

# HIGH ALTITUDE VEHICULAR EMISSION CONTROL PROGRAM

VOLUME VI-B. THE DATA BASE:  
EXHAUST CONTROL RETROFIT;  
MODIFIED TUNING SPECIFICATIONS;  
MANDATORY ENGINE MAINTENANCE



FINAL REPORT

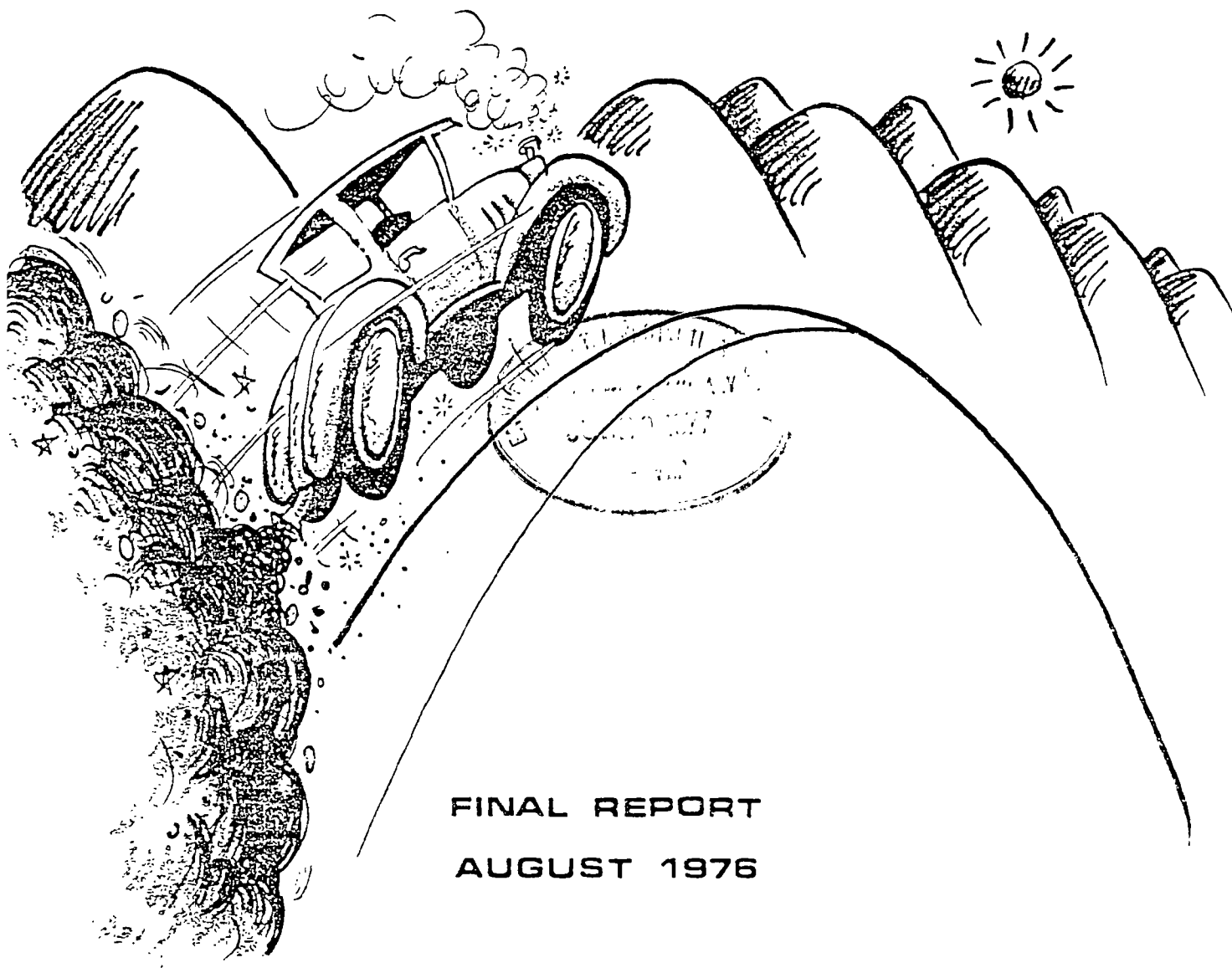
AUGUST 1976

PREPARED FOR:

STATE OF COLORADO  
DEPARTMENT OF HEALTH  
DENVER, COLORADO 80220

ATL / AUTOMOTIVE  
TESTING  
LABORATORIES

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## Disclaimer

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## PREFACE

This report is the sixth of a seven volume report prepared for the State of Colorado, Department of Health and the Environmental Protection Agency, Region VIII. The title of each respective volume is as follows:

|                   |                                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <u>Volume I</u>   | <u>Executive Summary</u>                                                                                                          |
| <u>Volume II</u>  | <u>Experimental Characterization of Idle Inspection, Exhaust Control Retrofit and Mandatory Engine Maintenance</u>                |
| <u>Volume III</u> | <u>Impact of Altitude on Vehicular Exhaust Emissions</u>                                                                          |
| <u>Volume IV</u>  | <u>Analysis of Experimental Results</u>                                                                                           |
| <u>Volume V</u>   | <u>Development of Techniques, Criteria, and Standards to Implement a Vehicle Inspection, Maintenance and Modification Program</u> |
| <u>Volume VI</u>  | <u>The Data Base</u>                                                                                                              |
| <u>Volume VII</u> | <u>Experimental Characterization of Vehicular Emission and Engine Deterioration</u>                                               |

These reports describe the design, conduct, findings and conclusions of study programs initiated in compliance with the requirements of the Colorado Department of Health and the Environmental Protection Agency. Volume VI is comprised of data from the experimental program designed to investigate several elements of emission control; idle emission inspection, exhaust control retrofit, modified engine tuning specifications and mandatory engine maintenance.

## SUMMARY

A sample of 300 of the 1964 through 1973 model-year vehicles was utilized to investigate the effectiveness and feasibility of several exhaust emission control strategies as might be applied in the Colorado environment. Four strategies were evaluated; idle emissions inspection in the private sector, exhaust control retrofit, modified engine tuning specifications, and mandatory engine maintenance.

A further sample of 153 of the 1964 through 1973 model-year vehicles was utilized to investigate the effects of altitude on vehicular emissions. The evaluation of altitude effects was accomplished by combining data from the 153 vehicle sample at 10,000 feet, the 300 vehicle sample at 5500 feet, and from a previously conducted test program at 600 feet incorporating a 170 vehicle sample.

An additional evaluation of deterioration of reductions achieved in the inspection and maintenance program as a function of time was undertaken. This was accomplished by retesting of vehicles used in the inspection and maintenance evaluation at known time intervals.

The various programs are fully discussed in other volumes of this report. The data base resulting from the testing program is presented in this volume as follows.

The idle inspection data base is presented in volume VI A. Volume VI B contains the data base for the retrofit evaluation, modified tuning specifications, and mandatory maintenance evaluation. The data bases of the altitude effects testing program and the deterioration study are in volume VI C.

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## 1. INTRODUCTION

Colorado was required to submit plans by April 15, 1973 that contain control strategies demonstrating how ambient air quality standards would be achieved by 1975 in the Metropolitan Denver Air Quality Control region. In response, the State of Colorado, Department of Health submitted the State of Colorado Air Pollution Control Transportation and Land Use Plan, dated May 14, 1973.

In order to deal with air pollution problems caused by mobile sources, the Colorado Legislature, in June of 1973, passed Senate Bill 393. The bill directed the Colorado Health Department to investigate several emission control strategies. Automotive Testing Laboratories, Inc. was selected by the state to provide testing and other consulting services to experimentally investigate and characterize the various emission control alternatives outlined.

Because of the scope of the program needed to fulfill the requirements of S. B. 393, the results are presented in a seven volume report. Volume VI is the data base generated in the testing program. The quantity of data resulting from the evaluation of the various control alternatives was such that volume VI was further divided into three sub-volumes.

This report, volume VI B, contains the data generated by the evaluation of retrofit devices, modified tuning specifications, and mandatory maintenance.

Other volumes of the report discuss the manner in which the vehicle sample was selected, the procedures used in testing the vehicles and collecting the data, and the test sequences followed by the various

cars. This volume will be limited to the methods of data reduction and the presentation of the reduced data.

## 2. DATA REDUCTION - EXHAUST CONTROL RETROFIT - CALIFORNIA APPROVED

A detailed account of the data accumulation process is contained in volume II of this report. To facilitate discussion of data treatment after collection, the steps of the test sequence are listed in Table 1.

1. Collect vehicle information (make, model, CID, etc.)
2. Maintenance to manufacturers specifications
3. Exhaust emission test with device installed
4. Driveability evaluation with device installed
5. Remove device
6. Exhaust emission test without device
7. Driveability evaluation without device

TABLE 1. Data Collection Procedure

The vehicle information collected at steps 1.& 2. required no data reduction.

### 2.1 EMISSION TESTS

The emission tests actually consisted of three separate tests, the 1975 Federal mass emission test, a key mode (Clayton Mfg. Co.) test, and an idle test.

#### 2.1.1 Federal Test Procedure

These tests were performed according to procedures stipulated in the Federal Register, Volume 38, Number 124, Part III dated June 28, 1973. The data is accumulated through the constant volume sampler technique in which diluted samples of the exhaust are collected in a bag. Simultaneously, samples of background air are also bagged. The

test is divided into three parts with the exhaust sample from each portion being collected in a separate bag. The first portion is designated the cold transient phase and lasts for the first 505 seconds of the driving schedule. The second is the cold stabilized phase and consists of the remaining 867 seconds of the driving schedule. The third portion is the hot transient phase and is a repeat of the cold transient phase. The data thus collected is then reduced to mass emissions using the equations shown in Appendix 1. The mass emissions of the exhaust can then be used to calculate fuel consumption with the equation developed in Appendix 2.

#### 2.1.2 Key Mode Test Procedure

Immediately following each mass emission test, a key mode test was performed using procedures outlined by Clayton Manufacturing Company of El Monte, California. The key mode test consists of measuring exhaust concentrations during idle, a loaded low cruise steady state mode, and a loaded high cruise steady state mode. The concentration of each emittant is corrected as specified in CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES FOR 1972-MODEL GASOLINE-POWERED MOTOR VEHICLES UNDER 6001 POUNDS GROSS VEHICLE WEIGHT, as amended on February 17, 1971, which specifies that exhaust gas concentrations shall be adjusted to a dry exhaust volume containing 14.5 mole percent carbon atoms by applying the following dilution factor.

$$14.5 / (\% \text{ CO}_2 + (0.5)\% \text{ CO} + (1.3 \times 6)\% \text{ HC})$$

This correction factor was not applied to the readings taken with garage type instruments.

#### 2.1.3 Idle Test Procedure

The idle test procedure is specified to be an exhaust concentration

measurement of hydrocarbons and carbon monoxide at curb idle and at 2500 engine RPM (transmission in neutral). These measurements were taken with the garage type instrument. The curb idle portion of this test was taken simultaneous with the idle portion of the key mode.

## 2.2 DRIVEABILITY EVALUATIONS

The driveability evaluation was performed to ascertain the performance of the vehicle from the standpoint of desirable and undesirable driveability characteristics. The characteristics examined in the course of the evaluation include stalling, hesitation, backfires, acceleration, idle quality, etc. The evaluation is performed using guidelines specified by the State of California Air Resources Board Driveability Procedure of 03/30/72 (See Appendix 7 of Volume I). The results required no data reduction and were used as reported.

### 3. EXHAUST CONTROL RETROFIT - CALIFORNIA APPROVED - DATA

The data presented on the following pages is divided into several sections which depend on the type of test performed or the type of information collected.

#### 3.1 HEADING

The heading contains a physical description of the vehicle and indicates which tests were conducted using the vehicle.

The first line identifies the vehicle by an assigned number.

The second line identifies the following items:

1. Vehicle model year
2. Vehicle make
3. Vehicle model
4. Engine displacement in cubic inches
5. The inertia weight used during vehicle testing
6. The tests performed using the vehicle. SEA LEVEL RETROFIT indicates that in addition to idle inspection the vehicle was also utilized in the sea level retrofit evaluation. COMBINATION RETROFIT indicates that after the idle inspection evaluation the vehicle was used to evaluate both sea level and altitude retrofits.

The third line identifies these items:

1. Number of cylinders
2. Number of carburetor venturis
3. Transmission type
4. Number of miles the vehicle has been driven
5. Whether or not the vehicle has an emission control system, an evaporative control system, or a PCV valve.

The fourth line identifies the type of retrofit device evaluated on the vehicle:

|           |                                  |
|-----------|----------------------------------|
| A.BLD     | - Air Bleed                      |
| CATALYTIC | - Catalytic Converter            |
| EGR       | - Exhaust Gas Recirculation      |
| FBPR      | - Float Bowl Pressure Regulation |
| PROPANE   | - Propane Conversion             |

- A.BLD+VSAD - Air Bleed and Vacuum Spark Advance Disconnect
- A.BLD+EGR - Air Bleed and Exhaust Gas Recirculation
- EGR+VSAD - Exhaust Gas Recirculation and Vacuum Spark Advance Disconnect

The fifth line gives the installed cost of the device including parts and labor.

### 3.2 WITH DEVICE

The vehicle first underwent a tune-up during which all adjustments were set to manufacturers specifications and defective parts (air cleaner, spark plugs, etc.) were replaced. The initial emission tests were then performed on the vehicle. The data from these tests are presented in this section. The first items are the test number, the date the test was conducted, and the ambient conditions at the time the test was performed. The ambient conditions are:

BAR: barometric pressure in inches of mercury.

DB: dry bulb temperature in degrees Fahrenheit.

WB: wet bulb temperature in degrees Fahrenheit.

REL. HUM: relative humidity in percent.

NOX COR: humidity correction factor applied to the oxides of nitrogen mass emissions.

#### 3.2.1 Federal Test Procedure

The first four lines of data are the results of the Federal Test Procedure. These results are reported as follows:

HC - Unburned hydrocarbons emitted during the test phase in grams per mile.

CO - Carbon monoxide emitted during the test phase in grams per mile.

CO<sub>2</sub> - Carbon dioxide emitted during the test phase in grams per mile.

NO<sub>x</sub> - Oxides of nitrogen emitted during the test phase in grams per mile nitrogen dioxide.

MPG - Fuel consumption in miles per gallon for the test phase.

### 3.2.2 Key Mode Test Procedure

The next three lines are data obtained during the key mode test.

These results are presented as follows:

HC - Concentration of unburned hydrocarbons in exhaust, reported in P.P.M. carbon.

CO - Concentration of carbon monoxide in exhaust, in mole percent.

NO<sub>x</sub> - Oxides of nitrogen in exhaust in P.P.M.

LHC\* - Concentration of unburned hydrocarbons in exhaust, in P.P.M. hexane.

SHC\* - Concentration of unburned hydrocarbons in exhaust, in P.P.M. hexane as measured with the garage type instrument.

SCO\* - Concentration of carbon monoxide in exhaust, reported in mole percent as measured with garage type instrument.

\* - LHC has a full scale value of 1600 P.P.M., SHC has a full scale value of 2000 P.P.M. and SCO has a full scale value of 10%. Off scale readings are reported as asterisks (\*\*\*\*).

### 3.2.3 Idle Test Procedure

Following the keymode test, the unburned hydrocarbons and carbon monoxide concentrations in the exhaust were measured with the engine operating at 2500 RPM and the transmission in neutral. The readings were taken with the garage type equipment and are reported on the last line as described in section 3.2.2.

### 3.2.4 Driveability Evaluation

The last line of the "With Device" test is the number of demerits resulting from the driveability evaluation.

### 3.3 WITHOUT DEVICE

Following the testing sequence with a retrofit device, the vehicle was returned to a baseline condition. A second emission test and driveability evaluation was then performed to determine the effectiveness of the device. These tests followed the format of testing conducted with the device installed. Data are presented as described in section 3.2.

#### 4. LISTING OF DATA

EXHAUST CONTROL RETROFIT - CALIFORNIA APPROVED

\*\*\* COLORADO-393 \*\*\*

VEHICLE 015

1967 FORD STAW 289 3500LBS      SEA LEVEL RETROFIT  
8CYL 2BBL      3 SPEED      060240 MILES      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: EGR+VSAD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0040

08/15/73    BAR:24.87    DB:71    WB:55  
REL.HUM:37.8%    NOX COR: .899

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.26 | 142.2 | 367.8 | 0.53 | 14.28 |     |     |      |
| COLD STABILIZED | 6.39  | 131.8 | 344.5 | 0.27 | 15.57 |     |     |      |
| HOT TRANSIENT   | 8.08  | 118.8 | 316.3 | 0.45 | 16.85 |     |     |      |
| 1975 COMPOSITE  | 7.67  | 130.4 | 341.6 | 0.37 | 15.61 |     |     |      |
| IDLE KEYMODE    | 3522  | 2.89  |       | 51   |       | 312 | 500 | 2.60 |
| LOW CR. KEYMODE | 3994  | 4.68  |       | 221  |       | 373 | 580 | 4.40 |
| HI. CR. KEYMODE | 4122  | 4.55  |       | 468  |       | 451 | 700 | 4.30 |
| 2500 RPM        |       |       |       |      |       |     | 280 | 4.30 |

DRIVEABILITY DEMERITS 118

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0055

08/16/73    BAR:24.76    DB:78    WB:57  
REL.HUM:28.6%    NOX COR: .891

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.24 | 95.7  | 363.6 | 1.26 | 16.40 |     |     |      |
| COLD STABILIZED | 9.62 | 109.0 | 351.6 | 0.60 | 16.10 |     |     |      |
| HOT TRANSIENT   | 8.13 | 120.7 | 281.1 | 0.71 | 17.94 |     |     |      |
| 1975 COMPOSITE  | 9.13 | 109.4 | 334.5 | 0.77 | 16.64 |     |     |      |
| IDLE KEYMODE    | 6671 | 6.53  |       | 34   |       | 605 | 800 | 6.00 |
| LOW CR. KEYMODE | 4644 | 4.05  |       | 675  |       | 562 | 900 | 4.20 |
| HI. CR. KEYMODE | 4162 | 4.24  |       | 570  |       | 478 | 720 | 4.50 |
| 2500 RPM        |      |       |       |      |       |     | 680 | 6.00 |

DRIVEABILITY DEMERITS 100

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 017

1966 CHEV BISC 283 4000LBS                      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC              051045 MILES                      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: EGR+VSAD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0051

08/16/73 BAR:24.75 DB:74 WB:54  
REL.HUM:28.0% NOX COR: .866

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 9.74 | 169.9 | 418.0 | 1.20 | 12.44 |      |     |      |
| COLD STABILIZED | 4.81 | 94.5  | 434.6 | 0.71 | 14.88 |      |     |      |
| HOT TRANSIENT   | 5.67 | 113.8 | 361.1 | 0.92 | 15.96 |      |     |      |
| 1975 COMPOSITE  | 6.08 | 115.7 | 410.7 | 0.87 | 14.56 |      |     |      |
| IDLE KEYMODE    | 6658 | 0.13  |       | 71   |       | 1001 | 800 | 0.25 |
| LOW CR. KEYMODE | 4692 | 4.97  |       | 408  |       | 569  | 680 | 4.80 |
| HI. CR. KEYMODE | 4678 | 4.28  |       | 1203 |       | 493  | 580 | 3.80 |
| 2500 RPM        |      |       |       |      |       |      | 380 | 3.50 |

DRIVEABILITY DEMERITS 61

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0074

08/18/73 BAR:24.77 DB:74 WB:61  
REL.HUM:49.8% NOX COR:1.001

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 14.13 | 209.6 | 376.1 | 1.51 | 11.87 |     |     |      |
| COLD STABILIZED | 7.39  | 154.1 | 368.7 | 0.92 | 14.04 |     |     |      |
| HOT TRANSIENT   | 7.82  | 141.8 | 330.5 | 1.34 | 15.40 |     |     |      |
| 1975 COMPOSITE  | 8.92  | 162.3 | 359.7 | 1.16 | 13.86 |     |     |      |
| IDLE KEYMODE    | 5677  | 5.98  |       | 56   |       | 641 | 710 | 5.00 |
| LOW CR. KEYMODE | 4618  | 5.00  |       | 685  |       | 499 | 720 | 4.90 |
| HI. CR. KEYMODE | 4323  | 5.29  |       | 812  |       | 464 | 515 | 5.20 |
| 2500 RPM        |       |       |       |      |       |     | 565 | 5.00 |

DRIVEABILITY DEMERITS 99

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 021

1967 PLYM BELV 273 3500LBS SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC 070009 MILES HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: EGR+VSAD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0054

08/16/73 BAR:24.76 DB:79 WB:60  
REL.HUM:34.8% NOX COR: .942

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.58 | 183.9 | 371.3 | 1.06 | 12.95 |     |     |      |
| COLD STABILIZED | 5.18 | 111.0 | 423.5 | 1.27 | 14.50 |     |     |      |
| HOT TRANSIENT   | 4.56 | 85.1  | 382.6 | 1.97 | 16.78 |     |     |      |
| 1975 COMPOSITE  | 5.72 | 119.1 | 401.2 | 1.42 | 14.69 |     |     |      |
| IDLE KEYMODE    | 3956 | 0.21  |       | 152  |       | 447 | 580 | 0.25 |
| LOW CR. KEYMODE | 3972 | 2.49  |       | 996  |       | 419 | 600 | 2.90 |
| HI. CR. KEYMODE | 4801 | 6.94  |       | 442  |       | 530 | 750 | 7.10 |
| 2500 RPM        |      |       |       |      |       |     | 340 | 3.20 |

DRIVEABILITY DEMERITS 8

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0069

08/17/73 BAR:24.77 DB:76 WB:60  
REL.HUM:41.5% NOX COR: .963

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.77 | 144.9 | 385.6 | 2.74 | 13.89 |     |     |      |
| COLD STABILIZED | 8.86 | 143.6 | 347.5 | 1.65 | 14.81 |     |     |      |
| HOT TRANSIENT   | 6.65 | 101.6 | 336.9 | 2.67 | 17.20 |     |     |      |
| 1975 COMPOSITE  | 8.23 | 132.2 | 352.5 | 2.16 | 15.19 |     |     |      |
| IDLE KEYMODE    | 5319 | 4.34  |       | 67   |       | 666 | 990 | 4.40 |
| LOW CR. KEYMODE | 4580 | 2.93  |       | 1577 |       | 537 | 800 | 3.20 |
| HI. CR. KEYMODE | 4681 | 5.89  |       | 716  |       | 486 | 690 | 5.90 |
| 2500 RPM        |      |       |       |      |       |     | 720 | 4.50 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 025

1966 DODG VAN 273 3500LBS SEA LEVEL RETROFIT  
8CYL 2BBL 3 SPEED 054740 MILES HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: EGR+VSAD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0052

08/16/73 BAR:24.76 DB:78 WB:56  
REL.HUM:25.9% NOX COR: .874

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO   |
|-----------------|-------|-------|-------|------|-------|------|------|-------|
| COLD TRANSIENT  | 14.12 | 199.0 | 282.2 | 0.52 | 13.92 |      |      |       |
| COLD STABILIZED | 8.96  | 154.5 | 325.9 | 0.48 | 14.91 |      |      |       |
| HOT TRANSIENT   | 9.84  | 209.6 | 244.3 | 0.23 | 14.73 |      |      |       |
| 1975 COMPOSITE  | 10.28 | 179.1 | 294.1 | 0.42 | 14.65 |      |      |       |
| IDLE KEYMODE    | 7496  | 0.54  |       | 77   |       | 1141 | 1700 | 0.60  |
| LOW CR. KEYMODE | 5726  | 9.85  |       | 128  |       | 539  | 680  | 9.40  |
| HI. CR. KEYMODE | 6417  | 12.33 |       | 104  |       | 679  | 940  | ***** |
| 2500 RPM        |       |       |       |      |       |      | 380  | 6.80  |

DRIVEABILITY DEMERITS 21

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0060

08/17/73 BAR:24.75 DB:75 WB:60  
REL.HUM:43.9% NOX COR: .971

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|------|-------|
| COLD TRANSIENT  | 14.40 | 195.8 | 280.1 | 1.17 | 14.06 |     |      |       |
| COLD STABILIZED | 18.79 | 200.6 | 296.1 | 0.78 | 13.28 |     |      |       |
| HOT TRANSIENT   | 14.61 | 208.9 | 236.1 | 0.73 | 14.58 |     |      |       |
| 1975 COMPOSITE  | 16.71 | 201.9 | 276.1 | 0.85 | 13.79 |     |      |       |
| IDLE KEYMODE    | 6508  | 1.63  |       | 63   |       | 952 | 1500 | 1.35  |
| LOW CR. KEYMODE | 6725  | 9.74  |       | 235  |       | 805 | 1000 | 9.40  |
| HI. CR. KEYMODE | 6499  | 12.20 |       | 171  |       | 722 | 1060 | 10.00 |
| 2500 RPM        |       |       |       |      |       |     | 2000 | 7.20  |

DRIVEABILITY DEMERITS 21

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 028

1964 OLDS STAW 330 4000LBS                      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC              089020 MILES                      HAS: NO EMC, NO EVC, NO PCV

RETROFIT TYPE: EGR+VSAD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0067

08/17/73 BAR:24.76 DB:71 WB:54  
REL.HUM:34.6% NOX COR: .884

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 7.10 | 182.8 | 491.0 | 1.10 | 11.12 |     |     |       |
| COLD STABILIZED | 5.77 | 178.5 | 515.8 | 0.49 | 10.93 |     |     |       |
| HOT TRANSIENT   | 5.20 | 160.7 | 444.6 | 0.60 | 12.48 |     |     |       |
| 1975 COMPOSITE  | 5.89 | 174.5 | 490.9 | 0.65 | 11.37 |     |     |       |
| IDLE KEYMODE    | 3290 | 1.47  |       | 112  |       | 332 | 450 | 1.60  |
| LOW CR. KEYMODE | 3876 | 6.39  |       | 173  |       | 353 | 480 | 6.20  |
| HI. CR. KEYMODE | 4709 | 10.24 |       | 134  |       | 438 | 500 | 10.00 |
| 2500 RPM        |      |       |       |      |       |     | 190 | 4.00  |

DRIVEABILITY DEMERITS 68

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0096

08/21/73 BAR:24.80 DB:76 WB:57  
REL.HUM:32.5% NOX COR: .903

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 9.72 | 184.0 | 484.7 | 1.16 | 11.07 |     |     |       |
| COLD STABILIZED | 7.18 | 190.7 | 440.5 | 0.59 | 11.67 |     |     |       |
| HOT TRANSIENT   | 6.25 | 161.4 | 401.6 | 0.90 | 13.19 |     |     |       |
| 1975 COMPOSITE  | 7.45 | 181.2 | 439.0 | 0.80 | 11.92 |     |     |       |
| IDLE KEYMODE    | 5507 | 6.32  |       | 52   |       | 666 | 890 | 6.20  |
| LOW CR. KEYMODE | 4535 | 5.84  |       | 280  |       | 483 | 560 | 5.80  |
| HI. CR. KEYMODE | 5153 | 10.19 |       | 116  |       | 490 | 560 | 10.00 |
| 2500 RPM        |      |       |       |      |       |     | 350 | 3.90  |

DRIVEABILITY DEMERITS 75

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 029

1965 PONT TEMP 326 3500LBS      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC      059585 MILES      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: EGR+VSAD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0053

08/16/73 BAR:24.76 DB:77 WB:57  
REL.HUM:30.5% NOX COR: .897

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|------|-------|
| COLD TRANSIENT  | 10.95 | 196.6 | 407.1 | 0.90 | 11.86 |     |      |       |
| COLD STABILIZED | 6.10  | 110.5 | 449.9 | 0.89 | 13.85 |     |      |       |
| HOT TRANSIENT   | 5.80  | 123.3 | 366.1 | 0.84 | 15.40 |     |      |       |
| 1975 COMPOSITE  | 7.03  | 132.1 | 417.7 | 0.88 | 13.76 |     |      |       |
| IDLE KEYMODE    | 4012  | 0.85  |       | 201  |       | 466 | 680  | 1.00  |
| LOW CR. KEYMODE | 4371  | 2.70  |       | 738  |       | 468 | 660  | 2.60  |
| HI. CR. KEYMODE | 6285  | 11.41 |       | 108  |       | 701 | 1100 | ***** |
| 2500 RPM        |       |       |       |      |       |     | 390  | 3.50  |

DRIVEABILITY DEMERITS 88

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0070

08/17/73 BAR:24.77 DB:71 WB:56  
REL.HUM:41.1% NOX COR: .918

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 9.76 | 174.6 | 371.7 | 1.07 | 13.16 |     |      |      |
| COLD STABILIZED | 8.23 | 160.4 | 385.1 | 0.73 | 13.43 |     |      |      |
| HOT TRANSIENT   | 7.28 | 144.1 | 339.0 | 1.08 | 15.13 |     |      |      |
| 1975 COMPOSITE  | 8.29 | 158.9 | 369.5 | 0.90 | 13.80 |     |      |      |
| IDLE KEYMODE    | 5785 | 6.45  |       | 74   |       | 699 | 1200 | 6.20 |
| LOW CR. KEYMODE | 4752 | 2.75  |       | 913  |       | 521 | 790  | 3.10 |
| HI. CR. KEYMODE | 5187 | 6.78  |       | 374  |       | 544 | 800  | 7.00 |
| 2500 RPM        |      |       |       |      |       |     | 650  | 4.80 |

DRIVEABILITY DEMERITS 15

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 035

1965 DODG POLA 383 4000LBS      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC      064463 MILES      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: EGR+VSAD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0081

08/20/73 BAR:24.94 DB:77 WB:61  
REL.HUM:42.0% NOX COR: .975

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 16.54 | 245.7 | 490.4 | 1.23 | 9.59  |     |     |      |
| COLD STABILIZED | 5.29  | 102.6 | 529.2 | 1.31 | 12.59 |     |     |      |
| HOT TRANSIENT   | 5.65  | 130.0 | 454.5 | 1.27 | 13.16 |     |     |      |
| 1975 COMPOSITE  | 7.74  | 140.2 | 500.4 | 1.28 | 11.96 |     |     |      |
| IDLE KEYMODE    | 2833  | 0.55  |       | 84   |       | 357 | 260 | 0.25 |
| LOW CR. KEYMODE | 3812  | 3.84  |       | 529  |       | 417 | 350 | 4.00 |
| HI. CR. KEYMODE | 4732  | 8.47  |       | 216  |       | 499 | 410 | 8.50 |
| 2500 RPM        |       |       |       |      |       |     | 190 | 5.50 |

DRIVEABILITY DEMERITS 42

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0046

08/16/73 BAR:24.78 DB:73 WB:55  
REL.HUM:33.1% NOX COR: .888

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.54 | 195.4 | 453.6 | 1.85 | 11.21 |     |     |      |
| COLD STABILIZED | 6.88  | 132.7 | 494.0 | 2.08 | 12.29 |     |     |      |
| HOT TRANSIENT   | 6.32  | 133.0 | 432.7 | 2.09 | 13.46 |     |     |      |
| 1975 COMPOSITE  | 7.49  | 145.9 | 468.5 | 2.03 | 12.35 |     |     |      |
| IDLE KEYMODE    | 4359  | 4.70  |       | 73   |       | 475 | 595 | 4.50 |
| LOW CR. KEYMODE | 4574  | 4.62  |       | 828  |       | 531 | 665 | 4.40 |
| HI. CR. KEYMODE | 4565  | 6.37  |       | 606  |       | 464 | 550 | 6.10 |
| 2500 RPM        |       |       |       |      |       |     | 270 | 2.30 |

DRIVEABILITY DEMERITS 45

AUTOMOTIVE TESTING LABORATORIES, INC.  
1900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 037

1964 FORD FAIR 289 3500LBS                      SEA LEVEL RETROFIT  
8CYL 2BBL      3.SPEED      052629 MILES                      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: EGR+VSAD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0091

08/21/73    BAR:24.86    DB:75    WB:58  
REL.HUM:37.6%    NOX COR: .927

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.68 | 95.4  | 434.7 | 1.52 | 14.55 |     |     |      |
| COLD STABILIZED | 8.05 | 129.2 | 423.6 | 0.83 | 13.66 |     |     |      |
| HOT TRANSIENT   | 6.59 | 80.1  | 402.6 | 1.36 | 16.21 |     |     |      |
| 1975 COMPOSITE  | 7.78 | 108.5 | 420.1 | 1.12 | 14.48 |     |     |      |
| IDLE KEYMODE    | 4473 | 3.78  |       | 37   |       | 440 | 275 | 3.50 |
| LOW CR. KEYMODE | 3617 | 2.94  |       | 268  |       | 350 | 205 | 2.80 |
| HI. CR. KEYMODE | 3728 | 2.94  |       | 728  |       | 405 | 260 | 2.90 |
| 2500 RPM        |      |       |       |      |       |     | 125 | 3.15 |

DRIVEABILITY DEMERITS 49

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0105

08/22/73    BAR:24.80    DB:76    WB:59  
REL.HUM:38.4%    NOX COR: .941

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 12.06 | 119.8 | 393.2 | 1.39 | 14.37 |     |      |      |
| COLD STABILIZED | 14.33 | 176.1 | 369.7 | 0.72 | 12.87 |     |      |      |
| HOT TRANSIENT   | 9.48  | 109.2 | 343.8 | 1.30 | 16.33 |     |      |      |
| 1975 COMPOSITE  | 12.51 | 145.8 | 367.4 | 1.02 | 14.00 |     |      |      |
| IDLE KEYMODE    | 17426 | 8.51  |       | 19   |       | 809 | 1020 | 9.20 |
| LOW CR. KEYMODE | 3696  | 3.38  |       | 265  |       | 383 | 300  | 3.50 |
| HI. CR. KEYMODE | 3693  | 3.23  |       | 980  |       | 414 | 350  | 3.30 |
| 2500 RPM        |       |       |       |      |       |     | 210  | 4.00 |

DRIVEABILITY DEMERITS 28

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 040

1968 FORD CUST 302 4000LBS      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC      019445 MILES      HAS: EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0075

08/18/73 BAR:24.78 DB:77 WB:60  
REL.HUM:39.1% NOX COR: .956

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.65 | 48.0 | 583.0 | 3.99 | 13.23 |     |     |      |
| COLD STABILIZED | 3.12 | 11.6 | 636.6 | 3.44 | 13.40 |     |     |      |
| HOT TRANSIENT   | 3.19 | 23.9 | 501.9 | 3.94 | 16.20 |     |     |      |
| 1975 COMPOSITE  | 3.46 | 22.6 | 588.0 | 3.69 | 14.04 |     |     |      |
| IDLE KEYMODE    | 2736 | 0.20 |       | 368  |       | 219 | 180 | 0.20 |
| LOW CR. KEYMODE | 2983 | 0.19 |       | 1756 |       | 245 | 255 | 0.23 |
| HI. CR. KEYMODE | 3086 | 0.86 |       | 2304 |       | 255 | 250 | 0.53 |
| 2500 RPM        |      |      |       |      |       |     | 95  | 0.21 |

DRIVEABILITY DEMERITS 109

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0084

08/20/73 BAR:24.90 DB:81 WB:65  
REL.HUM:44.5% NOX COR:1.046

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.28 | 71.4 | 522.6 | 3.53 | 13.67 |     |     |      |
| COLD STABILIZED | 3.56 | 42.0 | 577.8 | 3.05 | 13.59 |     |     |      |
| HOT TRANSIENT   | 3.45 | 40.4 | 487.6 | 3.93 | 15.84 |     |     |      |
| 1975 COMPOSITE  | 3.89 | 47.7 | 541.3 | 3.40 | 14.17 |     |     |      |
| IDLE KEYMODE    | 2854 | 1.91 |       | 269  |       | 296 | 180 | 1.80 |
| LOW CR. KEYMODE | 2965 | 0.49 |       | 1940 |       | 289 | 220 | 0.60 |
| HI. CR. KEYMODE | 2473 | 0.28 |       | 2566 |       | 204 | 130 | 0.30 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 1.20 |

DRIVEABILITY DEMERITS 74

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 041

1970 CHEV NOVA 230 3000LBS                      SEA LEVEL RETROFIT  
6CYL 2BBL    AUTOMATIC            030980 MILES                      HAS:    EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

|               |            |                                                                           |      |       |      |       |     |     |      |
|---------------|------------|---------------------------------------------------------------------------|------|-------|------|-------|-----|-----|------|
| TEST NO:C0076 |            | 08/18/73    BAR:24.78    DB:77    WB:59<br>REL.HUM:36.2%    NOX COR: .935 |      |       |      |       |     |     |      |
|               |            | HC                                                                        | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
| COLD          | TRANSIENT  | 4.27                                                                      | 39.7 | 475.8 | 4.35 | 16.14 |     |     |      |
| COLD          | STABILIZED | 2.42                                                                      | 7.0  | 507.3 | 3.14 | 16.93 |     |     |      |
| HOT           | TRANSIENT  | 2.79                                                                      | 18.1 | 412.7 | 4.27 | 19.80 |     |     |      |
| 1975          | COMPOSITE  | 2.91                                                                      | 16.9 | 474.5 | 3.70 | 17.46 |     |     |      |
| IDLE          | KEYMODE    | 3048                                                                      | 0.21 |       | 361  |       | 296 | 420 | 0.27 |
| LOW CR.       | KEYMODE    | 2639                                                                      | 0.23 |       | 2160 |       | 210 | 235 | 0.23 |
| HI. CR.       | KEYMODE    | 3304                                                                      | 2.26 |       | 2052 |       | 285 | 365 | 2.30 |
| 2500          | RPM        |                                                                           |      |       |      |       |     | 58  | 0.18 |

DRIVEABILITY DEMERITS    80

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

|               |            |                                                                           |      |       |      |       |     |     |      |
|---------------|------------|---------------------------------------------------------------------------|------|-------|------|-------|-----|-----|------|
| TEST NO:C0095 |            | 08/21/73    BAR:24.81    DB:78    WB:60<br>REL.HUM:36.9%    NOX COR: .948 |      |       |      |       |     |     |      |
|               |            | HC                                                                        | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
| COLD          | TRANSIENT  | 5.53                                                                      | 76.9 | 449.7 | 3.26 | 15.15 |     |     |      |
| COLD          | STABILIZED | 3.62                                                                      | 29.1 | 466.9 | 2.68 | 16.99 |     |     |      |
| HOT           | TRANSIENT  | 3.27                                                                      | 34.8 | 376.2 | 3.64 | 20.18 |     |     |      |
| 1975          | COMPOSITE  | 3.92                                                                      | 40.7 | 438.1 | 3.07 | 17.31 |     |     |      |
| IDLE          | KEYMODE    | 4723                                                                      | 2.26 |       | 104  |       | 570 | 760 | 2.40 |
| LOW CR.       | KEYMODE    | 4133                                                                      | 1.34 |       | 1478 |       | 443 | 520 | 1.50 |
| HI. CR.       | KEYMODE    | 4078                                                                      | 3.36 |       | 1200 |       | 392 | 420 | 3.50 |
| 2500          | RPM        |                                                                           |      |       |      |       |     | 95  | 0.25 |

DRIVEABILITY DEMERITS    77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 042

1969 PLYM BELV 318 3500LBS      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC      039269 MILES      HAS: EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0092

08/21/73 BAR:24.85 DB:75 WB:58  
REL.HUM:37.7% NOX COR: .928

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.80 | 47.9 | 468.1 | 4.29 | 15.94 |     |     |      |
| COLD STABILIZED | 3.71 | 8.7  | 495.9 | 4.21 | 17.08 |     |     |      |
| HOT TRANSIENT   | 3.85 | 21.6 | 433.0 | 4.99 | 18.58 |     |     |      |
| 1975 COMPOSITE  | 3.98 | 20.5 | 472.6 | 4.44 | 17.21 |     |     |      |
| IDLE KEYMODE    | 3041 | 0.34 |       | 140  |       | 339 | 218 | 0.15 |
| LOW CR. KEYMODE | 3790 | 0.31 |       | 2566 |       | 394 | 270 | 0.33 |
| HI. CR. KEYMODE | 3588 | 1.96 |       | 1865 |       | 341 | 230 | 1.90 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 0.44 |

DRIVEABILITY DEMERITS 17

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0106

08/22/73 BAR:24.80 DB:75 WB:59  
REL.HUM:40.3% NOX COR: .948

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.48 | 83.3 | 387.0 | 3.24 | 16.64 |     |     |      |
| COLD STABILIZED | 4.78 | 63.9 | 402.0 | 3.41 | 17.21 |     |     |      |
| HOT TRANSIENT   | 4.26 | 48.7 | 360.6 | 3.88 | 19.76 |     |     |      |
| 1975 COMPOSITE  | 4.78 | 63.8 | 387.4 | 3.50 | 17.72 |     |     |      |
| IDLE KEYMODE    | 4675 | 5.69 |       | 64   |       | 507 | 470 | 5.70 |
| LOW CR. KEYMODE | 3850 | 0.86 |       | 2571 |       | 439 | 360 | 0.90 |
| HI. CR. KEYMODE | 3381 | 2.28 |       | 1687 |       | 324 | 240 | 2.40 |
| 2500 RPM        |      |      |       |      |       |     | 275 | 2.40 |

DRIVEABILITY DEMERITS 38

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 043

1971 FORD MAVE 170 2750LBS      SEA LEVEL RETROFIT  
6CYL 2BBL      3 SPEED      020583 MILES      HAS: EMC, EVC, PCV

RETROFIT TYPE: A.BLD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0079

08/20/73    BAR:24.99    DB:74    WB:59  
REL.HUM:43.1%    NOX COR: .952

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.22 | 22.2 | 314.5 | 4.33 | 24.55 |     |     |      |
| COLD STABILIZED | 2.97 | 15.5 | 325.2 | 2.79 | 24.81 |     |     |      |
| HOT TRANSIENT   | 3.70 | 22.1 | 288.8 | 4.35 | 26.57 |     |     |      |
| 1975 COMPOSITE  | 3.43 | 18.7 | 312.9 | 3.55 | 25.22 |     |     |      |
| IDLE KEYMODE    | 2437 | 0.94 |       | 98   |       | 225 | 170 | 0.84 |
| LOW CR. KEYMODE | 3915 | 0.16 |       | 2750 |       | 432 | 350 | 0.23 |
| HI. CR. KEYMODE | 4097 | 1.25 |       | 2850 |       | 499 | 455 | 1.35 |
| 2500 RPM        |      |      |       |      |       |     | 200 | 0.32 |

DRIVEABILITY DEMERITS 17

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0093

08/21/73    BAR:24.85    DB:76    WB:59  
REL.HUM:38.4%    NOX COR: .941

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.62 | 63.9 | 293.3 | 2.66 | 21.64 |     |     |      |
| COLD STABILIZED | 4.48 | 63.0 | 297.8 | 2.10 | 21.67 |     |     |      |
| HOT TRANSIENT   | 4.13 | 56.7 | 266.2 | 2.50 | 24.18 |     |     |      |
| 1975 COMPOSITE  | 4.62 | 61.4 | 288.1 | 2.33 | 22.31 |     |     |      |
| IDLE KEYMODE    | 3554 | 3.43 |       | 69   |       | 311 | 400 | 3.20 |
| LOW CR. KEYMODE | 3527 | 0.96 |       | 2539 |       | 383 | 510 | 0.90 |
| HI. CR. KEYMODE | 4626 | 6.18 |       | 909  |       | 573 | 810 | 6.00 |
| 2500 RPM        |      |      |       |      |       |     | 600 | 0.40 |

DRIVEABILITY DEMERITS 36

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 045

1972 DODG DART 225 3000LBS

SEA LEVEL RETROFIT

6CYL 1BBL AUTOMATIC

005414 MILES

HAS: EMC, EVC, PCV

RETROFIT TYPE: A.BLD

INSTALLED COST: 25.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0098

08/22/73 BAR: 24.80 DB: 70 WB: 58  
REL. HUM: 50.3% NON COR: .953

|                 | HC   | CO    | CO2   | NON  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.49 | 136.3 | 413.4 | 3.62 | 13.88 |     |     |      |
| COLD STABILIZED | 2.68 | 25.7  | 434.8 | 5.65 | 18.41 |     |     |      |
| HOT TRANSIENT   | 3.46 | 91.5  | 385.9 | 4.78 | 16.47 |     |     |      |
| 1975 COMPOSITE  | 3.27 | 67.1  | 416.8 | 5.04 | 16.73 |     |     |      |
| IDLE KEYMODE    | 3031 | 1.87  |       | 125  |       | 347 | 275 | 1.60 |
| LOW CR. KEYMODE | 3667 | 7.92  |       | 402  |       | 394 | 355 | 7.92 |
| HI. CR. KEYMODE | 3764 | 9.43  |       | 303  |       | 392 | 350 | 9.10 |
| 2500 RPM        |      |       |       |      |       |     | 110 | 0.35 |

DRIVEABILITY DEMERITS 67

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0118

08/23/73 BAR: 24.81 DB: 75 WB: 59  
REL. HUM: 40.3% NON COR: .948

|                 | HC   | CO    | CO2   | NON  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.42 | 141.3 | 343.7 | 3.03 | 15.23 |     |     |      |
| COLD STABILIZED | 3.20 | 66.9  | 363.4 | 3.20 | 18.61 |     |     |      |
| HOT TRANSIENT   | 3.05 | 81.6  | 308.5 | 3.10 | 19.95 |     |     |      |
| 1975 COMPOSITE  | 3.62 | 86.5  | 344.1 | 3.14 | 18.12 |     |     |      |
| IDLE KEYMODE    | 4122 | 2.57  |       | 90   |       | 553 | 600 | 2.40 |
| LOW CR. KEYMODE | 3084 | 3.42  |       | 1616 |       | 399 | 340 | 3.50 |
| HI. CR. KEYMODE | 3921 | 9.85  |       | 283  |       | 470 | 420 | 9.50 |
| 2500 RPM        |      |       |       |      |       |     | 240 | 3.00 |

DRIVEABILITY DEMERITS 27

AUTOMOTIVE TESTING LABORATORIES, INC.  
19999 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 098

1972 FORD MAVE 302 3000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 026575 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: CATALYTIC

INSTALLED COST:155.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0230

09/06/73 BAR:24.87 DB:69 WB:55  
REL.HUM:43.0% NOX COR: .912

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 1.81 | 3.8  | 554.6 | 2.40 | 15.73 |     |     |      |
| COLD STABILIZED | 0.68 | 1.1  | 623.0 | 1.43 | 14.21 |     |     |      |
| HOT TRANSIENT   | 1.38 | 4.0  | 489.1 | 2.03 | 17.82 |     |     |      |
| 1975 COMPOSITE  | 1.11 | 2.5  | 571.5 | 1.80 | 15.38 |     |     |      |
| IDLE KEYMODE    | 899  | 0.03 |       | 93   |       | 147 | 55  | 0.05 |
| LOW CR. KEYMODE | 1084 | 0.01 |       | 884  |       | 219 | 100 | 0.03 |
| HI. CR. KEYMODE | 1247 | 0.03 |       | 2680 |       | 232 | 120 | 0.06 |
| 2500 RPM        |      |      |       |      |       |     | 30  | 0.07 |

DRIVEABILITY DEMERITS 1

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0251

09/07/73 BAR:24.69 DB:80 WB:60  
REL.HUM:32.8% NOX COR: .936

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.84 | 80.3 | 495.6 | 2.12 | 13.91 |     |     |      |
| COLD STABILIZED | 3.88 | 64.0 | 573.7 | 1.40 | 12.97 |     |     |      |
| HOT TRANSIENT   | 4.82 | 56.4 | 452.2 | 1.92 | 16.01 |     |     |      |
| 1975 COMPOSITE  | 4.55 | 65.3 | 523.7 | 1.69 | 13.90 |     |     |      |
| IDLE KEYMODE    | 4038 | 3.92 |       | 83   |       | 487 | 270 | 3.40 |
| LOW CR. KEYMODE | 3339 | 1.53 |       | 545  |       | 344 | 225 | 1.30 |
| HI. CR. KEYMODE | 4068 | 2.28 |       | 2030 |       | 484 | 300 | 2.30 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 2.00 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 099

1971 CHEV BLAZ 350 4000LBS COMBINATION RETROFIT  
8CYL 4BBL 4 SPEED 019987 MILES HAS: EMC, NO EVC, NO PCV

RETROFIT TYPE: CATALYTIC

INSTALLED COST:155.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0231

09/06/73 BAR:24.87 DB:70 WB:55  
REL.HUM:40.3% NOX COR: .905

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 2.71 | 12.7 | 643.5 | 2.45 | 13.25 |     |     |      |
| COLD STABILIZED | 1.50 | 4.5  | 694.7 | 1.83 | 12.61 |     |     |      |
| HOT TRANSIENT   | 1.44 | 9.0  | 547.3 | 2.51 | 15.74 |     |     |      |
| 1975 COMPOSITE  | 1.74 | 7.4  | 643.1 | 2.15 | 13.49 |     |     |      |
| IDLE KEYMODE    | 717  | 0.04 |       | 57   |       | 139 | 35  | 0.05 |
| LOW CR. KEYMODE | 398  | 0.03 |       | 685  |       | 125 | 35  | 0.05 |
| HI. CR. KEYMODE | 776  | 0.15 |       | 1429 |       | 140 | 48  | 0.18 |
| 2500 RPM        |      |      |       |      |       |     | 22  | 0.09 |

DRIVEABILITY DEMERITS 11

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0252

09/07/73 BAR:24.60 DB:76 WB:56  
REL.HUM:29.8% NOX COR: .888

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.20 | 82.2 | 508.2 | 2.30 | 13.49 |     |     |      |
| COLD STABILIZED | 5.23 | 56.1 | 543.5 | 1.51 | 13.74 |     |     |      |
| HOT TRANSIENT   | 4.60 | 55.6 | 456.2 | 2.11 | 15.95 |     |     |      |
| 1975 COMPOSITE  | 5.47 | 61.4 | 511.9 | 1.84 | 14.24 |     |     |      |
| IDLE KEYMODE    | 3030 | 2.89 |       | 57   |       | 255 | 140 | 2.75 |
| LOW CR. KEYMODE | 1644 | 0.17 |       | 703  |       | 194 | 85  | 0.20 |
| HI. CR. KEYMODE | 1786 | 0.76 |       | 1525 |       | 193 | 80  | 0.70 |
| 2500 RPM        |      |      |       |      |       |     | 55  | 0.50 |

DRIVEABILITY DEMERITS 61

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 100

1969 FORD MUST 302 3000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 047190 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: CATALYTIC

INSTALLED COST:155.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0243

09/07/73 BAR:24.75 DB:71 WB:57  
REL.HUM:44.5% NOX COR: .937

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 2.83 | 19.7 | 609.3 | 3.82 | 13.72 |     |     |      |
| COLD STABILIZED | 1.24 | 1.4  | 552.7 | 3.04 | 15.94 |     |     |      |
| HOT TRANSIENT   | 1.48 | 4.8  | 462.9 | 4.41 | 18.74 |     |     |      |
| 1975 COMPOSITE  | 1.64 | 6.2  | 539.6 | 3.58 | 16.06 |     |     |      |
| IDLE KEYMODE    | 914  | 0.02 |       | 96   |       | 196 | 85  | 0.05 |
| LOW CR. KEYMODE | 1304 | 0.02 |       | 2503 |       | 261 | 125 | 0.03 |
| HI. CR. KEYMODE | 1205 | 0.03 |       | 3079 |       | 201 | 88  | 0.03 |
| 2500 RPM        |      |      |       |      |       |     | 39  | 0.07 |

DRIVEABILITY DEMERITS 13

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0259

09/08/73 BAR:24.58 DB:72 WB:58  
REL.HUM:45.3% NOX COR: .952

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 7.54 | 102.4 | 486.7 | 3.27 | 13.26 |      |     |      |
| COLD STABILIZED | 5.76 | 56.6  | 495.6 | 3.21 | 14.77 |      |     |      |
| HOT TRANSIENT   | 4.75 | 37.0  | 430.5 | 4.24 | 17.68 |      |     |      |
| 1975 COMPOSITE  | 5.85 | 60.7  | 475.7 | 3.51 | 15.11 |      |     |      |
| IDLE KEYMODE    | 6622 | 1.70  |       | 137  |       | 1178 | 900 | 1.70 |
| LOW CR. KEYMODE | 4075 | 0.69  |       | 2365 |       | 541  | 340 | 0.65 |
| HI. CR. KEYMODE | 3386 | 0.73  |       | 2571 |       | 387  | 230 | 0.70 |
| 2500 RPM        |      |       |       |      |       |      | 210 | 1.60 |

DRIVEABILITY DEMERITS 8

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 104

1968 PLYM BELV 273 3500LBS                      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC              058630 MILES                      HAS: EMC, NO EVC, PCV

RETROFIT TYPE: CATALYTIC

INSTALLED COST:155.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0258

09/07/73 BAR:24.58 DB:74 WB:56  
REL.HUM:34.1% NOX COR: .901

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.13 | 94.1 | 607.7 | 0.76 | 11.59 |     |     |      |
| COLD STABILIZED | 0.66 | 7.1  | 641.4 | 1.41 | 13.60 |     |     |      |
| HOT TRANSIENT   | 1.66 | 50.2 | 575.1 | 1.28 | 13.51 |     |     |      |
| 1975 COMPOSITE  | 1.66 | 37.3 | 615.9 | 1.23 | 13.10 |     |     |      |
| IDLE KEYMODE    | 934  | 0.05 |       | 57   |       | 154 | 35  | 0.05 |
| LOW CR. KEYMODE | 774  | 0.12 |       | 745  |       | 152 | 53  | 0.08 |
| HI. CR. KEYMODE | 3892 | 8.01 |       | 96   |       | 376 | 220 | 8.10 |
| 2500 RPM        |      |      |       |      |       |     | 40  | 0.16 |

DRIVEABILITY DEMERITS 53

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0270

09/10/73 BAR:24.82 DB:71 WB:62  
REL.HUM:62.4% NOX COR:1.050

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.99 | 212.0 | 420.5 | 0.95 | 11.30 |     |     |      |
| COLD STABILIZED | 5.26  | 108.4 | 422.2 | 1.53 | 14.62 |     |     |      |
| HOT TRANSIENT   | 4.80  | 130.1 | 382.3 | 1.78 | 14.80 |     |     |      |
| 1975 COMPOSITE  | 6.33  | 136.1 | 410.8 | 1.48 | 13.82 |     |     |      |
| IDLE KEYMODE    | 4066  | 4.24  |       | 86   |       | 801 | 290 | 4.30 |
| LOW CR. KEYMODE | 3937  | 3.60  |       | 1006 |       | 745 | 280 | 3.40 |
| HI. CR. KEYMODE | 4699  | 8.37  |       | 272  |       | 755 | 310 | 8.40 |
| 2500 RPM        |       |       |       |      |       |     | 190 | 4.40 |

DRIVEABILITY DEMERITS 127

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 138

1973 DODG TRUC 360 4000LBS                      SEA LEVEL RETROFIT ONLY  
8CYL 2BBL AUTOMATIC              001000 MILES                      HAS: EMC, EVC, PCV

RETROFIT TYPE: PROPANE

INSTALLED COST:650.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0967

11/14/73 BAR:24.43 DB:72 WB:51  
REL.HUM:23.6% NOX COR: .837

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 1.63 | 14.3 | 587.3 | 3.47 | 8.70  |     |     |      |
| COLD STABILIZED | 1.43 | 17.6 | 551.4 | 2.59 | 15.26 |     |     |      |
| HOT TRANSIENT   | 1.00 | 9.2  | 517.0 | 2.98 | 16.66 |     |     |      |
| 1975 COMPOSITE  | 1.35 | 14.6 | 549.3 | 2.88 | 15.45 |     |     |      |
| IDLE KEYMODE    | 2184 | 2.83 |       | 93   |       | 285 | 185 | 2.25 |
| LOW CR. KEYMODE | 815  | 0.18 |       | 1820 |       | 149 | 50  | 0.12 |
| HI. CR. KEYMODE | 489  | 0.22 |       | 2152 |       | 141 | 30  | 0.16 |
| 2500 RPM        |      |      |       |      |       |     | 20  | 0.10 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0312

09/13/73 BAR:24.69 DB:68 WB:55  
REL.HUM:46.0% NOX COR: .920

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 9.22 | 133.3 | 567.2 | 2.71 | 11.05 |      |      |      |
| COLD STABILIZED | 6.67 | 106.6 | 532.6 | 3.64 | 12.35 |      |      |      |
| HOT TRANSIENT   | 7.31 | 101.2 | 481.4 | 3.27 | 13.42 |      |      |      |
| 1975 COMPOSITE  | 7.38 | 110.7 | 525.6 | 3.34 | 12.32 |      |      |      |
| IDLE KEYMODE    | 7642 | 7.26  |       | 33   |       | 867  | 490  | 7.00 |
| LOW CR. KEYMODE | 5378 | 1.66  |       | 1652 |       | 1048 | 600  | 1.80 |
| HI. CR. KEYMODE | 3170 | 3.60  |       | 1007 |       | 538  | 170  | 3.60 |
| 2500 RPM        |      |       |       |      |       |      | 1500 | 2.20 |

DRIVEABILITY DEMERITS 57

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 139

1970 FORD TORI 250 3500LBS COMBINATION RETROFIT  
6CYL 1BBL 3 SPEED 031895 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+EGR

INSTALLED COST: 36.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0355

09/18/73 BAR:24.80 DB:72 WB:57  
REL.HUM:41.9% NOX COR: .929

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.22 | 77.1 | 412.0 | 1.55 | 16.29 |     |     |      |
| COLD STABILIZED | 2.89 | 37.2 | 512.6 | 1.35 | 15.35 |     |     |      |
| HOT TRANSIENT   | 4.35 | 49.7 | 409.2 | 1.98 | 17.77 |     |     |      |
| 1975 COMPOSITE  | 3.57 | 49.0 | 462.9 | 1.57 | 16.16 |     |     |      |
| IDLE KEYMODE    | 1357 | 0.97 |       | 114  |       | 276 | 120 | 1.20 |
| LOW CR. KEYMODE | 2716 | 1.54 |       | 597  |       | 397 | 215 | 1.70 |
| HI. CR. KEYMODE | 2672 | 2.08 |       | 1418 |       | 407 | 230 | 2.20 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 1.80 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0375

09/19/73 BAR:24.69 DB:80 WB:54  
REL.HUM:17.7% NOX COR: .833

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.94 | 111.6 | 373.6 | 2.17 | 15.69 |     |     |      |
| COLD STABILIZED | 4.20 | 96.6  | 410.9 | 1.57 | 15.46 |     |     |      |
| HOT TRANSIENT   | 4.50 | 88.3  | 343.2 | 2.10 | 17.95 |     |     |      |
| 1975 COMPOSITE  | 4.65 | 97.4  | 384.3 | 1.84 | 16.13 |     |     |      |
| IDLE KEYMODE    | 3984 | 6.41  |       | 79   |       | 268 | 190 | 6.10 |
| LOW CR. KEYMODE | 3776 | 3.84  |       | 1021 |       | 385 | 290 | 3.90 |
| HI. CR. KEYMODE | 3444 | 2.49  |       | 1896 |       | 385 | 260 | 2.50 |
| 2500 RPM        |      |       |       |      |       |     | 235 | 4.40 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 140

1966 OLDS DYNA 425 4500LBS      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC      048553 MILES      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+EGR

INSTALLED COST: 36.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0356

09/18/73 BAR:24.80 DB:81 WB:60  
REL.HUM:30.8% NOX COR: .928

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.61 | 222.5 | 608.0 | 1.64 | 8.98  |     |     |      |
| COLD STABILIZED | 4.63  | 114.9 | 659.5 | 0.90 | 10.42 |     |     |      |
| HOT TRANSIENT   | 4.82  | 128.4 | 531.0 | 1.67 | 11.91 |     |     |      |
| 1975 COMPOSITE  | 5.94  | 141.2 | 613.1 | 1.27 | 10.44 |     |     |      |
| IDLE KEYMODE    | 2431  | 1.35  |       | 70   |       | 280 | 220 | 1.50 |
| LOW CR. KEYMODE | 3090  | 1.48  |       | 1083 |       | 414 | 340 | 1.80 |
| HI. CR. KEYMODE | 3610  | 5.72  |       | 504  |       | 450 | 350 | 6.30 |
| 2500 RPM        |       |       |       |      |       |     | 180 | 2.40 |

DRIVEABILITY DEMERITS 98

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0374

09/19/73 BAR:24.68 DB:79 WB:56  
REL.HUM:24.2% NOX COR: .869

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.20 | 207.6 | 549.3 | 2.50 | 9.78  |     |     |      |
| COLD STABILIZED | 9.76  | 151.3 | 501.0 | 1.83 | 11.57 |     |     |      |
| HOT TRANSIENT   | 7.52  | 141.6 | 445.2 | 2.41 | 12.88 |     |     |      |
| 1975 COMPOSITE  | 9.44  | 160.4 | 495.7 | 2.13 | 11.46 |     |     |      |
| IDLE KEYMODE    | 8110  | 8.14  |       | 30   |       | 890 | 810 | 7.40 |
| LOW CR. KEYMODE | 4078  | 3.23  |       | 1218 |       | 556 | 405 | 3.30 |
| HI. CR. KEYMODE | 4228  | 6.47  |       | 672  |       | 541 | 370 | 6.60 |
| 2500 RPM        |       |       |       |      |       |     | 900 | 5.20 |

DRIVEABILITY DEMERITS 11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 143

1966 FORD MUST 289 3000LBS                      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC              038659 MILES                      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+EGR

INSTALLED COST: 36.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0383

09/19/73    BAR:24.68    DB:75    WB:53  
REL.HUM:23.4%    NOX COR: .846

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.80 | 66.6 | 502.9 | 2.91 | 14.08 |     |     |      |
| COLD STABILIZED | 5.34 | 37.1 | 504.1 | 1.96 | 15.37 |     |     |      |
| HOT TRANSIENT   | 5.34 | 29.5 | 456.2 | 3.10 | 17.14 |     |     |      |
| 1975 COMPOSITE  | 5.86 | 41.2 | 490.6 | 2.48 | 15.52 |     |     |      |
| IDLE KEYMODE    | 3403 | 0.79 |       | 167  |       | 381 | 390 | 0.80 |
| LOW CR. KEYMODE | 4429 | 0.18 |       | 1789 |       | 540 | 480 | 0.22 |
| HI. CR. KEYMODE | 4020 | 1.19 |       | 1847 |       | 447 | 385 | 1.30 |
| 2500 RPM        |      |      |       |      |       |     | 220 | 0.35 |

DRIVEABILITY DEMERITS 5

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0409

09/21/73    BAR:24.65    DB:73    WB:52  
REL.HUM:24.4%    NOX COR: .843

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.82 | 106.6 | 447.4 | 3.50 | 13.72 |     |     |      |
| COLD STABILIZED | 7.73  | 74.0  | 418.6 | 3.62 | 15.92 |     |     |      |
| HOT TRANSIENT   | 5.82  | 46.1  | 398.7 | 4.20 | 18.19 |     |     |      |
| 1975 COMPOSITE  | 7.85  | 73.1  | 419.1 | 3.76 | 15.94 |     |     |      |
| IDLE KEYMODE    | 4028  | 2.54  |       | 72   |       | 508 | 355 | 2.50 |
| LOW CR. KEYMODE | 4675  | 0.76  |       | 2436 |       | 633 | 420 | 0.70 |
| HI. CR. KEYMODE | 3979  | 1.23  |       | 2158 |       | 471 | 290 | 1.20 |
| 2500 RPM        |       |       |       |      |       |     | 220 | 1.70 |

DRIVEABILITY DEMERITS 12

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\*. COLORADO-393 \*\*\*

VEHICLE 144

1972 FORD GALA 400 4000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 012721 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: EGR

INSTALLED COST: 32.15

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0420

09/24/73 BAR:24.59 DB:73 WB:56  
REL.HUM:36.3% NOX COR: .907

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.73 | 62.5 | 710.9 | 2.47 | 10.81 |     |     |      |
| COLD STABILIZED | 2.75 | 45.2 | 766.5 | 1.56 | 10.52 |     |     |      |
| HOT TRANSIENT   | 3.68 | 39.9 | 605.8 | 2.42 | 13.09 |     |     |      |
| 1975 COMPOSITE  | 3.42 | 47.3 | 710.3 | 1.99 | 11.20 |     |     |      |
| IDLE KEYMODE    | 1989 | 0.78 |       | 168  |       | 292 | 130 | 0.90 |
| LOW CR. KEYMODE | 1942 | 0.61 |       | 719  |       | 315 | 125 | 0.55 |
| HI. CR. KEYMODE | 2069 | 0.80 |       | 1562 |       | 304 | 120 | 0.80 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 1.25 |

DRIVEABILITY DEMERITS 8

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0393

09/20/73 BAR:24.58 DB:78 WB:56  
REL.HUM:26.1% NOX COR: .876

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.10 | 43.4 | 641.1 | 4.34 | 12.33 |     |     |      |
| COLD STABILIZED | 3.40 | 33.8 | 680.2 | 3.36 | 11.97 |     |     |      |
| HOT TRANSIENT   | 4.09 | 36.9 | 542.1 | 4.24 | 14.53 |     |     |      |
| 1975 COMPOSITE  | 3.74 | 36.7 | 633.7 | 3.81 | 12.67 |     |     |      |
| IDLE KEYMODE    | 2204 | 1.35 |       | 162  |       | 271 | 160 | 1.30 |
| LOW CR. KEYMODE | 2700 | 0.81 |       | 1708 |       | 321 | 185 | 0.80 |
| HI. CR. KEYMODE | 2382 | 0.88 |       | 2332 |       | 285 | 145 | 0.93 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 1.20 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 146

1969 OLDS DELT 455 4000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 061594 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+EGR

INSTALLED COST: 36.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0373

09/19/73 BAR:24.68 DB:80 WB:54  
REL.HUM:17.7% NOX COR: .823

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.76 | 76.9 | 614.7 | 2.49 | 11.81 |     |     |      |
| COLD STABILIZED | 3.32 | 51.4 | 646.2 | 1.37 | 12.08 |     |     |      |
| HOT TRANSIENT   | 3.60 | 44.9 | 525.2 | 2.11 | 14.67 |     |     |      |
| 1975 COMPOSITE  | 3.91 | 54.9 | 606.0 | 1.81 | 12.64 |     |     |      |
| IDLE KEYMODE    | 4086 | 5.02 |       | 67   |       | 466 | 290 | 4.90 |
| LOW CR. KEYMODE | 3007 | 0.78 |       | 1097 |       | 424 | 225 | 0.80 |
| HI. CR. KEYMODE | 3292 | 3.25 |       | 1312 |       | 436 | 220 | 3.30 |
| 2500 RPM        |      |      |       |      |       |     | 300 | 3.50 |

DRIVEABILITY DEMERITS 18

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0392

09/20/73 BAR:24.68 DB:78 WB:56  
REL.HUM:26.0% NOX COR: .875

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.53 | 155.2 | 536.1 | 3.08 | 11.08 |     |     |      |
| COLD STABILIZED | 5.33 | 131.1 | 563.7 | 2.46 | 11.32 |     |     |      |
| HOT TRANSIENT   | 4.54 | 99.7  | 485.9 | 3.27 | 13.56 |     |     |      |
| 1975 COMPOSITE  | 5.57 | 127.5 | 536.3 | 2.82 | 11.81 |     |     |      |
| IDLE KEYMODE    | 3926 | 6.54  |       | 64   |       | 361 | 250 | 6.80 |
| LOW CR. KEYMODE | 3134 | 2.78  |       | 1270 |       | 362 | 230 | 2.80 |
| HI. CR. KEYMODE | 2777 | 2.54  |       | 1885 |       | 300 | 175 | 2.65 |
| 2500 RPM        |      |       |       |      |       |     | 210 | 4.30 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 148

1972 PLYM SATE 400 3500LBS                      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC              014660 MILES                      HAS: EMC, EVC, PCV

RETROFIT TYPE: A.BLD+EGR

INSTALLED COST: 36.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0389

09/20/73 BAR:24.69 DB:78 WB:55  
REL.HUM:23.4% NOX COR: .859

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 10.89 | 146.5 | 583.6 | 1.33 | 10.50 |     |     |       |
| COLD STABILIZED | 3.02  | 34.6  | 648.4 | 1.16 | 12.50 |     |     |       |
| HOT TRANSIENT   | 3.39  | 64.9  | 526.0 | 1.53 | 13.94 |     |     |       |
| 1975 COMPOSITE  | 4.77  | 66.4  | 600.9 | 1.30 | 12.37 |     |     |       |
| IDLE KEYMODE    | 1486  | 0.15  |       | 96   |       | 177 | 100 | 0.23  |
| LOW CR. KEYMODE | 2073  | 0.39  |       | 416  |       | 211 | 115 | 0.45  |
| HI. CR. KEYMODE | 4750  | 9.75  |       | 152  |       | 501 | 330 | ***** |
| 2500 RPM        |       |       |       |      |       |     | 80  | 0.55  |

DRIVEABILITY DEMERITS 24

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0403

09/21/73 BAR:24.65 DB:79 WB:56  
REL.HUM:24.2% NOX COR: .870

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 7.82 | 168.8 | 537.3 | 2.14 | 10.76 |     |     |       |
| COLD STABILIZED | 4.24 | 88.6  | 577.7 | 1.58 | 12.19 |     |     |       |
| HOT TRANSIENT   | 4.75 | 107.6 | 463.8 | 2.25 | 13.74 |     |     |       |
| 1975 COMPOSITE  | 5.13 | 110.6 | 537.7 | 1.88 | 12.24 |     |     |       |
| IDLE KEYMODE    | 3317 | 3.31  |       | 70   |       | 329 | 180 | 3.20  |
| LOW CR. KEYMODE | 3801 | 3.84  |       | 888  |       | 420 | 250 | 3.70  |
| HI. CR. KEYMODE | 5403 | 11.38 |       | 114  |       | 595 | 340 | ***** |
| 2500 RPM        |      |       |       |      |       |     | 150 | 3.60  |

DRIVEABILITY DEMERITS 15

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 150

1971 DODG DART 318 3000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 026700 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: EGR

INSTALLED COST: 32.15

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0391

09/20/73 BAR:24.69 DB:78 WB:56  
REL.HUM:26.0% NOX COR: .875

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.43 | 62.1 | 488.3 | 1.29 | 14.85 |     |     |      |
| COLD STABILIZED | 3.49 | 39.5 | 525.4 | 0.88 | 14.88 |     |     |      |
| HOT TRANSIENT   | 3.45 | 39.2 | 438.0 | 1.45 | 17.44 |     |     |      |
| 1975 COMPOSITE  | 3.68 | 44.1 | 493.4 | 1.12 | 15.51 |     |     |      |
| IDLE KEYMODE    | 2943 | 1.63 |       | 84   |       | 360 | 220 | 1.60 |
| LOW CR. KEYMODE | 3022 | 0.73 |       | 504  |       | 357 | 210 | 0.70 |
| HI. CR. KEYMODE | 3323 | 2.03 |       | 1039 |       | 377 | 230 | 2.10 |
| 2500 RPM        |      |      |       |      |       |     | 95  | 0.60 |

DRIVEABILITY DEMERITS 13

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0405

09/21/73 BAR:24.65 DB:80 WB:56  
REL.HUM:22.6% NOX COR: .864

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.71 | 54.2 | 475.1 | 2.82 | 15.48 |     |     |      |
| COLD STABILIZED | 3.85 | 46.9 | 483.3 | 1.81 | 15.65 |     |     |      |
| HOT TRANSIENT   | 3.68 | 39.5 | 431.4 | 2.95 | 17.63 |     |     |      |
| 1975 COMPOSITE  | 3.98 | 46.4 | 467.2 | 2.34 | 16.12 |     |     |      |
| IDLE KEYMODE    | 3101 | 1.67 |       | 81   |       | 377 | 190 | 1.60 |
| LOW CR. KEYMODE | 3629 | 1.13 |       | 1769 |       | 443 | 250 | 1.40 |
| HI. CR. KEYMODE | 3418 | 2.07 |       | 1943 |       | 395 | 200 | 2.20 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 1.10 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 152

1971 FORD GALA 351 4000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 029562 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+EGR

INSTALLED COST: 36.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0400

09/21/73 BAR:24.64 DB:75 WB:55  
REL.HUM:29.0% NOX COR: .877

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.75 | 56.2 | 620.5 | 3.58 | 12.30 |     |     |      |
| COLD STABILIZED | 3.08 | 17.6 | 683.7 | 2.57 | 12.35 |     |     |      |
| HOT TRANSIENT   | 4.39 | 28.2 | 529.5 | 3.73 | 15.15 |     |     |      |
| 1975 COMPOSITE  | 3.79 | 28.6 | 627.7 | 3.10 | 13.01 |     |     |      |
| IDLE KEYMODE    | 1753 | 1.26 |       | 124  |       | 186 | 70  | 1.30 |
| LOW CR. KEYMODE | 2568 | 0.16 |       | 1134 |       | 306 | 150 | 0.19 |
| HI. CR. KEYMODE | 3085 | 0.82 |       | 2653 |       | 331 | 185 | 0.85 |
| 2500 RPM        |      |      |       |      |       |     | 75  | 0.40 |

DRIVEABILITY DEMERITS 14

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0410

09/22/73 BAR:24.67 DB:72 WB:56  
REL.HUM:38.7% NOX COR: .912

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.98 | 69.2 | 615.3 | 5.28 | 12.04 |     |     |      |
| COLD STABILIZED | 3.26 | 37.1 | 634.9 | 3.78 | 12.66 |     |     |      |
| HOT TRANSIENT   | 4.60 | 47.3 | 504.5 | 4.81 | 15.01 |     |     |      |
| 1975 COMPOSITE  | 3.99 | 46.7 | 594.6 | 4.38 | 13.09 |     |     |      |
| IDLE KEYMODE    | 2098 | 1.03 |       | 184  |       | 200 | 120 | 1.00 |
| LOW CR. KEYMODE | 3101 | 0.72 |       | 2209 |       | 335 | 210 | 0.70 |
| HI. CR. KEYMODE | 2852 | 1.07 |       | 3862 |       | 303 | 170 | 1.25 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 1.00 |

DRIVEABILITY DEMERITS 7

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 153

1965 CHEV BELA 283 4000LBS                      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC              130460 MILES                      HAS: NO EMC, NO EVC, NO PCV

RETROFIT TYPE: A.BLD+EGR

INSTALLED COST: 36.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0401

09/21/73 BAR:24.65 DB:76 WB:57  
REL.HUM:32.6% NOX COR: .905

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 10.88 | 156.0 | 423.4 | 1.25 | 12.67 |      |     |      |
| COLD STABILIZED | 7.13  | 135.5 | 437.2 | 0.59 | 13.24 |      |     |      |
| HOT TRANSIENT   | 7.39  | 137.0 | 364.7 | 0.83 | 14.76 |      |     |      |
| 1975 COMPOSITE  | 7.99  | 140.2 | 414.2 | 0.79 | 13.50 |      |     |      |
| IDLE KEYMODE    | 6184  | 0.75  |       | 58   |       | 1116 | 240 | 0.70 |
| LOW CR. KEYMODE | 5164  | 5.03  |       | 254  |       | 783  | 510 | 5.00 |
| HI. CR. KEYMODE | 5651  | 7.37  |       | 291  |       | 812  | 480 | 7.90 |
| 2500 RPM        |       |       |       |      |       |      | 390 | 5.00 |

DRIVEABILITY DEMERITS 7

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0425

09/24/73 BAR:24.48 DB:75 WB:51  
REL.HUM:18.2% NOX COR: .820

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 12.38 | 191.8 | 434.6 | 1.49 | 11.49 |     |     |       |
| COLD STABILIZED | 8.70  | 188.9 | 397.3 | 0.51 | 12.34 |     |     |       |
| HOT TRANSIENT   | 7.56  | 161.0 | 350.3 | 1.03 | 14.20 |     |     |       |
| 1975 COMPOSITE  | 9.15  | 181.8 | 392.1 | 0.86 | 12.61 |     |     |       |
| IDLE KEYMODE    | 4712  | 2.56  |       | 77   |       | 651 | 580 | 2.50  |
| LOW CR. KEYMODE | 4939  | 5.76  |       | 397  |       | 617 | 520 | 5.70  |
| HI. CR. KEYMODE | 6306  | 10.75 |       | 202  |       | 692 | 575 | ***** |
| 2500 RPM        |       |       |       |      |       |     | 550 | 6.60  |

DRIVEABILITY DEMERITS 9

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 155

1968 CHEV BELA 307 4000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 066417 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: EGR

INSTALLED COST: 32.15

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0433

09/25/73 BAR:24.49 DB:77 WB:56  
REL.HUM:28.0% NOX COR: .884

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.45 | 105.4 | 569.8 | 2.65 | 11.68 |     |     |      |
| COLD STABILIZED | 5.10 | 48.4  | 587.0 | 1.48 | 13.11 |     |     |      |
| HOT TRANSIENT   | 4.86 | 54.7  | 481.0 | 2.45 | 15.29 |     |     |      |
| 1975 COMPOSITE  | 5.73 | 62.1  | 554.0 | 1.99 | 13.30 |     |     |      |
| IDLE KEYMODE    | 3701 | 1.32  |       | 127  |       | 476 | 310 | 1.20 |
| LOW CR. KEYMODE | 3585 | 0.88  |       | 551  |       | 478 | 290 | 0.90 |
| HI. CR. KEYMODE | 3465 | 1.55  |       | 1672 |       | 440 | 240 | 1.60 |
| 2500 RPM        |      |       |       |      |       |     | 200 | 1.90 |

DRIVEABILITY DEMERITS 7

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0418

09/24/73 BAR:24.57 DB:71 WB:57  
REL.HUM:44.7% NOX COR: .939

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.12 | 128.8 | 507.2 | 4.25 | 12.01 |     |     |      |
| COLD STABILIZED | 6.56  | 67.1  | 502.8 | 3.54 | 14.16 |     |     |      |
| HOT TRANSIENT   | 5.36  | 64.2  | 467.9 | 4.96 | 15.20 |     |     |      |
| 1975 COMPOSITE  | 6.97  | 79.2  | 494.0 | 4.08 | 13.90 |     |     |      |
| IDLE KEYMODE    | 5124  | 1.98  |       | 132  |       | 725 | 565 | 2.00 |
| LOW CR. KEYMODE | 4110  | 1.56  |       | 1917 |       | 555 | 330 | 1.65 |
| HI. CR. KEYMODE | 3612  | 1.17  |       | 2661 |       | 449 | 245 | 1.20 |
| 2500 RPM        |       |       |       |      |       |     | 250 | 1.60 |

DRIVEABILITY DEMERITS 11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 156

1971 VOLK SEDA 97 2000LBS SEA LEVEL RETROFIT  
4CYL 1BBL 4 SPEED 024425 MILES HAS: EMC, NO EVC, NO PCV

RETROFIT TYPE: EGR

INSTALLED COST: 32.15

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0419

09/24/73 BAR:24.59 DB:72 WB:51  
REL.HUM:23.5% NOX COR: .835

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.05 | 59.4 | 312.6 | 2.36 | 21.11 |     |     |      |
| COLD STABILIZED | 4.70 | 75.6 | 361.0 | 1.10 | 18.00 |     |     |      |
| HOT TRANSIENT   | 2.89 | 56.5 | 284.3 | 1.87 | 23.29 |     |     |      |
| 1975 COMPOSITE  | 4.27 | 66.9 | 329.6 | 1.58 | 19.87 |     |     |      |
| IDLE KEYMODE    | 3587 | 2.67 |       | 87   |       | 375 | 220 | 2.30 |
| LOW CR. KEYMODE | 2965 | 1.93 |       | 1232 |       | 380 | 200 | 1.80 |
| HI. CR. KEYMODE | 2380 | 1.25 |       | 2414 |       | 311 | 140 | 1.10 |
| 2500 RPM        |      |      |       |      |       |     | 180 | 3.10 |

DRIVEABILITY DEMERITS 9

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0436

09/25/73 BAR:24.48 DB:70 WB:52  
REL.HUM:30.8% NOX COR: .862

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.90 | 76.9 | 293.7 | 2.62 | 20.56 |     |     |      |
| COLD STABILIZED | 3.95 | 72.2 | 296.1 | 1.46 | 21.10 |     |     |      |
| HOT TRANSIENT   | 4.16 | 56.9 | 252.5 | 2.36 | 25.08 |     |     |      |
| 1975 COMPOSITE  | 4.42 | 68.9 | 283.5 | 1.95 | 21.95 |     |     |      |
| IDLE KEYMODE    | 4735 | 4.14 |       | 69   |       | 528 | 330 | 3.80 |
| LOW CR. KEYMODE | 3429 | 3.20 |       | 993  |       | 405 | 235 | 3.20 |
| HI. CR. KEYMODE | 2978 | 2.56 |       | 1872 |       | 368 | 210 | 3.00 |
| 2500 RPM        |      |      |       |      |       |     | 135 | 1.20 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 166

1970 VOLK SEDA 97 2000LBS SEA LEVEL RETROFIT  
4CYL 1BBL 4 SPEED 012474 MILES HAS: EMC, NO EVC, NO PCV

RETROFIT TYPE: EGR

INSTALLED COST: 32.15

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0446

09/26/73 BAR:24.77 DB:70 WB:53  
REL.HUM:33.8% NOX COR: .874

|                 | HC    | CO   | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 7.69  | 96.7 | 307.5 | 1.76 | 18.41 |      |      |      |
| COLD STABILIZED | 6.76  | 78.7 | 355.7 | 0.88 | 17.78 |      |      |      |
| HOT TRANSIENT   | 5.21  | 78.4 | 284.5 | 1.28 | 21.00 |      |      |      |
| 1975 COMPOSITE  | 6.52  | 82.4 | 325.9 | 1.18 | 18.71 |      |      |      |
| IDLE KEYMODE    | 14730 | 8.0  |       | 40   |       | **** | 1980 | 7.80 |
| LOW CR. KEYMODE | 4063  | 1.64 |       | 1313 |       | 530  | 320  | 1.80 |
| HI. CR. KEYMODE | 3427  | 3.85 |       | 1522 |       | 440  | 200  | 3.30 |
| 2500 RPM        |       |      |       |      |       |      | 245  | 2.10 |

DRIVEABILITY DEMERITS 9

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0468

09/27/73 BAR:24.98 DB:70 WB:54  
REL.HUM:36.9% NOX COR: .887

|                 | HC    | CO   | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 7.80  | 98.3 | 269.1 | 1.92 | 19.87 |      |      |      |
| COLD STABILIZED | 6.51  | 73.6 | 287.7 | 1.40 | 21.01 |      |      |      |
| HOT TRANSIENT   | 4.84  | 72.5 | 240.7 | 1.59 | 24.07 |      |      |      |
| 1975 COMPOSITE  | 6.31  | 78.5 | 270.8 | 1.56 | 21.51 |      |      |      |
| IDLE KEYMODE    | 14028 | 8.92 |       | 33   |       | 2242 | 1350 | 7.00 |
| LOW CR. KEYMODE | 3520  | 2.11 |       | 828  |       | 706  | 210  | 2.10 |
| HI. CR. KEYMODE | 3504  | 4.08 |       | 1731 |       | 674  | 210  | 4.00 |
| 2500 RPM        |       |      |       |      |       |      | 300  | 3.20 |

DRIVEABILITY DEMERITS 21

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 169

1965 PLYM FURY 318 4000LBS                      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC              113497 MILES                      HAS: EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+EGR

INSTALLED COST: 36.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0447

09/26/73    BAR:24.77    DB:70    WB:55  
REL.HUM:40.4%    NOX COR: .906

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 15.64 | 219.1 | 454.7 | 1.03 | 10.50 |     |     |      |
| COLD STABILIZED | 5.93  | 129.3 | 459.1 | 0.70 | 13.08 |     |     |      |
| HOT TRANSIENT   | 5.03  | 139.2 | 387.8 | 0.79 | 14.31 |     |     |      |
| 1975 COMPOSITE  | 7.71  | 150.8 | 438.4 | 0.79 | 12.73 |     |     |      |
| IDLE KEYMODE    | 3330  | 1.74  |       | 76   |       | 411 | 200 | 1.80 |
| LOW CR. KEYMODE | 4140  | 5.85  |       | 186  |       | 580 | 330 | 5.80 |
| HI. CR. KEYMODE | 4425  | 9.44  |       | 147  |       | 558 | 275 | 9.40 |
| 2500 RPM        |       |       |       |      |       |     | 190 | 3.00 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0466

09/27/73    BAR:24.98    DB:70    WB:54  
REL.HUM:36.9%    NOX COR: .887

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 15.72 | 247.4 | 398.6 | 1.09 | 10.64 |      |     |      |
| COLD STABILIZED | 9.89  | 170.7 | 370.2 | 0.97 | 13.30 |      |     |      |
| HOT TRANSIENT   | 7.85  | 171.5 | 339.8 | 1.03 | 14.04 |      |     |      |
| 1975 COMPOSITE  | 10.55 | 187.0 | 367.7 | 1.01 | 12.82 |      |     |      |
| IDLE KEYMODE    | 8924  | 7.21  |       | 37   |       | 1023 | 610 | 6.30 |
| LOW CR. KEYMODE | 5444  | 7.43  |       | 342  |       | 838  | 420 | 7.00 |
| HI. CR. KEYMODE | 4413  | 7.23  |       | 344  |       | 715  | 290 | 7.50 |
| 2500 RPM        |       |       |       |      |       |      | 380 | 6.60 |

DRIVEABILITY DEMERITS 20

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 171

1965 FORD STAW 289 4500LBS      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC      071092 MILES      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+EGR

INSTALLED COST: 36.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0460

09/27/73    BAR:25.05    DB:70    WB:54  
REL.HUM:36.8%    NOX COR: .886

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 15.04 | 173.8 | 506.3 | 2.42 | 10.77 |     |     |      |
| COLD STABILIZED | 11.19 | 121.7 | 512.8 | 2.06 | 12.04 |     |     |      |
| HOT TRANSIENT   | 8.67  | 99.9  | 460.4 | 2.76 | 13.81 |     |     |      |
| 1975 COMPOSITE  | 11.30 | 126.5 | 496.9 | 2.33 | 12.18 |     |     |      |
| IDLE KEYMODE    | 6084  | 2.25  |       | 72   |       | 860 | 760 | 2.10 |
| LOW CR. KEYMODE | 5268  | 2.60  |       | 1149 |       | 753 | 560 | 2.60 |
| HI. CR. KEYMODE | 4535  | 2.08  |       | 2043 |       | 622 | 350 | 1.90 |
| 2500 RPM        |       |       |       |      |       |     | 310 | 2.10 |

DRIVEABILITY DEMERITS 62

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0477

09/28/73    BAR:24.86    DB:71    WB:56  
REL.HUM:41.1%    NOX COR: .916

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 18.22 | 199.3 | 478.3 | 2.45 | 10.49 |     |     |      |
| COLD STABILIZED | 13.74 | 143.6 | 459.7 | 2.22 | 12.22 |     |     |      |
| HOT TRANSIENT   | 10.46 | 115.9 | 457.9 | 3.64 | 13.23 |     |     |      |
| 1975 COMPOSITE  | 13.77 | 147.6 | 463.1 | 2.66 | 12.06 |     |     |      |
| IDLE KEYMODE    | 7212  | 3.42  |       | 60   |       | 913 | 780 | 3.60 |
| LOW CR. KEYMODE | 6154  | 3.15  |       | 1347 |       | 801 | 575 | 3.40 |
| HI. CR. KEYMODE | 4762  | 1.78  |       | 2372 |       | 569 | 310 | 1.90 |
| 2500 RPM        |       |       |       |      |       |     | 390 | 4.40 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 172

1964 CHEV IMPA 283 3500LBS                      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC              110629 MILES                      HAS: NO EMC, NO EVÇ, PCV

RETROFIT TYPE: A.BLD+EGR

INSTALLED COST: 36.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0461

09/27/73 BAR:25.05 DB:70 WB:54  
REL.HUM:36.8% NOX COR: .886

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 12.40 | 191.3 | 407.3 | 0.97 | 11.92 |     |     |       |
| COLD STABILIZED | 11.11 | 195.9 | 326.1 | 0.34 | 13.31 |     |     |       |
| HOT TRANSIENT   | 9.99  | 157.5 | 314.3 | 0.83 | 15.01 |     |     |       |
| 1975 COMPOSITE  | 11.07 | 184.2 | 339.8 | 0.61 | 13.41 |     |     |       |
| IDLE KEYMODE    | 4586  | 0.93  |       | 133  |       | 808 | 400 | 0.80  |
| LOW CR. KEYMODE | 5401  | 7.00  |       | 195  |       | 831 | 460 | 7.00  |
| HI. CR. KEYMODE | 5246  | 6.48  |       | 391  |       | 811 | 420 | 6.50  |
| 2500 RPM        |       |       |       |      |       |     | 950 | ***** |

DRIVEABILITY DEMERITS 109

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0478

09/28/73 BAR:24.86 DB:70 WB:54  
REL.HUM:37.0% NOX COR: .889

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 16.24 | 224.8 | 372.9 | 0.99 | 11.45 |     |     |       |
| COLD STABILIZED | 12.20 | 226.2 | 329.8 | 0.38 | 12.30 |     |     |       |
| HOT TRANSIENT   | 10.03 | 175.8 | 308.3 | 0.81 | 14.45 |     |     |       |
| 1975 COMPOSITE  | 12.44 | 211.9 | 332.8 | 0.62 | 12.63 |     |     |       |
| IDLE KEYMODE    | 8481  | 5.65  |       | 49   |       | 801 | 550 | 5.00  |
| LOW CR. KEYMODE | 6562  | 9.06  |       | 143  |       | 748 | 420 | 3.40  |
| HI. CR. KEYMODE | 5307  | 5.82  |       | 677  |       | 602 | 350 | 5.80  |
| 2500 RPM        |       |       |       |      |       |     | 650 | ***** |

DRIVEABILITY DEMERITS 28

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 178

1964 FORD GALA 390 4000LBS                      SEA LEVEL RETROFIT  
8CYL 4BBL AUTOMATIC              059024 MILES                      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+EGR

INSTALLED COST: 36.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0489

10/01/73    BAR:24.72    DB:80    WB:58  
REL.HUM:27.6%    NOX COR: .897

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 14.31 | 113.9 | 527.7 | 2.29 | 11.84 |      |      |      |
| COLD STABILIZED | 10.66 | 74.9  | 522.0 | 1.76 | 13.22 |      |      |      |
| HOT TRANSIENT   | 8.39  | 69.6  | 467.7 | 2.09 | 14.75 |      |      |      |
| 1975 COMPOSITE  | 10.79 | 81.6  | 508.1 | 1.96 | 13.28 |      |      |      |
| IDLE KEYMODE    | 8366  | 1.60  |       | 93   |       | 1650 | 1280 | 1.50 |
| LOW CR. KEYMODE | 5603  | 1.93  |       | 571  |       | 937  | 660  | 2.10 |
| HI. CR. KEYMODE | 4963  | 1.57  |       | 1474 |       | 726  | 490  | 1.90 |
| 2500 RPM        |       |       |       |      |       |      | 330  | 3.00 |

DRIVEABILITY DEMERITS 15

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0511

10/02/73    BAR:24.62    DB:74    WB:54  
REL.HUM:28.2%    NOX COR: .867

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 17.66 | 138.1 | 569.0 | 2.73 | 10.58 |      |      |      |
| COLD STABILIZED | 15.89 | 151.2 | 518.6 | 2.53 | 11.04 |      |      |      |
| HOT TRANSIENT   | 11.32 | 109.0 | 488.6 | 2.93 | 12.80 |      |      |      |
| 1975 COMPOSITE  | 15.00 | 136.8 | 520.8 | 2.68 | 11.37 |      |      |      |
| IDLE KEYMODE    | 11049 | 7.63  |       | 60   |       | 1870 | 1550 | 6.50 |
| LOW CR. KEYMODE | 5729  | 2.10  |       | 1427 |       | 904  | 690  | 2.40 |
| HI. CR. KEYMODE | 5046  | 1.90  |       | 1773 |       | 679  | 460  | 2.00 |
| 2500 RPM        |       |       |       |      |       |      | 330  | 3.00 |

DRIVEABILITY DEMERITS 7

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 215

1972 FORD TRUC 360 5000LBS                      SEA LEVEL RETROFIT ONLY  
8CYL 2BBL AUTOMATIC              019696 MILES                      HAS: EMC, EVC, PCV

RETROFIT TYPE: PROPANE

INSTALLED COST: 650.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0728

10/23/73    BAR: 24.68    DB: 72    WB: 54  
REL. HUM: 32.4%    NOX COR: .878

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 4.85 | 69.7  | 664.6 | 6.39 | 6.78  |      |     |      |
| COLD STABILIZED | 3.56 | 22.5  | 623.4 | 4.91 | 13.29 |      |     |      |
| HOT TRANSIENT   | 3.60 | 33.7  | 560.9 | 7.37 | 14.24 |      |     |      |
| 1975 COMPOSITE  | 3.84 | 35.5  | 614.7 | 5.90 | 13.05 |      |     |      |
| IDLE KEYMODE    | 9445 | 5.46  |       | 275  |       | 1768 | 320 | 1.20 |
| LOW CR. KEYMODE | 3220 | 0.16  |       | 3701 |       | 609  | 260 | 0.15 |
| HI. CR. KEYMODE | 3470 | .2.14 |       | 2774 |       | 647  | 300 | 1.70 |
| 2500 RPM        |      |       |       |      |       |      | 45  | 0.20 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0648

10/16/73    BAR: 24.92    DB: 71    WB: 53  
REL. HUM: 31.3%    NOX COR: .866

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.12 | 118.2 | 677.3 | 5.59 | 9.95  |     |     |      |
| COLD STABILIZED | 4.05  | 12.2  | 766.3 | 4.77 | 11.16 |     |     |      |
| HOT TRANSIENT   | 5.68  | 22.8  | 646.0 | 7.43 | 12.72 |     |     |      |
| 1975 COMPOSITE  | 5.77  | 37.4  | 714.3 | 5.68 | 11.26 |     |     |      |
| IDLE KEYMODE    | 851   | 0.21  |       | 98   |       | 180 | 85  | 0.20 |
| LOW CR. KEYMODE | 3910  | 0.99  |       | 2359 |       | 458 | 510 | 1.00 |
| HI. CR. KEYMODE | 3489  | 0.50  |       | 3820 |       | 372 | 355 | 0.57 |
| 2500 RPM        |       |       |       |      |       |     | 360 | 0.47 |

DRIVEABILITY DEMERITS 74

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 216

1969 CHEV IMPA 350 4000LBS                      SEA LEVEL RETROFIT ONLY  
8CYL 4BBL AUTOMATIC              021573 MILES                      HAS: EMC, NO EVC, PCV

RETROFIT TYPE: PROPANE

INSTALLED COST:650.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0587

10/10/73 BAR:24.67 DB:73 WB:53  
REL.HUM:27.2% NOX COR: .857

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 15.35 | 110.4 | 503.6 | 4.58 | 7.40  |     |     |      |
| COLD STABILIZED | 5.27  | 84.8  | 461.6 | 2.82 | 14.56 |     |     |      |
| HOT TRANSIENT   | 4.52  | 58.5  | 445.1 | 5.09 | 16.15 |     |     |      |
| 1975 COMPOSITE  | 7.17  | 82.8  | 465.8 | 3.82 | 14.40 |     |     |      |
| IDLE KEYMODE    | 4146  | 3.55  |       | 74   |       | 603 | 250 | 2.55 |
| LOW CR. KEYMODE | 4382  | 3.01  |       | 1556 |       | 732 | 330 | 2.45 |
| HI. CR. KEYMODE | 3642  | 2.42  |       | 2371 |       | 617 | 240 | 2.00 |
| 2500 RPM        |       |       |       |      |       |     | 215 | 2.20 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0619

10/12/73 BAR:24.49 DB:70 WB:52  
REL.HUM:30.8% NOX COR: .861

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.92 | 197.4 | 538.0 | 3.71 | 10.05 |     |     |      |
| COLD STABILIZED | 6.79  | 133.9 | 517.6 | 2.27 | 11.88 |     |     |      |
| HOT TRANSIENT   | 5.97  | 100.3 | 485.8 | 4.24 | 13.45 |     |     |      |
| 1975 COMPOSITE  | 7.64  | 137.9 | 513.0 | 3.12 | 11.82 |     |     |      |
| IDLE KEYMODE    | 4637  | 5.65  |       | 71   |       | 475 | 300 | 4.60 |
| LOW CR. KEYMODE | 4136  | 3.17  |       | 1450 |       | 455 | 275 | 2.90 |
| HI. CR. KEYMODE | 3611  | 3.04  |       | 2185 |       | 370 | 210 | 2.60 |
| 2500 RPM        |       |       |       |      |       |     | 310 | 3.90 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 242

1970 FORD MUST 302 3500LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 016785 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FBPR

INSTALLED COST: 24.10

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0743

10/24/73 BAR: 24.63 DB: 74 WB: 49  
REL. HUM: 14.4% NOX COR: .799

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.71 | 88.7 | 518.8 | 3.57 | 13.17 |     |     |      |
| COLD STABILIZED | 3.30 | 45.7 | 578.7 | 1.88 | 13.47 |     |     |      |
| HOT TRANSIENT   | 3.73 | 42.9 | 488.5 | 3.80 | 15.69 |     |     |      |
| 1975 COMPOSITE  | 3.92 | 53.9 | 541.1 | 2.77 | 13.96 |     |     |      |
| IDLE KEYMODE    | 2739 | 1.04 |       | 104  |       | 359 | 100 | 1.10 |
| LOW CR. KEYMODE | 3573 | 0.84 |       | 2173 |       | 543 | 250 | 0.70 |
| HI. CR. KEYMODE | 3337 | 0.99 |       | 3171 |       | 502 | 215 | 0.80 |
| 2500 RPM        |      |      |       |      |       |     | 75  | 1.40 |

DRIVEABILITY DEMERITS 8

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0757

10/25/73 BAR: 24.65 DB: 77 WB: 50  
REL. HUM: 12.5% NOX COR: .797

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.07 | 93.5 | 538.6 | 3.60 | 12.69 |     |     |      |
| COLD STABILIZED | 3.82 | 80.5 | 548.7 | 1.56 | 12.96 |     |     |      |
| HOT TRANSIENT   | 6.88 | 48.4 | 454.7 | 3.78 | 16.12 |     |     |      |
| 1975 COMPOSITE  | 4.93 | 74.3 | 520.5 | 2.60 | 13.64 |     |     |      |
| IDLE KEYMODE    | 2546 | 2.71 |       | 85   |       | 295 | 150 | 2.20 |
| LOW CR. KEYMODE | 3272 | 2.27 |       | 1684 |       | 536 | 310 | 1.50 |
| HI. CR. KEYMODE | 3175 | 1.54 |       | 2666 |       | 488 | 260 | 1.40 |
| 2500 RPM        |      |      |       |      |       |     | 85  | 1.90 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 248

1969 PONT LEMA 350 4000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 027997 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FBPR

INSTALLED COST: 24.10

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0744

10/24/73 BAR: 24.63 DB: 78 WB: 51  
REL. HUM: 13.5% NOX COR: .804

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.36 | 91.1 | 538.0 | 5.87 | 12.70 |     |     |      |
| COLD STABILIZED | 4.87 | 40.8 | 561.3 | 5.64 | 13.90 |     |     |      |
| HOT TRANSIENT   | 4.67 | 46.7 | 469.4 | 6.45 | 15.97 |     |     |      |
| 1975 COMPOSITE  | 5.13 | 53.0 | 530.9 | 5.91 | 14.13 |     |     |      |
| IDLE KEYMODE    | 2791 | 1.80 |       | 93   |       | 295 | 140 | 1.60 |
| LOW CR. KEYMODE | 3434 | 0.71 |       | 3171 |       | 515 | 280 | 0.60 |
| HI. CR. KEYMODE | 4489 | 8.23 |       | 340  |       | 640 | 375 | 6.70 |
| 2500 RPM        |      |      |       |      |       |     | 150 | 1.70 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0758

10/25/73 BAR: 24.65 DB: 77 WB: 50  
REL. HUM: 12.5% NOX COR: .797

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.96 | 153.6 | 524.4 | 4.12 | 11.26 |     |     |      |
| COLD STABILIZED | 5.37 | 75.6  | 571.9 | 4.66 | 12.58 |     |     |      |
| HOT TRANSIENT   | 4.64 | 67.7  | 460.1 | 5.19 | 15.32 |     |     |      |
| 1975 COMPOSITE  | 5.71 | 89.8  | 530.9 | 4.69 | 12.91 |     |     |      |
| IDLE KEYMODE    | 3511 | 3.72  |       | 85   |       | 337 | 200 | 2.90 |
| LOW CR. KEYMODE | 3680 | 1.98  |       | 2573 |       | 532 | 335 | 1.50 |
| HI. CR. KEYMODE | 3567 | 3.43  |       | 1631 |       | 494 | 290 | 2.90 |
| 2500 RPM        |      |       |       |      |       |     | 120 | 1.00 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 249

1971 PLYM FURY 383 4000LBS                      SEA LEVEL RETROFIT  
8CYL 4BBL AUTOMATIC              030259 MILES                      HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FBPR

INSTALLED COST: 24.10

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0763

10/25/73    BAR:24.60    DB:77    WB:52  
REL.HUM:17.4%    NOX COR: .822

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.50 | 147.0 | 576.5 | 2.26 | 10.71 |     |     |      |
| COLD STABILIZED | 4.88 | 110.6 | 652.0 | 1.46 | 10.59 |     |     |      |
| HOT TRANSIENT   | 4.23 | 97.4  | 507.6 | 2.03 | 13.21 |     |     |      |
| 1975 COMPOSITE  | 5.25 | 114.5 | 596.1 | 1.79 | 11.24 |     |     |      |
| IDLE KEYMODE    | 3562 | 5.32  |       | 57   |       | 284 | 220 | 4.50 |
| LOW CR. KEYMODE | 3468 | 4.41  |       | 488  |       | 415 | 270 | 3.20 |
| HI. CR. KEYMODE | 3557 | 5.09  |       | 832  |       | 395 | 230 | 4.20 |
| 2500 RPM        |      |       |       |      |       |     | 200 | 4.80 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0779

10/26/73    BAR:24.71    DB:70    WB:50  
REL.HUM:24.4%    NOX COR: .832

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.49 | 170.0 | 567.8 | 1.72 | 10.30 |     |     |      |
| COLD STABILIZED | 4.37 | 103.4 | 657.1 | 1.23 | 10.69 |     |     |      |
| HOT TRANSIENT   | 5.42 | 129.2 | 572.4 | 2.03 | 11.24 |     |     |      |
| 1975 COMPOSITE  | 5.73 | 124.5 | 614.9 | 1.56 | 10.75 |     |     |      |
| IDLE KEYMODE    | 3114 | 2.88  |       | 72   |       | 333 | 560 | 2.20 |
| LOW CR. KEYMODE | 3344 | 3.64  |       | 655  |       | 401 | 780 | 3.40 |
| HI. CR. KEYMODE | 3349 | 4.48  |       | 1079 |       | 385 | 700 | 4.00 |
| 2500 RPM        |      |       |       |      |       |     | 620 | 3.00 |

DRIVEABILITY DEMERITS 13

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 255

1972 CHEV NOVA 307 3000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 032867 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: FBPR

INSTALLED COST: 24.10

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0781

10/26/73 BAR:24.40 DB:72 WB:51  
REL.HUM:23.6% NOX COR: .837

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.92 | 144.6 | 461.9 | 1.76 | 12.58 |     |     |      |
| COLD STABILIZED | 2.56 | 16.2  | 531.2 | 2.30 | 15.77 |     |     |      |
| HOT TRANSIENT   | 2.66 | 48.9  | 392.8 | 2.50 | 18.63 |     |     |      |
| 1975 COMPOSITE  | 3.29 | 52.1  | 478.3 | 2.24 | 15.61 |     |     |      |
| IDLE KEYMODE    | 2781 | 0.13  |       | 392  |       | 385 | 260 | 0.10 |
| LOW CR. KEYMODE | 2912 | 0.28  |       | 2744 |       | 395 | 250 | 0.20 |
| HI. CR. KEYMODE | 3222 | 2.16  |       | 2117 |       | 416 | 250 | 0.50 |
| 2500 RPM        |      |       |       |      |       |     | 220 | 0.10 |

DRIVEABILITY DEMERITS 48

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0791

10/29/73 BAR:24.55 DB:82 WB:52  
REL.HUM:10.7% NOX COR: .798

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 6.00 | 87.5 | 508.1 | 3.11 | 13.40 |      |     |      |
| COLD STABILIZED | 3.77 | 14.1 | 482.6 | 2.33 | 17.24 |      |     |      |
| HOT TRANSIENT   | 4.14 | 52.3 | 381.7 | 2.71 | 18.67 |      |     |      |
| 1975 COMPOSITE  | 4.34 | 40.0 | 460.0 | 2.60 | 16.60 |      |     |      |
| IDLE KEYMODE    | 6973 | 0.28 |       | 34   |       | 1148 | 240 | 0.20 |
| LOW CR. KEYMODE | 3570 | 0.95 |       | 2481 |       | 494  | 290 | 0.50 |
| HI. CR. KEYMODE | 3440 | 2.82 |       | 1699 |       | 442  | 260 | 2.20 |
| 2500 RPM        |      |      |       |      |       |      | 130 | 1.00 |

DRIVEABILITY DEMERITS 32

AUTOMOTIVE TESTING LABORATORIES, INC.  
19906 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 265

1969 CHEV CAPR 327 4000LBS COMBINATION RETROFIT  
8CYL 4BBL AUTOMATIC 030213 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD

INSTALLED COST: 24.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0804

10/30/73 BAR:24.57 DB:70 WB:51  
REL.HUM:27.6% NOX COR: .846

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.19 | 172.7 | 626.6 | 2.34 | 9.67  |     |     |      |
| COLD STABILIZED | 2.98 | 55.2  | 699.4 | 2.00 | 11.19 |     |     |      |
| HOT TRANSIENT   | 2.17 | 28.3  | 599.2 | 2.80 | 13.69 |     |     |      |
| 1975 COMPOSITE  | 3.64 | 72.3  | 656.4 | 2.29 | 11.40 |     |     |      |
| IDLE KEYMODE    | 1843 | 1.03  |       | 154  |       | 236 | 140 | 0.90 |
| LOW CR. KEYMODE | 1400 | 0.75  |       | 668  |       | 228 | 80  | 0.65 |
| HI. CR. KEYMODE | 1244 | 0.57  |       | 1045 |       | 229 | 65  | 0.45 |
| 2500 RPM        |      |       |       |      |       |     | 45  | 0.80 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0831

11/01/73 BAR:24.24 DB:72 WB:52  
REL.HUM:26.7% NOX COR: .853

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.37 | 150.6 | 482.2 | 2.45 | 12.00 |     |     |      |
| COLD STABILIZED | 3.57 | 61.5  | 577.0 | 2.56 | 13.00 |     |     |      |
| HOT TRANSIENT   | 3.09 | 43.4  | 509.7 | 4.02 | 15.16 |     |     |      |
| 1975 COMPOSITE  | 4.24 | 75.1  | 538.5 | 2.94 | 13.30 |     |     |      |
| IDLE KEYMODE    | 2938 | 3.75  |       | 76   |       | 295 | 150 | 2.80 |
| LOW CR. KEYMODE | 2704 | 1.69  |       | 1479 |       | 390 | 210 | 1.40 |
| HI. CR. KEYMODE | 2118 | 0.57  |       | 2508 |       | 319 | 125 | 0.50 |
| 2500 RPM        |      |       |       |      |       |     | 115 | 1.60 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 267

1967 FORD FALC 200 2750LBS      SEA LEVEL RETROFIT  
6CYL 13BL      3 SPEED      103550 MILES      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+VSAD

INSTALLED COST: 24.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0822

10/31/73      BAR:24.45      DB:70      WB:50  
REL.HUM:24.6%      NOX COR: .834

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.28 | 47.8 | 365.2 | 2.23 | 19.49 |     |     |      |
| COLD STABILIZED | 1.92 | 21.7 | 400.8 | 1.21 | 20.19 |     |     |      |
| HOT TRANSIENT   | 2.26 | 29.6 | 324.7 | 1.94 | 23.54 |     |     |      |
| 1975 COMPOSITE  | 2.72 | 29.4 | 372.3 | 1.63 | 20.86 |     |     |      |
| IDLE KEYMODE    | 922  | 0.15 |       | 93   |       | 165 | 60  | 0.12 |
| LOW CR. KEYMODE | 1254 | 0.18 |       | 735  |       | 203 | 65  | 0.16 |
| HI. CR. KEYMODE | 3585 | 7.56 |       | 344  |       | 456 | 260 | 7.00 |
| 2500 RPM        |      |      |       |      |       |     | 50  | 0.12 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0830

11/01/73      BAR:24.24      DB:72      WB:52  
REL.HUM:26.7%      NOX COR: .853

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.12 | 44.5 | 328.0 | 5.48 | 21.67 |     |     |      |
| COLD STABILIZED | 3.63 | 55.4 | 324.1 | 3.44 | 21.08 |     |     |      |
| HOT TRANSIENT   | 3.12 | 36.8 | 295.3 | 5.11 | 24.54 |     |     |      |
| 1975 COMPOSITE  | 3.59 | 47.9 | 316.9 | 4.33 | 22.07 |     |     |      |
| IDLE KEYMODE    | 4139 | 5.61 |       | 65   |       | 387 | 235 | 4.20 |
| LOW CR. KEYMODE | 2632 | 0.14 |       | 5165 |       | 387 | 185 | 0.15 |
| HI. CR. KEYMODE | 2839 | 0.81 |       | 3992 |       | 443 | 230 | 0.72 |
| 2500 RPM        |      |      |       |      |       |     | 500 | 0.60 |

DRIVEABILITY DEMERITS 50

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 271

1967 PONT FIRE 326 3500LBS SEA LEVEL RETROFIT  
8CYL 4BBL AUTOMATIC 059028 MILES HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+VSAD

INSTALLED COST: 24.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0820

10/31/73 BAR:24.47 DB:70 WB:50  
REL.HUM:24.6% NOX COR: .834

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.85 | 149.7 | 488.3 | 1.73 | 11.85 |     |     |      |
| COLD STABILIZED | 4.70 | 94.2  | 505.0 | 1.15 | 13.33 |     |     |      |
| HOT TRANSIENT   | 4.82 | 106.4 | 410.1 | 1.54 | 15.03 |     |     |      |
| 1975 COMPOSITE  | 5.60 | 109.2 | 475.2 | 1.38 | 13.41 |     |     |      |
| IDLE KEYMODE    | 2415 | 0.11  |       | 133  |       | 332 | 195 | 0.10 |
| LOW CR. KEYMODE | 3232 | 1.82  |       | 1073 |       | 392 | 230 | 1.60 |
| HI. CR. KEYMODE | 3950 | 5.49  |       | 739  |       | 499 | 310 | 4.80 |
| 2500 RPM        |      |       |       |      |       |     | 175 | 0.75 |

DRIVEABILITY DEMERITS 11

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0829

11/01/73 BAR:24.24 DB:73 WB:52  
REL.HUM:24.7% NOX COR: .847

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.35 | 188.9 | 404.6 | 1.39 | 12.08 |     |     |      |
| COLD STABILIZED | 7.32  | 136.1 | 399.4 | 1.05 | 13.99 |     |     |      |
| HOT TRANSIENT   | 7.45  | 157.9 | 326.1 | 1.35 | 14.90 |     |     |      |
| 1975 COMPOSITE  | 8.20  | 153.2 | 380.2 | 1.20 | 13.77 |     |     |      |
| IDLE KEYMODE    | 6247  | 4.14  |       | 52   |       | 763 | 550 | 3.00 |
| LOW CR. KEYMODE | 4148  | 3.58  |       | 1066 |       | 593 | 360 | 2.60 |
| HI. CR. KEYMODE | 4356  | 6.72  |       | 602  |       | 626 | 355 | 4.80 |
| 2500 RPM        |       |       |       |      |       |     | 330 | 2.30 |

DRIVEABILITY DEMERITS 25

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 272

1966 PLYM FURY 318 4000LBS                      SEA LEVEL RETROFIT  
8CYL 2BBL AUTOMATIC              092494 MILES                      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+VSAD                      INSTALLED COST: 24.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0843

11/02/73 BAR:24.64 DB:69 WB:49  
REL.HUM:23.4% NOX COR: .825

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.77 | 173.3 | 765.0 | 2.25 | 8.36  |     |     |      |
| COLD STABILIZED | 5.15 | 128.5 | 699.5 | 1.79 | 9.70  |     |     |      |
| HOT TRANSIENT   | 4.48 | 144.2 | 528.2 | 1.47 | 11.58 |     |     |      |
| 1975 COMPOSITE  | 5.72 | 142.2 | 665.7 | 1.79 | 9.82  |     |     |      |
| IDLE KEYMODE    | 2813 | 1.55  |       | 154  |       | 228 | 115 | 1.40 |
| LOW CR. KEYMODE | 2731 | 2.57  |       | 763  |       | 244 | 120 | 2.20 |
| HI. CR. KEYMODE | 3574 | 9.10  |       | 172  |       | 325 | 160 | 7.30 |
| 2500 RPM        |      |       |       |      |       |     | 60  | 1.25 |

DRIVEABILITY DEMERITS 34

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0856

11/05/73 BAR:24.55 DB:72 WB:53  
REL.HUM:29.4% NOX COR: .864

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.33 | 154.6 | 489.3 | 3.20 | 11.69 |     |     |      |
| COLD STABILIZED | 6.32 | 110.7 | 446.1 | 2.97 | 13.91 |     |     |      |
| HOT TRANSIENT   | 5.32 | 98.5  | 422.4 | 3.33 | 14.99 |     |     |      |
| 1975 COMPOSITE  | 6.67 | 116.5 | 448.6 | 3.12 | 13.65 |     |     |      |
| IDLE KEYMODE    | 4548 | 5.31  |       | 92   |       | 422 | 280 | 4.00 |
| LOW CR. KEYMODE | 3667 | 3.30  |       | 1522 |       | 448 | 270 | 2.60 |
| HI. CR. KEYMODE | 2905 | 2.19  |       | 1698 |       | 307 | 145 | 1.80 |
| 2500 RPM        |      |       |       |      |       |     | 230 | 1.90 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 276

1966 PONT LEMA 326 3500LBS                      SEA LEVEL RETROFIT  
8CYL 4BBL AUTOMATIC              073426 MILES                      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+VSAD              INSTALLED COST: 24.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0827                      11/01/73    BAR:24.23    DB:70    WB:50  
REL.HUM:24.9%    NOX COR: .836

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.86 | 152.3 | 552.2 | 1.68 | 10.78 |     |     |      |
| COLD STABILIZED | 7.47  | 107.6 | 622.2 | 1.21 | 10.93 |     |     |      |
| HOT TRANSIENT   | 4.36  | 96.4  | 480.4 | 1.50 | 13.79 |     |     |      |
| 1975 COMPOSITE  | 7.31  | 113.8 | 568.2 | 1.39 | 11.56 |     |     |      |
| IDLE KEYMODE    | 2448  | 1.25  |       | 89   |       | 258 | 130 | 1.00 |
| LOW CR. KEYMODE | 2599  | 0.45  |       | 1138 |       | 350 | 165 | 0.45 |
| HI. CR. KEYMODE | 4150  | 9.44  |       | 170  |       | 580 | 320 | 6.90 |
| 2500 RPM        |       |       |       |      |       |     | 90  | 0.55 |

DRIVEABILITY DEMERITS 34

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0866                      11/05/73    BAR:24.67    DB:73    WB:53  
REL.HUM:27.2%    NOX COR: .857

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.30 | 143.2 | 509.7 | 3.71 | 11.61 |     |     |      |
| COLD STABILIZED | 6.41  | 106.6 | 554.4 | 3.18 | 12.00 |     |     |      |
| HOT TRANSIENT   | 5.59  | 121.8 | 482.2 | 2.51 | 12.88 |     |     |      |
| 1975 COMPOSITE  | 7.00  | 118.5 | 525.0 | 3.10 | 12.15 |     |     |      |
| IDLE KEYMODE    | 4493  | 4.74  |       | 228  |       | 599 | 275 | 4.30 |
| LOW CR. KEYMODE | 3469  | 0.38  |       | 2594 |       | 459 | 180 | 0.20 |
| HI. CR. KEYMODE | 3738  | 3.64  |       | 1492 |       | 483 | 185 | 3.50 |
| 2500 RPM        |       |       |       |      |       |     | 175 | 1.90 |

DRIVEABILITY DEMERITS 7

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 280

1967 CHEV STAW 327 4000LBS      SEA LEVEL RETROFIT  
8CYL 4BBL      3 SPEED      096491 MILES      HAS: NO EMC, NO EVC, PCV

RETROFIT TYPE: A.BLD+VSAD      INSTALLED COST: 24.95

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0828      11/01/73      BAR:24.24      DB:70      WB:50  
REL.HUM:24.8%      NOX COR: .836

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 25.46 | 227.0 | 407.7 | 0.70 | 10.54 |     |     |      |
| COLD STABILIZED | 6.12  | 149.0 | 420.7 | 0.46 | 13.21 |     |     |      |
| HOT TRANSIENT   | 5.57  | 113.0 | 362.1 | 0.71 | 15.98 |     |     |      |
| 1975 COMPOSITE  | 10.02 | 155.3 | 401.7 | 0.58 | 13.15 |     |     |      |
| IDLE KEYMODE    | 3435  | 2.65  |       | 74   |       | 377 | 220 | 1.80 |
| LOW CR. KEYMODE | 3991  | 5.49  |       | 242  |       | 502 | 290 | 3.90 |
| HI. CR. KEYMODE | 3661  | 3.82  |       | 759  |       | 505 | 275 | 2.90 |
| 2500 RPM        |       |       |       |      |       |     | 270 | 4.70 |

DRIVEABILITY DEMERITS 3

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0852      11/02/73      BAR:24.73      DB:71      WB:51  
REL.HUM:25.3%      NOX COR: .839

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 20.76 | 200.9 | 368.6 | 1.19 | 11.87 |     |     |      |
| COLD STABILIZED | 12.08 | 165.7 | 395.6 | 0.73 | 12.83 |     |     |      |
| HOT TRANSIENT   | 9.11  | 137.7 | 347.2 | 1.24 | 15.03 |     |     |      |
| 1975 COMPOSITE  | 13.07 | 165.3 | 376.5 | 0.97 | 13.15 |     |     |      |
| IDLE KEYMODE    | 6945  | 5.60  |       | 50   |       | 775 | 550 | 4.95 |
| LOW CR. KEYMODE | 5488  | 6.10  |       | 366  |       | 742 | 540 | 4.90 |
| HI. CR. KEYMODE | 4382  | 3.64  |       | 1234 |       | 567 | 410 | 3.70 |
| 2500 RPM        |       |       |       |      |       |     | 450 | 5.80 |

DRIVEABILITY DEMERITS 18

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 283

1968 PONT CATA 400 4500LBS COMBINATION RETROFIT  
8CYL 4BBL AUTOMATIC 075255 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FBPR

INSTALLED COST: 24.10

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0844

11/02/73 BAR:24.64 DB:69 WB:50  
REL.HUM:26.6% NOX COR: .838

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.63 | 114.0 | 642.8 | 2.99 | 10.60 |     |     |      |
| COLD STABILIZED | 4.10 | 72.1  | 679.4 | 2.72 | 11.05 |     |     |      |
| HOT TRANSIENT   | 3.96 | 95.8  | 508.6 | 2.67 | 13.26 |     |     |      |
| 1975 COMPOSITE  | 4.38 | 87.4  | 624.3 | 2.76 | 11.48 |     |     |      |
| IDLE KEYMODE    | 2652 | 3.19  |       | 84   |       | 291 | 130 | 2.40 |
| LOW CR. KEYMODE | 2518 | 1.53  |       | 1300 |       | 339 | 160 | 1.20 |
| HI. CR. KEYMODE | 3447 | 5.86  |       | 814  |       | 427 | 230 | 4.20 |
| 2500 RPM        |      |       |       |      |       |     | 70  | 0.70 |

DRIVEABILITY DEMERITS 1

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0858

11/05/73 BAR:24.67 DB:72 WB:56  
REL.HUM:38.7% NOX COR: .912

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.58 | 189.3 | 572.2 | 1.80 | 10.00 |     |     |      |
| COLD STABILIZED | 6.07 | 190.0 | 513.9 | 0.83 | 10.71 |     |     |      |
| HOT TRANSIENT   | 5.68 | 172.6 | 455.6 | 1.29 | 11.96 |     |     |      |
| 1975 COMPOSITE  | 6.07 | 185.0 | 509.9 | 1.16 | 10.87 |     |     |      |
| IDLE KEYMODE    | 1211 | 0.17  |       | 103  |       | 181 | 60  | 0.12 |
| LOW CR. KEYMODE | 3537 | 5.26  |       | 370  |       | 451 | 230 | 3.60 |
| HI. CR. KEYMODE | 3617 | 6.42  |       | 544  |       | 438 | 210 | 4.30 |
| 2500 RPM        |      |       |       |      |       |     | 145 | 2.90 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011



## 5. DATA REDUCTION - EXHAUST CONTROL RETROFIT - ALTITUDE KITS

A detailed account of the data accumulation process is contained in volume II of this report. To facilitate discussion of data treatment after collection, the steps of the test sequence are listed in Table 2.

- |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. Collect vehicle information (make, model, CID, etc.)</li><li>2. Maintenance to manufactures specifications</li><li>3. Exhaust emission test with kit installed</li><li>4. Driveability evaluation with kit installed</li><li>5. Remove kit</li><li>6. Exhaust emission test without kit</li><li>7. Driveability evaluation without kit</li></ol> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

TABLE 2. Data Collection Procedure

The vehicle information collected at steps 1. & 2. required no data reduction.

### 5.1 EMISSION TESTS

The emission tests actually consisted of three separate tests, the 1975 Federal mass emission test, a key mode (Clayton Mfg. Co.) test, and an idle test.

#### 5.1.1 Federal Tests Procedure

These tests were performed according to procedures stipulated in the Federal Register, Volume 38, Number 124, Part III dated June 28, 1973. The data is accumulated through the constant volume sampler technique in which diluted samples of the exhaust are collected in a bag. Simultaneously, samples of background air are also bagged. The

test is divided into three parts with the exhaust sample from each portion being collected in a separate bag. The first portion is designated the cold transient phase and lasts for the first 505 seconds of the driving schedule. The second is the cold stabilized phase and consists of the remaining 867 seconds of the driving schedule. The third portion is the hot transient phase and is a repeat of the cold transient phase. The data thus collected is then reduced to mass emissions using the equations shown in Appendix 1. The mass emissions of the exhaust can then be used to calculate fuel consumption with the equation developed in Appendix 2.

#### 5.1.2 Key Mode Test Procedure

Immediately following each mass emission test, a key mode test was performed using procedures outlined by Clayton Manufacturing Company of El Monte, California. The key mode test consists of measuring exhaust concentrations during idle, a loaded low cruise steady state mode, and a loaded high cruise steady state mode. The concentration of each emittant is corrected as specified in CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES FOR 1972-MODEL GASOLINE-POWERED MOTOR VEHICLES UNDER 6001 POUNDS GROSS VEHICLE WEIGHT, as amended on February 17, 1971, which specifies that exhaust gas concentrations shall be adjusted to a dry exhaust volume containing 14.5 mole percent carbon atoms by applying the following dilution factor.

$$14.5/(\% \text{ CO}_2 + (0.5)\% \text{ CO} + (1.8 \times 6)\% \text{ HC})$$

This correction factor was not applied to the readings taken with garage type instruments.

#### 5.1.3 Idle Test Procedure

The idle test procedure is specified to be an exhaust concentration

measurements of hydrocarbons and carbon monoxide at curb idle and at 2500 engine RPM (transmission in neutral). These measurements were taken with the garage type instrument. The curb idle portion of this test was taken simultaneous with the idle portion of the key mode.

## 5.2 DRIVEABILITY EVALUATIONS

The driveability evaluation was performed to ascertain the performance of the vehicle from the standpoint of desirable and undesirable driveability characteristics. The characteristics examined in the course of the evaluation include stalling, hesitation, backfires, acceleration, idle quality, etc. The evaluation is performed using guidelines specified by the State of California Air Resources Board Driveability procedure of 03/30/72 (See Appendix 7 of Volume I). The results required no data reduction and were used as reported.

## 6. EXHAUST CONTROL RETROFIT - ALTITUDE KIT - DATA

The data presented on the following pages is divided into several sections which depend on the type of test performed or the type of information collected.

### 6.1 HEADING

The heading contains a physical description of the vehicle and indicates which tests were conducted using the vehicle.

The first line identifies the vehicle by an assigned number.

The second line identifies the following items:

1. Vehicle model year
2. Vehicle make
3. Vehicle model
4. Engine displacement in cubic inches
5. The inertia weight used during vehicle testing
6. The tests performed using the vehicle. HIGH ALTITUDE RETROFIT indicates that in addition to idle inspection the vehicle was also utilized in the high altitude retrofit evaluation. COMBINATION RETROFIT indicates that after the idle inspection evaluation the vehicle was used to evaluate both sea level and altitude retrofits.

The third line identifies these items:

1. Number of cylinders
2. Number of carburetor venturis
3. Transmission type
4. Number of miles the vehicle has been driven
5. Whether or not the vehicle has an emission control system, an evaporative control system, or PCV valve

The fourth line identifies the type of retrofit kit evaluated on the vehicle:

|           |   |                                             |
|-----------|---|---------------------------------------------|
| AMER.MOT. | - | Kit supplied by American Motors Corporation |
| CHRYSLER  | - | Kit supplied by Chrysler Corporation        |
| FORD      | - | Kit supplied by Ford Motor Company          |
| G.M.      | - | Kit supplied by General Motors Corporation  |

The fifth line gives the installation costs of the kit including parts and labor.

## 6.2 WITH DEVICE

The vehicle first underwent a tune-up during which all adjustments were set to manufacturers specifications and defective parts (air cleaner, spark plugs, etc.) were replaced. The initial emission tests were then performed on the vehicle. The data from these tests are presented in this section. The first items are the test number, the date the test was conducted, and the ambient conditions at the time the test was performed. The ambient conditions are:

BAR: barometric pressure in inches of mercury.

DB: dry bulb temperature in degrees Fahrenheit.

WB: wet bulb temperature in degrees Fahrenheit.

REL. HUM: relative humidity in percent.

NOX COR: humidity correction factor applied to the oxides of nitrogen mass emissions.

### 6.2.1 Federal Test Procedure

The first four lines of data are the results of the Federal Test Procedure. These results are reported as follows:

HC - Unburned hydrocarbons emitted during the test phase in grams per mile.

CO - Carbon monoxide emitted during the test phase in grams per mile.

CO<sub>2</sub> - Carbon dioxide emitted during the test phase in grams per mile.

NO<sub>x</sub> - Oxides of nitrogen emitted during the test phase in grams per mile nitrogen dioxide.

MPG - Fuel consumption in miles per gallon for the test phase.

### 6.2.2 Key Mode Test Procedure

The next three lines are data obtained during the key mode test.

These results are presented as follows:

- HC - Concentration of unburned hydrocarbons in exhaust, reported in P.P.M. carbon.
- CO - Concentration of carbon monoxide in exhaust, in mole percent.
- NO<sub>x</sub> - Oxides of nitrogen in exhaust in P.P.M.
- LHC\* - Concentration of unburned hydrocarbons in exhaust, in P.P.M. hexane.
- SHC\* - Concentration of unburned hydrocarbons in exhaust, in P.P.M. hexane as measured with the garage type instrument.
- SCO\* - Concentration of carbon monoxide in exhaust, reported in mole percent as measured with garage type instrument.
- \* - LHC has a full scale value of 1600 P.P.M., SHC has a full scale value of 2000 P.P.M. and SCO has a full scale value of 10%. Off scale readings are reported as asterisks (\*\*\*\*).

### 6.2.3 Idle Test Procedure

Following the keymode test, the unburned hydrocarbons and carbon monoxide concentrations in the exhaust were measured with the engine operating at 2500 RPM and the transmission in neutral. The readings were taken with the garage type equipment and are reported on the last line as described in section 6.2.2.

### 6.2.4 Driveability Evaluation

The last line of the "With Device" test is the number of demerits resulting from the driveability evaluation.

## 6.3 WITHOUT DEVICE

Following the testing sequence with a retrofit kit, the vehicle was returned to a baseline condition. A second emission test and driveability evaluation was then performed to determine the effectiveness

of the kit. These tests followed the format of testing conducted with the kit installed. Data are presented as described in section 6.2.



## 7. LISTING DATA

EXHAUST CONTROL RETROFIT - ALTITUDE KITS

\*\*\* COLORADO-393 \*\*\*

VEHICLE 070

1972 PONT CATA 400 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 016700 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST:12.00 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0153

08/28/73 BAR:24.75 DB:75 WB:56  
REL.HUM:31.8% NOX COR: .893

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.31 | 74.2 | 647.0 | 4.91 | 11.41 |     |     |      |
| COLD STABILIZED | 2.81 | 28.5 | 700.8 | 2.66 | 11.80 |     |     |      |
| HOT TRANSIENT   | 3.10 | 23.6 | 572.3 | 5.47 | 14.38 |     |     |      |
| 1975 COMPOSITE  | 3.41 | 36.7 | 653.9 | 3.91 | 12.33 |     |     |      |
| IDLE KEYMODE    | 3213 | 1.23 |       | 101  |       | 559 | 375 | 1.00 |
| LOW CR. KEYMODE | 1721 | 0.23 |       | 819  |       | 380 | 125 | 0.27 |
| HI. CR. KEYMODE | 2831 | 0.45 |       | 2522 |       | 435 | 260 | 0.45 |
| 2500 RPM        |      |      |       |      |       |     | 70  | 0.65 |

DRIVEABILITY DEMERITS 8

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0173

08/29/73 BAR:24.76 DB:74 WB:58  
REL.HUM:40.1% NOX COR: .936

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.70 | 85.8 | 643.8 | 5.26 | 11.18 |     |     |      |
| COLD STABILIZED | 3.03 | 35.1 | 689.4 | 2.64 | 11.81 |     |     |      |
| HOT TRANSIENT   | 3.27 | 28.2 | 560.6 | 5.62 | 14.47 |     |     |      |
| 1975 COMPOSITE  | 3.66 | 43.8 | 644.1 | 4.02 | 12.29 |     |     |      |
| IDLE KEYMODE    | 2869 | 1.04 |       | 100  |       | 428 | 250 | 3.40 |
| LOW CR. KEYMODE | 1291 | 0.22 |       | 865  |       | 288 | 80  | 0.70 |
| HI. CR. KEYMODE | 2302 | 0.25 |       | 3617 |       | 353 | 160 | 0.28 |
| 2500 RPM        |      |      |       |      |       |     | 40  | 0.35 |

DRIVEABILITY DEMERITS 20

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 077

1972 CHEV IMPA 400 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 027848 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST:12.00

PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0159

08/28/73 BAR:24.77 DB:74 WB:58  
REL.HUM:40.1% NOX COR: .935

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 2.74 | 46.2 | 781.9 | 3.27 | 10.32 |     |     |      |
| COLD STABILIZED | 1.41 | 35.8 | 796.8 | 2.14 | 10.39 |     |     |      |
| HOT TRANSIENT   | 1.84 | 36.2 | 614.7 | 2.79 | 13.15 |     |     |      |
| 1975 COMPOSITE  | 1.81 | 38.0 | 743.2 | 2.56 | 11.01 |     |     |      |
| IDLE KEYMODE    | 2054 | 2.51 |       | 43   |       | 561 | 160 | 2.20 |
| LOW CR. KEYMODE | 1369 | 0.26 |       | 670  |       | 521 | 85  | 0.25 |
| HI. CR. KEYMODE | 1587 | 0.88 |       | 1186 |       | 427 | 100 | 0.75 |
| 2500 RPM        |      |      |       |      |       |     | 45  | 0.20 |

DRIVEABILITY DEMERITS 12

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0172

08/29/73 BAR:24.77 DB:72 WB:56  
REL.HUM:38.6% NOX COR: .911

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 5.61 | 67.9 | 717.4 | 2.96 | 10.58 |      |     |      |
| COLD STABILIZED | 6.26 | 36.6 | 739.9 | 2.20 | 10.90 |      |     |      |
| HOT TRANSIENT   | 6.42 | 49.6 | 565.1 | 2.90 | 13.43 |      |     |      |
| 1975 COMPOSITE  | 6.17 | 46.8 | 686.7 | 2.55 | 11.42 |      |     |      |
| IDLE KEYMODE    | 6153 | 2.52 |       | 57   |       | 1059 | 790 | 1.85 |
| LOW CR. KEYMODE | 3216 | 0.41 |       | 1220 |       | 511  | 220 | 0.32 |
| HI. CR. KEYMODE | 1770 | 1.16 |       | 1261 |       | 349  | 75  | 1.10 |
| 2500 RPM        |      |      |       |      |       |      | 940 | 0.20 |

DRIVEABILITY DEMERITS 9

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 082

1971 PLYM STAW 383 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 050843 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 4.80 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0776

10/26/73 BAR:24.77 DB:73 WB:51  
REL.HUM:21.4% NOX COR: .828

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.85 | 102.9 | 632.4 | 4.32 | 10.92 |     |     |      |
| COLD STABILIZED | 3.80 | 74.1  | 606.2 | 2.55 | 12.12 |     |     |      |
| HOT TRANSIENT   | 3.07 | 57.0  | 516.1 | 3.55 | 14.47 |     |     |      |
| 1975 COMPOSITE  | 4.24 | 75.4  | 586.7 | 3.20 | 12.40 |     |     |      |
| IDLE KEYMODE    | 4016 | 3.74  |       | 63   |       | 283 | 160 | 3.20 |
| LOW CR. KEYMODE | 2619 | 0.25  |       | 1832 |       | 289 | 120 | 0.20 |
| HI. CR. KEYMODE | 2516 | 0.83  |       | 2535 |       | 289 | 150 | 0.80 |
| 2500 RPM        |      |       |       |      |       |     | 80  | 0.30 |

DRIVEABILITY DEMERITS 46

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0756

10/25/73 BAR:24.66 DB:74 WB:49  
REL.HUM:14.4% NOX COR: .799

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.16 | 153.9 | 558.3 | 2.65 | 10.82 |     |     |      |
| COLD STABILIZED | 4.37 | 114.0 | 577.8 | 1.96 | 11.55 |     |     |      |
| HOT TRANSIENT   | 4.33 | 112.0 | 479.6 | 2.63 | 13.31 |     |     |      |
| 1975 COMPOSITE  | 4.94 | 121.8 | 546.5 | 2.29 | 11.82 |     |     |      |
| IDLE KEYMODE    | 4076 | 5.71  |       | 56   |       | 336 | 180 | 4.60 |
| LOW CR. KEYMODE | 2353 | 0.88  |       | 1722 |       | 312 | 140 | 0.50 |
| HI. CR. KEYMODE | 4231 | 10.83 |       | 185  |       | 490 | 270 | 8.40 |
| 2500 RPM        |      |       |       |      |       |     | 55  | 0.30 |

DRIVEABILITY DEMERITS 13

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 091

1973 PONT LEMA 400 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 006704 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST:12.00 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0189

08/30/73 BAR:24.68 DB:74 WB:57  
REL.HUM:37.0% NOX COR: .918

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.74 | 60.8 | 721.9 | 2.43 | 10.70 |     |     |      |
| COLD STABILIZED | 2.40 | 11.4 | 720.7 | 2.73 | 11.93 |     |     |      |
| HOT TRANSIENT   | 2.34 | 15.2 | 566.9 | 5.00 | 14.89 |     |     |      |
| 1975 COMPOSITE  | 2.87 | 22.8 | 678.3 | 3.30 | 12.32 |     |     |      |
| IDLE KEYMODE    | 2497 | 0.23 |       | 238  |       | 524 | 120 | 0.25 |
| LOW CR. KEYMODE | 2557 | 0.11 |       | 1960 |       | 536 | 135 | 0.15 |
| HI. CR. KEYMODE | 2494 | 0.22 |       | 3302 |       | 508 | 130 | 0.25 |
| 2500 RPM        |      |      |       |      |       |     | 35  | 0.80 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0198

08/31/73 BAR:24.53 DB:73 WB:57  
REL.HUM:39.5% NOX COR: .926

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.13 | 67.2 | 674.5 | 2.80 | 11.18 |     |     |      |
| COLD STABILIZED | 3.25 | 35.6 | 678.1 | 2.85 | 11.96 |     |     |      |
| HOT TRANSIENT   | 3.40 | 36.9 | 543.3 | 5.29 | 14.55 |     |     |      |
| 1975 COMPOSITE  | 3.69 | 42.6 | 640.0 | 3.51 | 12.40 |     |     |      |
| IDLE KEYMODE    | 2991 | 2.38 |       | 154  |       | 628 | 190 | 2.25 |
| LOW CR. KEYMODE | 2643 | 0.34 |       | 1879 |       | 579 | 180 | 0.30 |
| HI. CR. KEYMODE | 2786 | 0.69 |       | 3575 |       | 565 | 155 | 0.73 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 1.80 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 098

1972 FORD MAVE 302 3000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 026575 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: FORD

LABOR COST:12.00 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0260

09/08/73 BAR:24.58 DB:72 WB:60  
REL.HUM:52.2% NOX COR: .996

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.58 | 64.9 | 483.0 | 5.07 | 14.62 |     |     |      |
| COLD STABILIZED | 6.15 | 88.9 | 463.6 | 1.97 | 14.30 |     |     |      |
| HOT TRANSIENT   | 6.01 | 56.5 | 420.2 | 4.67 | 16.87 |     |     |      |
| 1975 COMPOSITE  | 6.41 | 74.9 | 455.6 | 3.37 | 15.01 |     |     |      |
| IDLE KEYMODE    | 7402 | 9.09 |       | 45   |       | 733 | 560 | 8.60 |
| LOW CR. KEYMODE | 4007 | 1.09 |       | 1342 |       | 470 | 350 | 1.10 |
| HI. CR. KEYMODE | 4148 | 1.51 |       | 2863 |       | 490 | 320 | 1.50 |
| 2500 RPM        |      |      |       |      |       |     | 190 | 1.80 |

DRIVEABILITY DEMERITS -12

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0251

09/07/73 BAR:24.69 DB:80 WB:60  
REL.HUM:32.8% NOX COR: .936

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.84 | 80.3 | 495.6 | 2.12 | 13.91 |     |     |      |
| COLD STABILIZED | 3.88 | 64.0 | 573.7 | 1.40 | 12.97 |     |     |      |
| HOT TRANSIENT   | 4.82 | 56.4 | 452.2 | 1.92 | 16.01 |     |     |      |
| 1975 COMPOSITE  | 4.55 | 65.3 | 523.7 | 1.69 | 13.90 |     |     |      |
| IDLE KEYMODE    | 4038 | 3.92 |       | 83   |       | 487 | 270 | 3.40 |
| LOW CR. KEYMODE | 3339 | 1.53 |       | 545  |       | 344 | 225 | 1.30 |
| HI. CR. KEYMODE | 4068 | 2.28 |       | 2030 |       | 484 | 300 | 2.30 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 2.00 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
1990 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 099

1971 CHEV BLAZ 350 4000LBS COMBINATION RETROFIT  
8CYL 4BBL 4 SPEED 019987 MILES HAS: EMC, NO EVC, NO PCV

RETROFIT TYPE: G.M.

LABOR COST:12.00 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0261

09/08/73 BAR:24.58 DB:72 WB:60  
REL.HUM:52.2% NOX COR: .996

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.21 | 87.9 | 567.0 | 4.32 | 12.29 |     |     |      |
| COLD STABILIZED | 4.74 | 50.7 | 608.4 | 2.43 | 12.67 |     |     |      |
| HOT TRANSIENT   | 4.38 | 42.8 | 482.3 | 4.55 | 15.80 |     |     |      |
| 1975 COMPOSITE  | 4.95 | 56.3 | 564.8 | 3.41 | 13.32 |     |     |      |
| IDLE KEYMODE    | 4033 | 5.19 |       | 61   |       | 321 | 180 | 4.60 |
| LOW CR. KEYMODE | 1193 | 0.28 |       | 668  |       | 199 | 50  | 0.14 |
| HI. CR. KEYMODE | 2369 | 0.41 |       | 3217 |       | 298 | 135 | 0.18 |
| 2500 RPM        |      |      |       |      |       |     | 35  | 0.14 |

DRIVEABILITY DEMERITS 8

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0252

09/07/73 BAR:24.60 DB:76 WB:56  
REL.HUM:29.8% NOX COR: .888

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.20 | 82.2 | 508.2 | 2.30 | 13.49 |     |     |      |
| COLD STABILIZED | 5.23 | 56.1 | 543.5 | 1.51 | 13.74 |     |     |      |
| HOT TRANSIENT   | 4.60 | 55.6 | 456.2 | 2.11 | 15.95 |     |     |      |
| 1975 COMPOSITE  | 5.47 | 61.4 | 511.9 | 1.84 | 14.24 |     |     |      |
| IDLE KEYMODE    | 3030 | 2.89 |       | 57   |       | 255 | 140 | 2.75 |
| LOW CR. KEYMODE | 1644 | 0.17 |       | 703  |       | 194 | 85  | 0.20 |
| HI. CR. KEYMODE | 1786 | 0.76 |       | 1525 |       | 193 | 80  | 0.70 |
| 2500 RPM        |      |      |       |      |       |     | 55  | 0.50 |

DRIVEABILITY DEMERITS 61

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 100

1969 FORD MUST 302 3000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 047190 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST:12.00 PARTS COST: 1.85

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0268

09/10/73 BAR:24.84 DB:72 WB:60  
REL.HUM:52.0% NOX COR: .992

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.69 | 93.8 | 465.7 | 4.48 | 13.97 |     |     |      |
| COLD STABILIZED | 6.79 | 70.6 | 432.8 | 3.78 | 15.76 |     |     |      |
| HOT TRANSIENT   | 5.18 | 44.7 | 388.4 | 5.06 | 18.75 |     |     |      |
| 1975 COMPOSITE  | 6.53 | 68.3 | 427.4 | 4.28 | 16.04 |     |     |      |
| IDLE KEYMODE    | 6798 | 6.63 |       | 58   |       | 884 | 650 | 6.30 |
| LOW CR. KEYMODE | 4725 | 0.63 |       | 3055 |       | 728 | 450 | 0.65 |
| HI. CR. KEYMODE | 3993 | 0.68 |       | 3445 |       | 552 | 290 | 0.75 |
| 2500 RPM        |      |      |       |      |       |     | 210 | 6.60 |

DRIVEABILITY DEMERITS 10

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0259

09/08/73 BAR:24.58 DB:72 WB:58  
REL.HUM:45.3% NOX COR: .952

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 7.54 | 102.4 | 486.7 | 3.27 | 13.26 |      |     |      |
| COLD STABILIZED | 5.76 | 56.6  | 495.6 | 3.21 | 14.77 |      |     |      |
| HOT TRANSIENT   | 4.75 | 37.0  | 430.5 | 4.24 | 17.68 |      |     |      |
| 1975 COMPOSITE  | 5.85 | 60.7  | 475.7 | 3.51 | 15.11 |      |     |      |
| IDLE KEYMODE    | 6622 | 1.70  |       | 137  |       | 1178 | 900 | 1.70 |
| LOW CR. KEYMODE | 4075 | 0.69  |       | 2365 |       | 541  | 340 | 0.65 |
| HI. CR. KEYMODE | 3386 | 0.73  |       | 2571 |       | 387  | 230 | 0.70 |
| 2500 RPM        |      |       |       |      |       |      | 210 | 1.60 |

DRIVEABILITY DEMERITS 8

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 101

1969 CHEV STAW 327 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 068576 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 9.60 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0227

09/05/73 BAR:24.86 DB:83 WB:57  
REL.HUM:20.2% NOX COR: .860

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.60 | 112.6 | 527.4 | 6.18 | 12.17 |     |     |      |
| COLD STABILIZED | 6.58 | 64.6  | 518.4 | 6.16 | 13.90 |     |     |      |
| HOT TRANSIENT   | 5.64 | 71.1  | 473.0 | 6.97 | 14.78 |     |     |      |
| 1975 COMPOSITE  | 6.74 | 76.4  | 507.7 | 6.39 | 13.72 |     |     |      |
| IDLE KEYMODE    | 4082 | 2.81  |       | 106  |       | 481 | 290 | 2.60 |
| LOW CR. KEYMODE | 3881 | 1.27  |       | 3453 |       | 480 | 280 | 1.30 |
| HI. CR. KEYMODE | 3844 | 1.61  |       | 3861 |       | 401 | 225 | 1.70 |
| 2500 RPM        |      |       |       |      |       |     | 240 | 1.55 |

DRIVEABILITY DEMERITS 47

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0241

09/06/73 BAR:24.70 DB:78 WB:56  
REL.HUM:26.0% NOX COR: .875

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.58 | 116.1 | 522.8 | 4.20 | 12.16 |     |     |      |
| COLD STABILIZED | 5.38 | 60.7  | 531.5 | 3.48 | 13.83 |     |     |      |
| HOT TRANSIENT   | 5.38 | 76.0  | 475.8 | 4.64 | 14.54 |     |     |      |
| 1975 COMPOSITE  | 6.05 | 76.6  | 514.2 | 3.95 | 13.63 |     |     |      |
| IDLE KEYMODE    | 4187 | 3.24  |       | 99   |       | 499 | 390 | 3.20 |
| LOW CR. KEYMODE | 3630 | 0.99  |       | 2496 |       | 417 | 295 | 1.05 |
| HI. CR. KEYMODE | 3453 | 1.39  |       | 2809 |       | 341 | 215 | 1.55 |
| 2500 RPM        |      |       |       |      |       |     | 200 | 1.25 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 117

1970 OLDS CUTL 350 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 053727 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST:12.00 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0287

09/11/73 BAR:24.77 DB:75 WB:61  
REL.HUM:47.1% NOX COR: .993

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.46 | 120.0 | 555.4 | 3.70 | 11.60 |     |     |      |
| COLD STABILIZED | 5.14 | 61.7  | 562.9 | 2.68 | 13.17 |     |     |      |
| HOT TRANSIENT   | 8.58 | 88.3  | 476.7 | 3.77 | 13.86 |     |     |      |
| 1975 COMPOSITE  | 6.58 | 81.3  | 537.4 | 3.20 | 12.98 |     |     |      |
| IDLE KEYMODE    | 2709 | 0.23  |       | 114  |       | 364 | 160 | 0.25 |
| LOW CR. KEYMODE | 4250 | 3.33  |       | 1278 |       | 556 | 340 | 2.80 |
| HI. CR. KEYMODE | 3661 | 2.25  |       | 2637 |       | 448 | 230 | 2.10 |
| 2500 RPM        |      |       |       |      |       |     | 120 | 3.80 |

DRIVEABILITY DEMERITS 152

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0277

09/10/73 BAR:24.88 DB:80 WB:66  
REL.HUM:49.9% NOX COR:1.086

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.14 | 139.2 | 577.8 | 2.33 | 10.83 |     |     |      |
| COLD STABILIZED | 5.09 | 69.7  | 595.1 | 1.74 | 12.35 |     |     |      |
| HOT TRANSIENT   | 8.18 | 94.7  | 507.5 | 2.53 | 13.05 |     |     |      |
| 1975 COMPOSITE  | 6.59 | 91.2  | 567.2 | 2.08 | 12.18 |     |     |      |
| IDLE KEYMODE    | 3094 | 0.24  |       | 92   |       | 555 | 175 | 0.25 |
| LOW CR. KEYMODE | 3891 | 2.89  |       | 650  |       | 725 | 265 | 3.10 |
| HI. CR. KEYMODE | 3681 | 3.33  |       | 1120 |       | 727 | 215 | 3.30 |
| 2500 RPM        |      |       |       |      |       |     | 140 | 3.20 |

DRIVEABILITY DEMERITS 43

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 125

1971 PONT CATA 400 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 029602 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0323

09/13/73 BAR:24.64 DB:78 WB:56  
REL.HUM:26.0% NOX COR: .876

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.87 | 74.9 | 649.6 | 5.57 | 11.33 |     |     |      |
| COLD STABILIZED | 5.46 | 49.9 | 668.2 | 3.84 | 11.66 |     |     |      |
| HOT TRANSIENT   | 5.27 | 33.6 | 572.9 | 6.86 | 13.86 |     |     |      |
| 1975 COMPOSITE  | 5.49 | 50.6 | 637.9 | 5.04 | 12.12 |     |     |      |
| IDLE KEYMODE    | 6070 | 1.97 |       | 468  |       | 870 | 780 | 2.00 |
| LOW CR. KEYMODE | 3367 | 0.73 |       | 2470 |       | 511 | 230 | 0.90 |
| HI. CR. KEYMODE | 2893 | 0.37 |       | 4084 |       | 446 | 155 | 0.38 |
| 2500 RPM        |      |      |       |      |       |     | 260 | 1.30 |

DRIVEABILITY DEMERITS 30

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0281

09/11/73 BAR:24.79 DB:71 WB:62  
REL.HUM:62.4% NOX COR:1.051

| !               | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.03 | 101.0 | 714.3 | 5.82 | 9.98  |     |     |      |
| COLD STABILIZED | 4.78 | 51.5  | 689.1 | 4.34 | 11.34 |     |     |      |
| HOT TRANSIENT   | 4.77 | 46.0  | 597.7 | 7.34 | 13.00 |     |     |      |
| 1975 COMPOSITE  | 5.04 | 60.3  | 669.0 | 5.48 | 11.42 |     |     |      |
| IDLE KEYMODE    | 2836 | 1.51  |       | 152  |       | 313 | 190 | 1.50 |
| LOW CR. KEYMODE | 2771 | 0.67  |       | 2093 |       | 305 | 170 | 0.70 |
| HI. CR. KEYMODE | 2440 | 0.81  |       | 2749 |       | 259 | 125 | 0.85 |
| 2500 RPM        |      |       |       |      |       |     | 280 | 1.60 |

DRIVEABILITY DEMERITS 20

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 133

1970 FORD TORI 351 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 045898 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST:12.00 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0363

09/18/73 BAR:24.78 DB:79 WB:55  
REL.HUM:21.6% NOX COR: .853

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.30 | 65.9 | 549.1 | 3.32 | 13.30 |     |     |      |
| COLD STABILIZED | 3.82 | 56.9 | 517.2 | 2.06 | 14.39 |     |     |      |
| HOT TRANSIENT   | 3.35 | 39.1 | 479.7 | 3.08 | 16.14 |     |     |      |
| 1975 COMPOSITE  | 4.00 | 53.8 | 513.5 | 2.61 | 14.58 |     |     |      |
| IDLE KEYMODE    | 3835 | 4.51 |       | 101  |       | 527 | 295 | 3.50 |
| LOW CR. KEYMODE | 2462 | 0.61 |       | 1349 |       | 410 | 170 | 0.60 |
| HI. CR. KEYMODE | 2547 | 0.87 |       | 2372 |       | 407 | 170 | 0.95 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 0.90 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0382

09/19/73 BAR:24.68 DB:78 WB:54  
REL.HUM:20.8% NOX COR: .844

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.78 | 97.8 | 546.6 | 2.09 | 12.28 |     |     |      |
| COLD STABILIZED | 4.09 | 75.3 | 530.4 | 1.55 | 13.46 |     |     |      |
| HOT TRANSIENT   | 3.94 | 51.5 | 486.3 | 2.15 | 15.36 |     |     |      |
| 1975 COMPOSITE  | 4.82 | 73.4 | 521.6 | 1.83 | 13.66 |     |     |      |
| IDLE KEYMODE    | 4368 | 6.19 |       | 81   |       | 412 | 290 | 5.20 |
| LOW CR. KEYMODE | 2069 | 0.60 |       | 772  |       | 233 | 140 | 0.65 |
| HI. CR. KEYMODE | 2268 | 1.12 |       | 1447 |       | 234 | 145 | 1.20 |
| 2500 RPM        |      |      |       |      |       |     | 80  | 1.25 |

DRIVEABILITY DEMERITS 19

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 139

1970 FORD TORI 250 3500LBS COMBINATION RETROFIT  
6CYL 1BBL 3 SPEED 031895 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 3.60 PARTS COST: 0.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0408

09/21/73 BAR:24.65 DB:74 WB:53  
REL.HUM:25.3% NOX COR: .852

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.91 | 117.8 | 375.4 | 2.26 | 15.29 |     |     |      |
| COLD STABILIZED | 5.72 | 119.3 | 421.5 | 1.84 | 14.20 |     |     |      |
| HOT TRANSIENT   | 5.46 | 98.1  | 348.6 | 2.31 | 17.12 |     |     |      |
| 1975 COMPOSITE  | 5.90 | 113.1 | 391.6 | 2.06 | 15.15 |     |     |      |
| IDLE KEYMODE    | 3830 | 6.56  |       | 84   |       | 213 | 145 | 5.90 |
| LOW CR. KEYMODE | 3569 | 3.22  |       | 1085 |       | 380 | 270 | 3.20 |
| HI. CR. KEYMODE | 3102 | 2.23  |       | 1917 |       | 309 | 190 | 2.40 |
| 2500 RPM        |      |       |       |      |       |     | 190 | 4.50 |

DRIVEABILITY DEMERITS 20

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0375

09/19/73 BAR:24.69 DB:80 WB:54  
REL.HUM:17.7% NOX COR: .833

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.94 | 111.6 | 373.6 | 2.17 | 15.69 |     |     |      |
| COLD STABILIZED | 4.20 | 96.6  | 410.9 | 1.57 | 15.46 |     |     |      |
| HOT TRANSIENT   | 4.50 | 88.3  | 343.2 | 2.10 | 17.95 |     |     |      |
| 1975 COMPOSITE  | 4.65 | 97.4  | 384.3 | 1.84 | 16.13 |     |     |      |
| IDLE KEYMODE    | 3984 | 6.41  |       | 79   |       | 268 | 190 | 6.10 |
| LOW CR. KEYMODE | 3776 | 3.84  |       | 1021 |       | 385 | 290 | 3.90 |
| HI. CR. KEYMODE | 3444 | 2.49  |       | 1896 |       | 385 | 260 | 2.50 |
| 2500 RPM        |      |       |       |      |       |     | 235 | 4.40 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 142

1972 CHEV NOVA 350 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 025592 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST:12.00 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0364

09/18/73 BAR:24.78 DB:82 WB:55  
REL.HUM:17.1% NOX COR: .836

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.07 | 85.0 | 611.8 | 3.53 | 11.75 |     |     |      |
| COLD STABILIZED | 3.45 | 55.0 | 651.2 | 1.81 | 11.90 |     |     |      |
| HOT TRANSIENT   | 3.20 | 56.9 | 511.0 | 2.96 | 14.59 |     |     |      |
| 1975 COMPOSITE  | 3.51 | 61.8 | 604.0 | 2.49 | 12.51 |     |     |      |
| IDLE KEYMODE    | 2731 | 3.07 |       | 139  |       | 364 | 190 | 3.00 |
| LOW CR. KEYMODE | 3154 | 2.91 |       | 1249 |       | 430 | 280 | 2.90 |
| HI. CR. KEYMODE | 2405 | 0.50 |       | 3039 |       | 358 | 170 | 0.55 |
| 2500 RPM        |      |      |       |      |       |     | 135 | 4.10 |

DRIVEABILITY DEMERITS 38

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0378

09/19/73 BAR:24.68 DB:82 WB:55  
REL.HUM:17.2% NOX COR: .837

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.41 | 68.6 | 628.0 | 2.87 | 11.93 |     |     |      |
| COLD STABILIZED | 3.33 | 54.5 | 637.5 | 1.75 | 12.14 |     |     |      |
| HOT TRANSIENT   | 3.19 | 58.2 | 509.8 | 2.34 | 14.57 |     |     |      |
| 1975 COMPOSITE  | 3.31 | 58.4 | 600.1 | 2.14 | 12.68 |     |     |      |
| IDLE KEYMODE    | 2900 | 3.19 |       | 194  |       | 269 | 225 | 3.50 |
| LOW CR. KEYMODE | 2973 | 2.28 |       | 1045 |       | 283 | 220 | 2.20 |
| HI. CR. KEYMODE | 1755 | 0.45 |       | 1647 |       | 190 | 90  | 0.50 |
| 2500 RPM        |      |      |       |      |       |     | 130 | 3.00 |

DRIVEABILITY DEMERITS 8

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 144

1972 FORD GALA 400 4000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 012721 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 9.60 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0406

09/21/73 BAR:24.65 DB:79 WB:56  
REL.HUM:24.2% NOX COR: .870

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.01 | 55.2 | 712.4 | 6.83 | 10.93 |     |     |      |
| COLD STABILIZED | 4.21 | 63.8 | 690.8 | 4.76 | 11.07 |     |     |      |
| HOT TRANSIENT   | 4.10 | 46.3 | 534.0 | 5.76 | 14.37 |     |     |      |
| 1975 COMPOSITE  | 4.34 | 57.2 | 651.8 | 5.47 | 11.79 |     |     |      |
| IDLE KEYMODE    | 3201 | 3.64 |       | 156  |       | 287 | 210 | 3.60 |
| LOW CR. KEYMODE | 2867 | 0.32 |       | 2599 |       | 272 | 185 | 0.30 |
| HI. CR. KEYMODE | 2758 | 0.87 |       | 2962 |       | 249 | 155 | 0.90 |
| 2500 RPM        |      |      |       |      |       |     | 85  | 1.10 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0393

09/20/73 BAR:24.58 DB:78 WB:56  
REL.HUM:26.1% NOX COR: .876

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.10 | 43.4 | 641.1 | 4.34 | 12.33 |     |     |      |
| COLD STABILIZED | 3.40 | 33.8 | 680.2 | 3.36 | 11.97 |     |     |      |
| HOT TRANSIENT   | 4.09 | 36.9 | 542.1 | 4.24 | 14.53 |     |     |      |
| 1975 COMPOSITE  | 3.74 | 36.7 | 633.7 | 3.81 | 12.67 |     |     |      |
| IDLE KEYMODE    | 2204 | 1.35 |       | 162  |       | 271 | 160 | 1.30 |
| LOW CR. KEYMODE | 2700 | 0.81 |       | 1708 |       | 321 | 185 | 0.80 |
| HI. CR. KEYMODE | 2382 | 0.88 |       | 2332 |       | 285 | 145 | 0.93 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 1.20 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 145

1973 FORD MAVE 302 3000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 005516 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 9.60 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0376

09/19/73 BAR:24.68 DB:84 WB:55  
REL.HUM:14.5% NOX COR: .826

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.22 | 64.1 | 524.1 | 1.98 | 13.96 |     |     |      |
| COLD STABILIZED | 3.90 | 70.1 | 526.2 | 1.38 | 13.73 |     |     |      |
| HOT TRANSIENT   | 3.46 | 50.6 | 465.8 | 1.79 | 16.01 |     |     |      |
| 1975 COMPOSITE  | 3.84 | 63.5 | 509.0 | 1.62 | 14.35 |     |     |      |
| IDLE KEYMODE    | 3013 | 1.48 |       | 168  |       | 434 | 255 | 1.35 |
| LOW CR. KEYMODE | 3321 | 1.82 |       | 940  |       | 472 | 280 | 1.55 |
| HI. CR. KEYMODE | 3365 | 1.76 |       | 1297 |       | 489 | 285 | 1.85 |
| 2500 RPM        |      |      |       |      |       |     | 190 | 3.80 |

DRIVEABILITY DEMERITS 9

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0343

09/17/73 BAR:24.85 DB:70 WB:56  
REL.HUM:43.8% NOX COR: .923

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.82 | 64.2 | 519.8 | 2.03 | 14.00 |     |     |      |
| COLD STABILIZED | 3.56 | 55.8 | 552.6 | 1.82 | 13.67 |     |     |      |
| HOT TRANSIENT   | 3.95 | 42.3 | 470.9 | 2.40 | 16.19 |     |     |      |
| 1975 COMPOSITE  | 3.93 | 53.8 | 523.1 | 2.03 | 14.36 |     |     |      |
| IDLE KEYMODE    | 2945 | 1.10 |       | 123  |       | 545 | 240 | 1.30 |
| LOW CR. KEYMODE | 3077 | 1.10 |       | 1140 |       | 531 | 230 | 1.20 |
| HI. CR. KEYMODE | 3185 | 1.42 |       | 1430 |       | 548 | 245 | 1.50 |
| 2500 RPM        |      |      |       |      |       |     | 115 | 1.70 |

DRIVEABILITY DEMERITS 22

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 146

1969 OLDS DELT 455 4000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 061594 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0407

09/21/73 BAR:24.65 DB:77 WB:55  
REL.HUM:25.2% NOX COR: .865

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.78 | 145.4 | 542.5 | 4.07 | 11.19 |     |     |      |
| COLD STABILIZED | 5.30 | 121.8 | 558.0 | 3.21 | 11.62 |     |     |      |
| HOT TRANSIENT   | 4.24 | 84.5  | 484.7 | 4.61 | 14.11 |     |     |      |
| 1975 COMPOSITE  | 5.52 | 116.4 | 534.4 | 3.78 | 12.12 |     |     |      |
| IDLE KEYMODE    | 3696 | 6.05  |       | 73   |       | 355 | 215 | 6.50 |
| LOW CR. KEYMODE | 3067 | 2.05  |       | 1676 |       | 363 | 195 | 2.20 |
| HI. CR. KEYMODE | 2750 | 2.24  |       | 2600 |       | 332 | 160 | 2.35 |
| 2500 RPM        |      |       |       |      |       |     | 200 | 4.30 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0392

09/20/73 BAR:24.68 DB:78 WB:56  
REL.HUM:26.0% NOX COR: .875

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.53 | 155.2 | 536.1 | 3.08 | 11.08 |     |     |      |
| COLD STABILIZED | 5.33 | 131.1 | 563.7 | 2.46 | 11.32 |     |     |      |
| HOT TRANSIENT   | 4.54 | 99.7  | 485.9 | 3.27 | 13.56 |     |     |      |
| 1975 COMPOSITE  | 5.57 | 127.5 | 536.3 | 2.82 | 11.81 |     |     |      |
| IDLE KEYMODE    | 3926 | 6.54  |       | 64   |       | 361 | 250 | 6.80 |
| LOW CR. KEYMODE | 3134 | 2.78  |       | 1270 |       | 362 | 230 | 2.80 |
| HI. CR. KEYMODE | 2777 | 2.54  |       | 1885 |       | 300 | 175 | 2.65 |
| 2500 RPM        |      |       |       |      |       |     | 210 | 4.30 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
1990 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 150

1971 DODG DART 318 3000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 026700 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST:12.00 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0423

09/24/73 BAR:24.49 DB:81 WB:54  
REL.HUM:16.5% NOX COR: .830

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.79 | 21.5 | 513.5 | 4.15 | 15.92 |     |     |      |
| COLD STABILIZED | 3.70 | 21.7 | 497.5 | 2.61 | 16.39 |     |     |      |
| HOT TRANSIENT   | 3.03 | 12.3 | 434.8 | 3.97 | 19.21 |     |     |      |
| 1975 COMPOSITE  | 3.53 | 19.1 | 483.5 | 3.31 | 16.98 |     |     |      |
| IDLE KEYMODE    | 4061 | 1.04 |       | 77   |       | 558 | 450 | 0.90 |
| LOW CR. KEYMODE | 3102 | 0.16 |       | 1621 |       | 370 | 200 | 0.19 |
| HI. CR. KEYMODE | 2493 | 0.30 |       | 2924 |       | 300 | 160 | 0.30 |
| 2500 RPM        |      |      |       |      |       |     | 85  | 0.25 |

DRIVEABILITY DEMERITS 20

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0405

09/21/73 BAR:24.65 DB:80 WB:56  
REL.HUM:22.6% NOX COR: .864

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.71 | 54.2 | 475.1 | 2.82 | 15.48 |     |     |      |
| COLD STABILIZED | 3.85 | 46.9 | 483.3 | 1.81 | 15.65 |     |     |      |
| HOT TRANSIENT   | 3.68 | 39.5 | 431.4 | 2.95 | 17.63 |     |     |      |
| 1975 COMPOSITE  | 3.98 | 46.4 | 467.2 | 2.34 | 16.12 |     |     |      |
| IDLE KEYMODE    | 3101 | 1.67 |       | 81   |       | 377 | 190 | 1.60 |
| LOW CR. KEYMODE | 3629 | 1.13 |       | 1769 |       | 443 | 250 | 1.40 |
| HI. CR. KEYMODE | 3418 | 2.07 |       | 1943 |       | 395 | 200 | 2.20 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 1.10 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 152

1971 FORD GALA 351 4000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 029562 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST:12.00 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0424

09/24/73 BAR:24.49 DB:78 WB:54  
REL.HUM:21.0% NOX COR: .846

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.40 | 66.2 | 605.2 | 5.57 | 12.26 |     |     |      |
| COLD STABILIZED | 3.18 | 32.3 | 636.1 | 4.17 | 12.78 |     |     |      |
| HOT TRANSIENT   | 3.86 | 29.0 | 523.1 | 6.03 | 15.33 |     |     |      |
| 1975 COMPOSITE  | 3.83 | 38.5 | 598.3 | 4.98 | 13.28 |     |     |      |
| IDLE KEYMODE    | 1662 | 0.87 |       | 192  |       | 256 | 135 | 0.95 |
| LOW CR. KEYMODE | 2917 | 0.67 |       | 2403 |       | 402 | 240 | 0.75 |
| HI. CR. KEYMODE | 2543 | 0.51 |       | 3496 |       | 339 | 170 | 0.55 |
| 2500 RPM        |      |      |       |      |       |     | 200 | 1.50 |

DRIVEABILITY DEMERITS 5

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0410

09/22/73 BAR:24.67 DB:72 WB:56  
REL.HUM:38.7% NOX COR: .912

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.98 | 69.2 | 615.3 | 5.28 | 12.04 |     |     |      |
| COLD STABILIZED | 3.26 | 37.1 | 634.9 | 3.78 | 12.66 |     |     |      |
| HOT TRANSIENT   | 4.60 | 47.3 | 504.5 | 4.81 | 15.01 |     |     |      |
| 1975 COMPOSITE  | 3.99 | 46.7 | 594.6 | 4.38 | 13.09 |     |     |      |
| IDLE KEYMODE    | 2098 | 1.03 |       | 184  |       | 200 | 120 | 1.00 |
| LOW CR. KEYMODE | 3101 | 0.72 |       | 2209 |       | 335 | 210 | 0.70 |
| HI. CR. KEYMODE | 2852 | 1.07 |       | 2862 |       | 303 | 170 | 1.25 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 1.00 |

DRIVEABILITY DEMERITS 7

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 155

1968 CHEV BELA 307 4000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 066417 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0450

09/26/73 BAR:24.85 DB:70 WB:52  
REL.HUM:30.5% NOX COR: .858

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 7.48 | 105.7 | 572.9 | 5.82 | 11.68 |      |     |      |
| COLD STABILIZED | 5.48 | 43.5  | 554.8 | 4.29 | 13.90 |      |     |      |
| HOT TRANSIENT   | 4.74 | 45.3  | 501.6 | 6.17 | 15.15 |      |     |      |
| 1975 COMPOSITE  | 5.69 | 57.0  | 543.8 | 5.13 | 13.67 |      |     |      |
| IDLE KEYMODE    | 4538 | 0.28  |       | 530  |       | **** | 385 | 0.25 |
| LOW CR. KEYMODE | 4225 | 1.62  |       | 2093 |       | 541  | 320 | 1.60 |
| HI. CR. KEYMODE | 3591 | 1.21  |       | 3828 |       | 434  | 230 | 1.10 |
| 2500 RPM        |      |       |       |      |       |      | 195 | 1.70 |

DRIVEABILITY DEMERITS 12

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0418

09/24/73 BAR:24.57 DB:71 WB:57  
REL.HUM:44.7% NOX COR: .939

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.12 | 128.8 | 507.2 | 4.25 | 12.01 |     |     |      |
| COLD STABILIZED | 6.56  | 67.1  | 502.8 | 3.54 | 14.16 |     |     |      |
| HOT TRANSIENT   | 5.36  | 64.2  | 467.9 | 4.96 | 15.20 |     |     |      |
| 1975 COMPOSITE  | 6.97  | 79.2  | 494.0 | 4.08 | 13.90 |     |     |      |
| IDLE KEYMODE    | 5124  | 1.98  |       | 132  |       | 725 | 565 | 2.00 |
| LOW CR. KEYMODE | 4110  | 1.56  |       | 1917 |       | 555 | 330 | 1.65 |
| HI. CR. KEYMODE | 3612  | 1.17  |       | 2661 |       | 449 | 245 | 1.20 |
| 2500 RPM        |       |       |       |      |       |     | 250 | 1.60 |

DRIVEABILITY DEMERITS 11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 161

1969 MERC COUG 351-3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 047191 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 8.40 PARTS COST: 1.85

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0435

09/25/73 BAR:24.48 DB:80 WB:58  
REL.HUM:27.7% NOX COR: .900

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.12 | 49.8 | 557.0 | 8.01 | 13.47 |     |     |      |
| COLD STABILIZED | 5.73 | 22.3 | 520.5 | 6.24 | 15.52 |     |     |      |
| HOT TRANSIENT   | 4.64 | 17.4 | 477.2 | 8.22 | 17.15 |     |     |      |
| 1975 COMPOSITE  | 5.93 | 26.7 | 516.1 | 7.16 | 15.44 |     |     |      |
| IDLE KEYMODE    | 3567 | 1.48 |       | 87   |       | 332 | 190 | 1.50 |
| LOW CR. KEYMODE | 4177 | 0.20 |       | 3658 |       | 529 | 330 | 0.25 |
| HI. CR. KEYMODE | 3824 | 0.62 |       | 4568 |       | 480 | 285 | 0.64 |
| 2500 RPM        |      |      |       |      |       |     | 125 | 0.65 |

DRIVEABILITY DEMERITS 6

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0451

09/26/73 BAR:24.85 DB:71 WB:53  
REL.HUM:31.4% NOX COR: .867

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.93 | 40.9 | 558.2 | 7.78 | 13.82 |     |     |      |
| COLD STABILIZED | 4.62 | 19.9 | 535.4 | 5.96 | 15.32 |     |     |      |
| HOT TRANSIENT   | 4.57 | 16.6 | 478.6 | 8.25 | 17.15 |     |     |      |
| 1975 COMPOSITE  | 5.09 | 23.4 | 524.4 | 6.98 | 15.43 |     |     |      |
| IDLE KEYMODE    | 3362 | 1.37 |       | 92   |       | 315 | 190 | 1.40 |
| LOW CR. KEYMODE | 4103 | 0.18 |       | 2984 |       | 596 | 285 | 0.17 |
| HI. CR. KEYMODE | 3980 | 0.54 |       | 5013 |       | 536 | 285 | 0.50 |
| 2500 RPM        |      |      |       |      |       |     | 100 | 0.45 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 173

1972 OLDS CUTL 350 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 026639 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0465

09/27/73 BAR:24.99 DB:70 WB:54  
REL.HUM:36.9% NOX COR: .887

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.62 | 127.4 | 574.1 | 3.29 | 11.20 |     |     |      |
| COLD STABILIZED | 5.29 | 134.3 | 558.0 | 1.33 | 11.33 |     |     |      |
| HOT TRANSIENT   | 4.48 | 73.2  | 490.8 | 2.93 | 14.36 |     |     |      |
| 1975 COMPOSITE  | 5.34 | 115.9 | 542.7 | 2.19 | 12.01 |     |     |      |
| IDLE KEYMODE    | 4053 | 5.05  |       | 86   |       | 673 | 265 | 4.80 |
| LOW CR. KEYMODE | 3785 | 3.92  |       | 337  |       | 685 | 230 | 3.80 |
| HI. CR. KEYMODE | 3274 | 1.23  |       | 2244 |       | 629 | 180 | 1.20 |
| 2500 RPM        |      |       |       |      |       |     | 110 | 2.40 |

DRIVEABILITY DEMERITS 36

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0479

09/28/73 BAR:24.83 DB:71 WB:52  
REL.HUM:28.3% NOX COR: .852

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.28 | 111.1 | 596.2 | 4.49 | 11.26 |     |     |      |
| COLD STABILIZED | 5.37 | 114.7 | 548.3 | 1.87 | 11.94 |     |     |      |
| HOT TRANSIENT   | 5.01 | 72.7  | 511.7 | 4.44 | 13.88 |     |     |      |
| 1975 COMPOSITE  | 5.46 | 102.3 | 548.2 | 3.13 | 12.27 |     |     |      |
| IDLE KEYMODE    | 4394 | 5.04  |       | 84   |       | 495 | 250 | 5.00 |
| LOW CR. KEYMODE | 4592 | 3.82  |       | 760  |       | 632 | 310 | 4.10 |
| HI. CR. KEYMODE | 3472 | 0.76  |       | 3144 |       | 423 | 170 | 0.80 |
| 2500 RPM        |      |       |       |      |       |     | 110 | 3.20 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 182

1968 CHEV CAME 327 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 083926 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0501

10/02/73 BAR:24.67 DB:75 WB:54  
REL.HUM:26.1% NOX COR: .861

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.59 | 148.9 | 479.9 | 3.55 | 11.91 |     |     |      |
| COLD STABILIZED | 7.45  | 83.4  | 464.5 | 3.11 | 14.38 |     |     |      |
| HOT TRANSIENT   | 9.40  | 82.6  | 419.3 | 3.93 | 15.38 |     |     |      |
| 1975 CCMPOSITE  | 8.65  | 96.9  | 455.2 | 3.43 | 14.03 |     |     |      |
| IDLE KEYMODE    | 5895  | 3.98  |       | 298  |       | 837 | 680 | 3.80 |
| LOW CR. KEYMODE | 4629  | 2.04  |       | 1826 |       | 655 | 420 | 1.90 |
| HI. CR. KEYMODE | 4297  | 2.52  |       | 2333 |       | 573 | 330 | 2.50 |
| 2500 RPM        |       |       |       |      |       |     | 350 | 3.10 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0524

10/03/73 BAR:24.81 DB:73 WB:54  
REL.HUM:30.1% NOX COR: .871

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.71 | 132.4 | 445.7 | 2.32 | 12.95 |     |     |      |
| COLD STABILIZED | 6.37  | 86.3  | 434.5 | 1.78 | 15.09 |     |     |      |
| HOT TRANSIENT   | 6.90  | 87.3  | 378.2 | 2.44 | 16.58 |     |     |      |
| 1975 COMPOSITE  | 7.42  | 96.2  | 421.2 | 2.08 | 14.95 |     |     |      |
| IDLE KEYMODE    | 5780  | 4.10  |       | 147  |       | 909 | 460 | 4.20 |
| LOW CR. KEYMODE | 4592  | 2.58  |       | 994  |       | 765 | 300 | 2.70 |
| HI. CR. KEYMODE | 4278  | 3.07  |       | 1662 |       | 708 | 240 | 0.90 |
| 2500 RPM        |       |       |       |      |       |     | 220 | 1.00 |

DRIVEABILITY DEMERITS 7

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 184

1971 CHEV IMPA 350 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 035988 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 6.00 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0508

10/02/73 BAR:24.63 DB:78 WB:56  
REL.HUM:26.0% NOX COR: .876

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.48 | 78.3 | 591.2 | 3.43 | 12.17 |     |     |      |
| COLD STABILIZED | 3.04 | 17.2 | 634.5 | 2.97 | 13.27 |     |     |      |
| HOT TRANSIENT   | 3.55 | 53.9 | 504.8 | 3.21 | 14.82 |     |     |      |
| 1975 COMPOSITE  | 3.69 | 40.2 | 589.5 | 3.13 | 13.41 |     |     |      |
| IDLE KEYMODE    | 3208 | 1.40 |       | 134  |       | 435 | 285 | 1.50 |
| LOW CR. KEYMODE | 2567 | 0.39 |       | 1298 |       | 369 | 140 | 0.25 |
| HI. CR. KEYMODE | 2202 | 0.30 |       | 2612 |       | 336 | 120 | 0.35 |
| 2500 RPM        |      |      |       |      |       |     | 70  | 0.80 |

DRIVEABILITY DEMERITS 1

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0526

10/03/73 BAR:24.82 DB:69 WB:56  
REL.HUM:46.6% NOX COR: .930

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.75 | 99.8 | 627.7 | 3.02 | 11.09 |     |     |      |
| COLD STABILIZED | 3.14 | 31.0 | 655.2 | 2.56 | 12.48 |     |     |      |
| HOT TRANSIENT   | 3.58 | 55.9 | 529.7 | 3.02 | 14.16 |     |     |      |
| 1975 COMPOSITE  | 3.81 | 52.3 | 614.7 | 2.78 | 12.57 |     |     |      |
| IDLE KEYMODE    | 2301 | 1.33 |       | 70   |       | 561 | 85  | 1.30 |
| LOW CR. KEYMODE | 1370 | 0.20 |       | 593  |       | 538 | 50  | 0.20 |
| HI. CR. KEYMODE | 1983 | 0.40 |       | 2052 |       | 537 | 62  | 0.40 |
| 2500 RPM        |      |      |       |      |       |     | 39  | 1.00 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 187

1973 FORD LTD 351 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 004725 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 6.00 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0510

10/02/73 BAR:24.62 DB:75 WB:54  
REL.HUM:26.2% NOX COR: .862

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.85 | 114.2 | 720.8 | 2.36 | 9.66  |     |     |      |
| COLD STABILIZED | 3.79 | 68.2  | 698.0 | 1.86 | 10.90 |     |     |      |
| HOT TRANSIENT   | 3.38 | 66.0  | 606.4 | 2.19 | 12.35 |     |     |      |
| 1975 COMPOSITE  | 4.32 | 77.2  | 677.4 | 2.06 | 10.96 |     |     |      |
| IDLE KEYMODE    | 1726 | 0.70  |       | 99   |       | 323 | 100 | 0.70 |
| LOW CR. KEYMODE | 2546 | 1.71  |       | 959  |       | 421 | 170 | 1.80 |
| HI. CR. KEYMODE | 2530 | 1.63  |       | 1298 |       | 427 | 160 | 1.70 |
| 2500 RPM        |      |       |       |      |       |     | 80  | 2.20 |

DRIVEABILITY DEMERITS 6

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0525

10/03/73 BAR:24.82 DB:69 WB:56  
REL.HUM:46.6% NOX COR: .930

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.09 | 115.6 | 659.9 | 1.90 | 10.35 |     |     |      |
| COLD STABILIZED | 3.86 | 75.7  | 694.1 | 1.86 | 10.79 |     |     |      |
| HOT TRANSIENT   | 4.07 | 73.7  | 566.0 | 1.81 | 12.82 |     |     |      |
| 1975 COMPOSITE  | 4.39 | 83.5  | 651.4 | 1.85 | 11.18 |     |     |      |
| IDLE KEYMODE    | 2041 | 0.44  |       | 86   |       | 565 | 80  | 0.39 |
| LOW CR. KEYMODE | 3086 | 1.60  |       | 1004 |       | 643 | 130 | 1.70 |
| HI. CR. KEYMODE | 2832 | 1.80  |       | 982  |       | 596 | 115 | 1.70 |
| 2500 RPM        |      |       |       |      |       |     | 60  | 2.60 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 188

1971 MERC COUG 351 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 017215 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 6.00 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0509

10/02/73 BAR:24.62 DB:75 WB:54  
REL.HUM:26.2% NOX COR: .862

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.38 | 61.4 | 578.0 | 5.08 | 12.88 |     |     |      |
| COLD STABILIZED | 4.21 | 49.2 | 552.0 | 4.07 | 13.86 |     |     |      |
| HOT TRANSIENT   | 4.20 | 34.4 | 498.8 | 5.97 | 15.73 |     |     |      |
| 1975 COMPOSITE  | 4.45 | 47.7 | 542.7 | 4.81 | 14.10 |     |     |      |
| IDLE KEYMODE    | 3486 | 2.68 |       | 78   |       | 289 | 210 | 3.00 |
| LOW CR. KEYMODE | 3813 | 0.30 |       | 2562 |       | 440 | 225 | 0.20 |
| HI. CR. KEYMODE | 3209 | 0.97 |       | 2984 |       | 346 | 190 | 0.95 |
| 2500 RPM        |      |      |       |      |       |     | 115 | 0.50 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0483

10/01/73 BAR:24.74 DB:70 WB:54  
REL.HUM:37.1% NOX COR: .890

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.74 | 84.1 | 591.4 | 5.33 | 11.85 |     |     |      |
| COLD STABILIZED | 4.74 | 54.4 | 611.4 | 4.84 | 12.51 |     |     |      |
| HOT TRANSIENT   | 4.91 | 48.6 | 537.3 | 6.06 | 14.16 |     |     |      |
| 1975 COMPOSITE  | 5.63 | 59.0 | 586.6 | 5.28 | 12.78 |     |     |      |
| IDLE KEYMODE    | 3826 | 2.60 |       | 177  |       | 449 | 250 | 2.60 |
| LOW CR. KEYMODE | 3461 | 0.36 |       | 2923 |       | 426 | 180 | 0.30 |
| HI. CR. KEYMODE | 3091 | 0.83 |       | 3008 |       | 372 | 130 | 0.75 |
| 2500 RPM        |      |      |       |      |       |     | 80  | 0.50 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 194

1968 CHEV IMPA 327 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 054000 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 9.60 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0584

10/09/73 BAR:24.38 DB:71 WB:53  
REL.HUM:31.8% NOX COR: .872

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.12 | 112.8 | 481.6 | 4.71 | 13.01 |     |     |      |
| COLD STABILIZED | 7.28 | 128.3 | 456.0 | 2.01 | 13.08 |     |     |      |
| HOT TRANSIENT   | 6.87 | 111.9 | 432.4 | 3.21 | 14.14 |     |     |      |
| 1975 COMPOSITE  | 7.34 | 120.5 | 454.8 | 2.91 | 13.35 |     |     |      |
| IDLE KEYMODE    | 4940 | 3.81  |       | 84   |       | 579 | 290 | 3.30 |
| LOW CR. KEYMODE | 5045 | 4.99  |       | 1062 |       | 741 | 360 | 4.40 |
| HI. CR. KEYMODE | 4462 | 3.51  |       | 2075 |       | 668 | 280 | 3.00 |
| 2500 RPM        |      |       |       |      |       |     | 270 | 4.40 |

DRIVEABILITY DEMERITS 44

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0595

10/10/73 BAR:24.68 DB:72 WB:52  
REL.HUM:26.3% NOX COR: .848

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.59 | 180.8 | 474.3 | 2.13 | 11.24 |     |     |      |
| COLD STABILIZED | 6.03  | 120.1 | 478.5 | 1.49 | 12.98 |     |     |      |
| HOT TRANSIENT   | 5.42  | 99.7  | 411.5 | 2.33 | 15.21 |     |     |      |
| 1975 COMPOSITE  | 6.82  | 127.2 | 459.0 | 1.86 | 13.09 |     |     |      |
| IDLE KEYMODE    | 4760  | 3.75  |       | 83   |       | 864 | 230 | 3.10 |
| LOW CR. KEYMODE | 4348  | 4.45  |       | 846  |       | 865 | 255 | 3.60 |
| HI. CR. KEYMODE | 3917  | 3.04  |       | 1671 |       | 766 | 190 | 2.40 |
| 2500 RPM        |       |       |       |      |       |     | 210 | 4.00 |

DRIVEABILITY DEMERITS 44

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 195

1973 CHEV CHEV 350 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 006886 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST:12.00 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0552

10/05/73 BAR:24.72 DB:76 WB:52  
REL.HUM:18.9% NOX COR: .826

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 7.93  | 119.7 | 550.2 | 1.86 | 11.67 |      |     |      |
| COLD STABILIZED | 4.03  | 28.1  | 575.4 | 2.05 | 14.08 |      |     |      |
| HOT TRANSIENT   | 5.00  | 57.9  | 468.2 | 1.72 | 15.49 |      |     |      |
| 1975 COMPOSITE  | 5.11  | 55.5  | 540.4 | 1.92 | 13.83 |      |     |      |
| IDLE KEYMODE    | 14311 | 0.28  |       | 23   |       | 3333 | 710 | 0.19 |
| LOW CR. KEYMODE | 3967  | 0.22  |       | 1289 |       | 1085 | 180 | 0.20 |
| HI. CR. KEYMODE | 2335  | 1.38  |       | 1151 |       | 814  | 100 | 1.40 |
| 2500 RPM        |       |       |       |      |       |      | 116 | 2.20 |

DRIVEABILITY DEMERITS 14

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0569

10/08/73 BAR:24.43 DB:74 WB:49  
REL.HUM:14.6% NOX COR: .801

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 6.97 | 113.4 | 635.1 | 1.66 | 10.66 |      |     |      |
| COLD STABILIZED | 3.04 | 26.7  | 641.7 | 1.34 | 12.85 |      |     |      |
| HOT TRANSIENT   | 3.29 | 66.7  | 521.0 | 1.07 | 14.00 |      |     |      |
| 1975 COMPOSITE  | 3.93 | 55.9  | 606.8 | 1.33 | 12.60 |      |     |      |
| IDLE KEYMODE    | 6008 | 0.21  |       | 31   |       | 1260 | 350 | 0.12 |
| LOW CR. KEYMODE | 2254 | 0.32  |       | 535  |       | 654  | 120 | 0.20 |
| HI. CR. KEYMODE | 2257 | 4.56  |       | 289  |       | 588  | 130 | 3.80 |
| 2500. RPM       |      |       |       |      |       |      | 70  | 0.35 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 196

1971 CHEV CAPR 400 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 036250 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0554

10/05/73 BAR:24.68 DB:74 WB:52  
REL.HUM:22.4% NOX COR: .837

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.74 | 93.0 | 642.5 | 6.62 | 10.99 |     |     |      |
| COLD STABILIZED | 4.21 | 34.7 | 626.5 | 4.87 | 12.83 |     |     |      |
| HOT TRANSIENT   | 4.45 | 49.9 | 563.0 | 6.97 | 13.58 |     |     |      |
| 1975 COMPOSITE  | 4.80 | 51.1 | 612.2 | 5.82 | 12.59 |     |     |      |
| IDLE KEYMODE    | 3093 | 0.17 |       | 115  |       | 704 | 220 | 0.20 |
| LOW CR. KEYMODE | 2970 | 0.22 |       | 2861 |       | 700 | 160 | 0.25 |
| HI. CR. KEYMODE | 3200 | 1.68 |       | 3167 |       | 674 | 170 | 1.60 |
| 2500 RPM        |      |      |       |      |       |     | 70  | 0.90 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0570

10/08/73 BAR:24.42 DB:72 WB:48  
REL.HUM:15.2% NOX COR: .799

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.13 | 99.1 | 594.5 | 4.83 | 11.57 |     |     |      |
| COLD STABILIZED | 3.76 | 35.1 | 619.6 | 4.18 | 12.97 |     |     |      |
| HOT TRANSIENT   | 3.84 | 54.0 | 541.5 | 5.18 | 13.95 |     |     |      |
| 1975 COMPOSITE  | 4.28 | 53.8 | 592.7 | 4.59 | 12.90 |     |     |      |
| IDLE KEYMODE    | 3108 | 0.50 |       | 111  |       | 655 | 215 | 0.50 |
| LOW CR. KEYMODE | 2584 | 0.21 |       | 2362 |       | 594 | 140 | 0.20 |
| HI. CR. KEYMODE | 2833 | 1.65 |       | 2528 |       | 583 | 150 | 1.60 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 1.80 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 200

1972 CHEV NOVA 307 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 015710 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0567

10/08/73 BAR:24.45 DB:72 WB:48  
REL.HUM:15.1% NOX COR: .799

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.54 | 100.7 | 543.7 | 2.70 | 12.27 |     |     |      |
| COLD STABILIZED | 4.78 | 37.8  | 550.4 | 2.23 | 14.25 |     |     |      |
| HOT TRANSIENT   | 4.70 | 56.2  | 450.8 | 2.19 | 16.08 |     |     |      |
| 1975 COMPOSITE  | 5.34 | 56.1  | 521.4 | 2.32 | 14.22 |     |     |      |
| IDLE KEYMODE    | 4555 | 1.98  |       | 194  |       | 809 | 370 | 1.70 |
| LOW CR. KEYMODE | 4033 | 1.68  |       | 993  |       | 677 | 240 | 1.60 |
| HI. CR. KEYMODE | 4301 | 2.74  |       | 1334 |       | 695 | 230 | 2.50 |
| 2500 RPM        |      |       |       |      |       |     | 110 | 2.30 |

DRIVEABILITY DEMERITS 9

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0582

10/09/73 BAR:24.37 DB:71 WB:53  
REL.HUM:31.8% NOX COR: .872

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.53 | 174.8 | 528.5 | 0.98 | 10.69 |     |     |      |
| COLD STABILIZED | 5.57 | 68.7  | 563.5 | 1.53 | 12.92 |     |     |      |
| HOT TRANSIENT   | 5.68 | 106.8 | 450.0 | 1.33 | 14.01 |     |     |      |
| 1975 COMPOSITE  | 6.43 | 101.5 | 524.7 | 1.36 | 12.64 |     |     |      |
| IDLE KEYMODE    | 4551 | 2.16  |       | 149  |       | 628 | 315 | 1.40 |
| LOW CR. KEYMODE | 4327 | 2.56  |       | 806  |       | 566 | 225 | 2.30 |
| HI. CR. KEYMODE | 6108 | 10.29 |       | 141  |       | 783 | 355 | 9.00 |
| 2500 RPM        |      |       |       |      |       |     | 115 | 2.10 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 204

1970 FORD GALA 390 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 020723 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST:12.00 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0600

10/10/73 BAR:24.65 DB:71 WB:52  
REL.HUM:28.4% NOX COR: .854

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.66 | 114.4 | 588.6 | 3.24 | 11.33 |     |     |      |
| COLD STABILIZED | 3.62 | 74.6  | 676.3 | 2.70 | 11.06 |     |     |      |
| HOT TRANSIENT   | 4.23 | 80.6  | 579.7 | 3.50 | 12.38 |     |     |      |
| 1975 COMPOSITE  | 4.22 | 84.6  | 631.1 | 3.03 | 11.46 |     |     |      |
| IDLE KEYMODE    | 1678 | 0.09  |       | 221  |       | 264 | 70  | 0.12 |
| LOW CR. KEYMODE | 3347 | 2.84  |       | 1360 |       | 518 | 150 | 2.44 |
| HI. CR. KEYMODE | 3020 | 3.13  |       | 1599 |       | 477 | 120 | 2.70 |
| 2500 RPM        |      |       |       |      |       |     | 55  | 2.70 |

DRIVEABILITY DEMERITS 9

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0603

10/11/73 BAR:24.48 DB:70 WB:53  
REL.HUM:34.0% NOX COR: .877

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.05 | 196.6 | 643.2 | 3.00 | 9.08  |     |     |      |
| COLD STABILIZED | 3.77 | 83.8  | 690.6 | 2.44 | 10.68 |     |     |      |
| HOT TRANSIENT   | 4.66 | 96.4  | 571.0 | 3.40 | 12.08 |     |     |      |
| 1975 COMPOSITE  | 5.12 | 110.9 | 647.5 | 2.82 | 10.63 |     |     |      |
| IDLE KEYMODE    | 1723 | 0.14  |       | 217  |       | 291 | 75  | 0.18 |
| LOW CR. KEYMODE | 3356 | 3.27  |       | 1516 |       | 516 | 155 | 2.80 |
| HI. CR. KEYMODE | 2250 | 2.37  |       | 1591 |       | 392 | 80  | 2.00 |
| 2500 RPM        |      |       |       |      |       |     | 60  | 2.70 |

DRIVEABILITY DEMERITS 15

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 205

1969 CHEV STAW 350 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 093878 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 9.60 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0583

10/09/73 BAR:24.38 DB:71 WB:52  
REL.HUM:28.7% NOX COR: .857

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.07 | 105.4 | 567.5 | 6.92 | 11.74 |     |     |      |
| COLD STABILIZED | 5.80 | 48.6  | 567.5 | 5.06 | 13.45 |     |     |      |
| HOT TRANSIENT   | 4.60 | 35.2  | 474.2 | 6.80 | 16.37 |     |     |      |
| 1975 COMPOSITE  | 5.94 | 56.8  | 541.6 | 5.93 | 13.71 |     |     |      |
| IDLE KEYMODE    | 3872 | 1.07  |       | 207  |       | 531 | 230 | 0.55 |
| LOW CR. KEYMODE | 4435 | 1.69  |       | 2658 |       | 690 | 310 | 1.60 |
| HI. CR. KEYMODE | 3797 | 0.74  |       | 4348 |       | 588 | 230 | 0.60 |
| 2500 RPM        |      |       |       |      |       |     | 150 | 2.10 |

DRIVEABILITY DEMERITS 1

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0594

10/10/73 BAR:24.68 DB:72 WB:53  
REL.HUM:29.3% NOX COR: .863

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.67 | 106.4 | 599.8 | 4.84 | 11.30 |     |     |      |
| COLD STABILIZED | 5.23 | 52.5  | 595.0 | 3.36 | 12.83 |     |     |      |
| HOT TRANSIENT   | 4.88 | 53.4  | 526.1 | 4.97 | 14.24 |     |     |      |
| 1975 COMPOSITE  | 5.44 | 64.0  | 576.9 | 4.12 | 12.82 |     |     |      |
| IDLE KEYMODE    | 3883 | 0.63  |       | 203  |       | 630 | 210 | 0.51 |
| LOW CR. KEYMODE | 4149 | 2.03  |       | 1491 |       | 720 | 220 | 1.65 |
| HI. CR. KEYMODE | 3499 | 0.84  |       | 2751 |       | 638 | 160 | 0.67 |
| 2500 RPM        |      |       |       |      |       |     | 120 | 1.75 |

DRIVEABILITY DEMERITS 7

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 211

1970 PLYM FURY 318 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 063652 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 9.60 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0614

10/11/73 BAR:24.41 DB:74 WB:52  
REL.HUM:22.7% NOX COR: .840

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.68 | 82.3 | 651.6 | 4.23 | 11.15 |     |     |      |
| COLD STABILIZED | 3.59 | 42.3 | 633.6 | 3.06 | 12.52 |     |     |      |
| HOT TRANSIENT   | 3.40 | 59.1 | 532.2 | 3.69 | 14.01 |     |     |      |
| 1975 COMPOSITE  | 3.97 | 55.3 | 609.2 | 3.48 | 12.57 |     |     |      |
| IDLE KEYMODE    | 3008 | 1.25 |       | 195  |       | 365 | 160 | 0.85 |
| LOW CR. KEYMODE | 3514 | 2.78 |       | 1262 |       | 442 | 190 | 1.90 |
| HI. CR. KEYMODE | 3259 | 2.78 |       | 1579 |       | 411 | 160 | 2.00 |
| 2500 RPM        |      |      |       |      |       |     | 160 | 4.00 |

DRIVEABILITY DEMERITS 40

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0627

10/12/73 BAR:24.52 DB:70 WB:49  
REL.HUM:21.5% NOX COR: .820

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.05 | 162.0 | 617.6 | 2.56 | 9.96  |     |     |      |
| COLD STABILIZED | 4.42 | 94.0  | 587.7 | 2.34 | 11.89 |     |     |      |
| HOT TRANSIENT   | 4.27 | 105.4 | 513.1 | 2.71 | 12.86 |     |     |      |
| 1975 COMPOSITE  | 4.93 | 111.4 | 573.3 | 2.49 | 11.66 |     |     |      |
| IDLE KEYMODE    | 3338 | 3.51  |       | 144  |       | 324 | 225 | 3.60 |
| LOW CR. KEYMODE | 3708 | 5.02  |       | 648  |       | 418 | 270 | 5.00 |
| HI. CR. KEYMODE | 3315 | 3.78  |       | 1224 |       | 371 | 190 | 3.80 |
| 2500 RPM        |      |       |       |      |       |     | 170 | 3.60 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 217

1972 CADI COUP 472 5000LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 017251 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 7.20 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0616

10/11/73 BAR:24.48 DB:71 WB:52  
REL.HUM:28.6% NOX COR: .856

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.34 | 151.2 | 875.4 | 4.63 | 7.84  |     |     |      |
| COLD STABILIZED | 3.49 | 104.2 | 744.6 | 2.05 | 9.69  |     |     |      |
| HOT TRANSIENT   | 4.91 | 97.1  | 620.9 | 3.92 | 11.29 |     |     |      |
| 1975 COMPOSITE  | 4.69 | 112.1 | 737.7 | 3.11 | 9.59  |     |     |      |
| IDLE KEYMODE    | 3219 | 3.49  |       | 41   |       | 302 | 130 | 2.00 |
| LOW CR. KEYMODE | 1606 | 2.48  |       | 224  |       | 237 | 75  | 1.40 |
| HI. CR. KEYMODE | 2188 | 2.26  |       | 1994 |       | 316 | 100 | 1.30 |
| 2500 RPM        |      |       |       |      |       |     | 75  | 0.48 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0628

10/12/73 BAR:24.53 DB:72 WB:49  
REL.HUM:17.8% NOX COR: .810

|                 | HC   | CO    | CO2    | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|--------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.54 | 140.2 | 1015.9 | 3.20 | 7.07  |     |     |      |
| COLD STABILIZED | 2.14 | 79.5  | 857.9  | 1.49 | 9.00  |     |     |      |
| HOT TRANSIENT   | 3.12 | 85.2  | 662.3  | 2.33 | 11.05 |     |     |      |
| 1975 COMPOSITE  | 3.54 | 93.8  | 836.7  | 2.08 | 8.95  |     |     |      |
| IDLE KEYMODE    | 2916 | 3.69  |        | 46   |       | 284 | 150 | 3.20 |
| LOW CR. KEYMODE | 737  | 1.76  |        | 277  |       | 193 | 49  | 1.50 |
| HI. CR. KEYMODE | 640  | 1.06  |        | 1301 |       | 211 | 40  | 3.40 |
| 2500 RPM        |      |       |        |      |       |     | 45  | 0.50 |

DRIVEABILITY DEMERITS 9

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 218

1973 CHEV NOVA 307 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 016372 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 9.60 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0626

10/12/73 BAR: 24.53 DB: 70 WB: 48  
REL. HUM: 18.6% NOX COR: .808

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.70 | 184.6 | 483.8 | 1.30 | 10.98 |     |     |      |
| COLD STABILIZED | 4.94  | 102.1 | 542.4 | 1.15 | 12.40 |     |     |      |
| HOT TRANSIENT   | 5.90  | 113.9 | 437.8 | 1.73 | 12.99 |     |     |      |
| 1975 COMPOSITE  | 6.62  | 122.6 | 515.0 | 1.34 | 12.23 |     |     |      |
| IDLE KEYMODE    | 4526  | 6.60  |       | 40   |       | 527 | 300 | 6.00 |
| LOW CR. KEYMODE | 4924  | 4.18  |       | 686  |       | 792 | 415 | 3.60 |
| HI. CR. KEYMODE | 4911  | 6.36  |       | 536  |       | 722 | 380 | 5.70 |
| 2500 RPM        |       |       |       |      |       |     | 130 | 0.70 |

DRIVEABILITY DEMERITS 12

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0643

10/15/73 BAR: 24.95 DB: 82 WB: 58  
REL. HUM: 24.0% NOX COR: .882

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.46 | 168.6 | 465.4 | 0.98 | 11.67 |     |     |      |
| COLD STABILIZED | 4.86  | 104.3 | 526.3 | 0.87 | 12.62 |     |     |      |
| HOT TRANSIENT   | 5.61  | 115.4 | 431.5 | 0.95 | 14.12 |     |     |      |
| 1975 COMPOSITE  | 6.24  | 120.8 | 487.3 | 0.91 | 12.78 |     |     |      |
| IDLE KEYMODE    | 4892  | 7.24  |       | 35   |       | 522 | 480 | 6.00 |
| LOW CR. KEYMODE | 5462  | 5.57  |       | 322  |       | 812 | 730 | 4.60 |
| HI. CR. KEYMODE | 4946  | 6.12  |       | 506  |       | 696 | 570 | 5.15 |
| 2500 RPM        |       |       |       |      |       |     | 140 | 0.70 |

DRIVEABILITY DEMERITS 12

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 220

1968 BUIC LESA 350 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 074568 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 6.00 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0645

10/15/73 BAR:24.94 DB:78 WB:58  
REL.HUM:31.2% NOX COR: .907

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.67 | 211.6 | 463.1 | 1.85 | 10.74 |     |     |      |
| COLD STABILIZED | 6.05  | 127.8 | 509.0 | 1.65 | 12.22 |     |     |      |
| HOT TRANSIENT   | 4.66  | 66.0  | 462.8 | 4.10 | 15.32 |     |     |      |
| 1975 COMPOSITE  | 6.63  | 128.2 | 486.6 | 2.37 | 12.56 |     |     |      |
| IDLE KEYMODE    | 2746  | 0.43  |       | 192  |       | 328 | 370 | 0.45 |
| LOW CR. KEYMODE | 4224  | 4.90  |       | 749  |       | 599 | 690 | 4.95 |
| HI. CR. KEYMODE | 3647  | 1.99  |       | 2873 |       | 512 | 460 | 2.00 |
| 2500 RPM        |       |       |       |      |       |     | 450 | 4.85 |

DRIVEABILITY DEMERITS 21

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0659

10/16/73 BAR:24.86 DB:75 WB:56  
REL.HUM:31.7% NOX COR: .891

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.38 | 183.3 | 499.4 | 1.93 | 10.86 |     |     |      |
| COLD STABILIZED | 4.84  | 138.7 | 586.4 | 1.27 | 10.86 |     |     |      |
| HOT TRANSIENT   | 4.76  | 100.3 | 442.8 | 2.38 | 14.47 |     |     |      |
| 1975 COMPOSITE  | 5.98  | 137.4 | 528.4 | 1.71 | 11.67 |     |     |      |
| IDLE KEYMODE    | 2217  | 0.19  |       | 85   |       | 311 | 240 | 0.16 |
| LOW CR. KEYMODE | 4235  | 7.30  |       | 255  |       | 582 | 620 | 7.00 |
| HI. CR. KEYMODE | 3410  | 3.03  |       | 1624 |       | 489 | 380 | 3.10 |
| 2500 RPM        |       |       |       |      |       |     | 460 | 2.10 |

DRIVEABILITY DEMERITS 12

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 224

1968 CHEV MALI 250 3500LBS HIGH ALTITUDE RETROFIT  
6CYL 1BBL AUTOMATIC 043307 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 3.60 PARTS COST: 0.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0672

10/17/73 BAR: 24.92 DB: 86 WB: 56  
REL. HUM: 14.0% NOX COR: .828

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.81 | 153.8 | 391.9 | 2.95 | 13.27 |     |     |      |
| COLD STABILIZED | 3.93  | 60.3  | 418.6 | 2.26 | 16.94 |     |     |      |
| HOT TRANSIENT   | 4.47  | 53.8  | 374.1 | 3.67 | 18.84 |     |     |      |
| 1975 COMPOSITE  | 5.73  | 78.1  | 400.7 | 2.79 | 16.45 |     |     |      |
| IDLE KEYMODE    | 5729  | 4.13  |       | 96   |       | 835 | 700 | 4.10 |
| LOW CR. KEYMODE | 4063  | 0.50  |       | 2374 |       | 566 | 310 | 0.55 |
| HI. CR. KEYMODE | 4286  | 5.03  |       | 985  |       | 553 | 280 | 5.00 |
| 2500 RPM        |       |       |       |      |       |     | 400 | 3.60 |

DRIVEABILITY DEMERITS 12

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0678

10/18/73 BAR: 24.89 DB: 70 WB: 52  
REL. HUM: 30.4% NOX COR: .858

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.22 | 120.1 | 458.2 | 3.00 | 13.30 |     |     |      |
| COLD STABILIZED | 3.59 | 66.1  | 463.1 | 1.85 | 15.40 |     |     |      |
| HOT TRANSIENT   | 3.64 | 46.3  | 393.6 | 3.26 | 18.64 |     |     |      |
| 1975 COMPOSITE  | 4.36 | 71.9  | 442.8 | 2.48 | 15.64 |     |     |      |
| IDLE KEYMODE    | 3657 | 5.54  |       | 74   |       | 359 | 190 | 4.80 |
| LOW CR. KEYMODE | 2822 | 0.38  |       | 1910 |       | 390 | 155 | 0.32 |
| HI. CR. KEYMODE | 3693 | 3.61  |       | 1414 |       | 474 | 215 | 0.90 |
| 2500 RPM        |      |       |       |      |       |     | 230 | 2.40 |

DRIVEABILITY DEMERITS 20

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 225

1968 CHEV STAW 396 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 048577 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0656

10/16/73 BAR:24.86 DB:75 WB:56  
REL.HUM:31.7% NOX COR: .891

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 18.33 | 337.2 | 550.2 | 1.16 | 7.82  |     |     |      |
| COLD STABILIZED | 11.56 | 270.6 | 512.5 | 0.71 | 9.14  |     |     |      |
| HOT TRANSIENT   | 7.69  | 187.8 | 391.4 | 0.89 | 12.53 |     |     |      |
| 1975 COMPOSITE  | 11.90 | 261.6 | 486.8 | 0.85 | 9.52  |     |     |      |
| IDLE KEYMODE    | 4832  | 6.24  |       | 69   |       | 657 | 680 | 5.80 |
| LOW CR. KEYMODE | 5718  | 8.36  |       | 232  |       | 826 | 960 | 7.90 |
| HI. CR. KEYMODE | 5089  | 7.72  |       | 479  |       | 731 | 740 | 7.20 |
| 2500 RPM        |       |       |       |      |       |     | 650 | 8.60 |

DRIVEABILITY DEMERITS 12

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0665

10/17/73 BAR:24.91 DB:69 WB:50  
REL.HUM:26.3% NOX COR: .835

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.95 | 212.1 | 532.6 | 1.42 | 9.96  |     |     |      |
| COLD STABILIZED | 5.53 | 143.9 | 550.1 | 0.88 | 11.22 |     |     |      |
| HOT TRANSIENT   | 4.92 | 139.3 | 441.5 | 1.20 | 13.18 |     |     |      |
| 1975 COMPOSITE  | 6.08 | 156.9 | 516.3 | 1.08 | 11.39 |     |     |      |
| IDLE KEYMODE    | 3519 | 3.61  |       | 72   |       | 344 | 345 | 3.60 |
| LOW CR. KEYMODE | 4280 | 7.07  |       | 229  |       | 546 | 610 | 7.20 |
| HI. CR. KEYMODE | 4000 | 6.37  |       | 466  |       | 508 | 480 | 6.40 |
| 2500 RPM        |      |       |       |      |       |     | 480 | 8.50 |

DRIVEABILITY DEMERITS 30

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 226

1973 DODG DART 318 3000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 003813 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 9.60 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0670

10/17/73 BAR:24.92 DB:80 WB:54  
REL.HUM:17.5% NOX COR: .831

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.63 | 24.6 | 523.9 | 4.47 | 15.52 |     |     |      |
| COLD STABILIZED | 3.78 | 36.9 | 564.6 | 4.61 | 14.04 |     |     |      |
| HOT TRANSIENT   | 2.83 | 23.6 | 486.2 | 3.96 | 16.73 |     |     |      |
| 1975 COMPOSITE  | 3.48 | 30.6 | 534.3 | 4.40 | 15.01 |     |     |      |
| IDLE KEYMODE    | 4612 | 4.92 |       | 487  |       | 702 | 350 | 4.70 |
| LOW CR. KEYMODE | 3444 | 0.76 |       | 3290 |       | 564 | 215 | 0.85 |
| HI. CR. KEYMODE | 2956 | 0.58 |       | 2360 |       | 503 | 150 | 0.60 |
| 2500 RPM        |      |      |       |      |       |     | 75  | 0.95 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0657

10/16/73 BAR:24.86 DB:75 WB:56  
REL.HUM:31.7% NOX COR: .891

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.19 | 84.1 | 488.5 | 3.62 | 13.98 |     |     |      |
| COLD STABILIZED | 3.90 | 78.9 | 490.2 | 1.76 | 14.22 |     |     |      |
| HOT TRANSIENT   | 3.63 | 62.4 | 448.9 | 4.19 | 15.95 |     |     |      |
| 1975 COMPOSITE  | 4.10 | 75.4 | 478.4 | 2.82 | 14.61 |     |     |      |
| IDLE KEYMODE    | 4146 | 5.92 |       | 80   |       | 515 | 500 | 5.00 |
| LOW CR. KEYMODE | 3800 | 3.32 |       | 1598 |       | 587 | 480 | 3.00 |
| HI. CR. KEYMODE | 3522 | 3.35 |       | 1354 |       | 532 | 400 | 3.30 |
| 2500 RPM        |      |      |       |      |       |     | 280 | 2.30 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 227

1973 AMMO STAW 304 3000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 003437 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: AMER.MOT.

LABOR COST: 9.60 PARTS COST: 2.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0671

10/17/73 BAR:24.92 DB:80 WB:54  
REL.HUM:17.5% NOX COR: .831

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.44 | 49.7 | 525.5 | 2.74 | 14.42 |     |     |      |
| COLD STABILIZED | 2.85 | 30.8 | 539.1 | 1.56 | 14.93 |     |     |      |
| HOT TRANSIENT   | 3.37 | 30.1 | 464.7 | 2.36 | 17.04 |     |     |      |
| 1975 COMPOSITE  | 3.33 | 34.6 | 515.6 | 2.03 | 15.34 |     |     |      |
| IDLE KEYMODE    | 2535 | 0.46 |       | 186  |       | 444 | 150 | 0.45 |
| LOW CR. KEYMODE | 3093 | 0.53 |       | 1046 |       | 571 | 180 | 0.40 |
| HI. CR. KEYMODE | 2531 | 0.78 |       | 1405 |       | 512 | 140 | 0.70 |
| 2500 RPM        |      |      |       |      |       |     | 65  | 0.40 |

DRIVEABILITY DEMERITS 16

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0634

10/15/73 BAR:24.88 DB:69 WB:50  
REL.HUM:26.3% NOX COR: .835

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.36 | 124.1 | 582.2 | 2.32 | 11.17 |     |     |      |
| COLD STABILIZED | 3.29 | 43.3  | 575.6 | 1.65 | 13.62 |     |     |      |
| HOT TRANSIENT   | 3.52 | 36.3  | 473.5 | 2.24 | 16.44 |     |     |      |
| 1975 COMPOSITE  | 4.00 | 58.3  | 548.6 | 1.95 | 13.64 |     |     |      |
| IDLE KEYMODE    | 2377 | 0.81  |       | 190  |       | 903 | 265 | 0.65 |
| LOW CR. KEYMODE | 2887 | 0.49  |       | 867  |       | 384 | 345 | 0.40 |
| HI. CR. KEYMODE | 2618 | 0.59  |       | 1719 |       | 395 | 265 | 0.51 |
| 2500 RPM        |      |       |       |      |       |     | 75  | 0.26 |

DRIVEABILITY DEMERITS 20

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 231

1973 PLYM DUST 318 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 007751 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 7.20 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0702

10/19/73 BAR: 24.90 DB: 79 WB: 52  
REL. HUM: 14.2% NOX COR: .809

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.90 | 29.8 | 548.0 | 4.22 | 14.67 |     |     |      |
| COLD STABILIZED | 3.53 | 36.7 | 550.3 | 3.45 | 14.38 |     |     |      |
| HOT TRANSIENT   | 2.99 | 23.4 | 501.4 | 4.90 | 16.26 |     |     |      |
| 1975 COMPOSITE  | 3.46 | 31.6 | 536.3 | 4.01 | 14.92 |     |     |      |
| IDLE KEYMODE    | 3030 | 2.66 |       | 144  |       | 362 | 220 | 2.30 |
| LOW CR. KEYMODE | 3085 | 0.35 |       | 3865 |       | 434 | 220 | 0.35 |
| HI. CR. KEYMODE | 2753 | 0.52 |       | 2564 |       | 382 | 165 | 0.45 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 0.85 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0955

11/13/73 BAR: 24.51 DB: 74 WB: 52  
REL. HUM: 22.6% NOX COR: .839

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.46 | 103.7 | 516.4 | 2.68 | 12.73 |     |     |      |
| COLD STABILIZED | 3.78 | 63.6  | 542.8 | 2.02 | 13.60 |     |     |      |
| HOT TRANSIENT   | 3.91 | 85.3  | 451.1 | 2.31 | 14.91 |     |     |      |
| 1975 COMPOSITE  | 4.38 | 78.0  | 511.8 | 2.24 | 13.74 |     |     |      |
| IDLE KEYMODE    | 2783 | 2.38  |       | 137  |       | 283 | 225 | 2.15 |
| LOW CR. KEYMODE | 3540 | 3.05  |       | 1703 |       | 442 | 325 | 2.70 |
| HI. CR. KEYMODE | 3568 | 4.88  |       | 810  |       | 440 | 300 | 4.10 |
| 2500 RPM        |      |       |       |      |       |     | 165 | 2.50 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 232

1973 FORD MAVE 200 2500LBS HIGH ALTITUDE RETROFIT  
6CYL 1BBL 3 SPEED 003468 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 3.60 PARTS COST: 0.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0686

10/18/73 BAR:24.83 DB:81 WB:55  
REL.HUM:18.5% NOX COR: .841

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.46 | 81.4 | 307.5 | 0.97 | 19.67 |     |     |      |
| COLD STABILIZED | 5.07 | 83.2 | 388.8 | 0.90 | 16.63 |     |     |      |
| HOT TRANSIENT   | 4.25 | 66.2 | 301.1 | 1.16 | 21.28 |     |     |      |
| 1975 COMPOSITE  | 4.93 | 78.1 | 347.5 | 0.98 | 18.34 |     |     |      |
| IDLE KEYMODE    | 6639 | 7.23 |       | 27   |       | 780 | 480 | 6.30 |
| LOW CR. KEYMODE | 4017 | 2.15 |       | 1091 |       | 627 | 290 | 2.10 |
| HI. CR. KEYMODE | 3903 | 2.99 |       | 755  |       | 628 | 260 | 2.70 |
| 2500 RPM        |      |      |       |      |       |     | 125 | 0.90 |

DRIVEABILITY DEMERITS 6

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0647

10/16/73 BAR:24.92 DB:71 WB:50  
REL.HUM:22.1% NOX COR: .825

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.36 | 79.7 | 314.6 | 1.11 | 19.23 |     |     |      |
| COLD STABILIZED | 3.67 | 74.7 | 330.5 | 0.50 | 19.38 |     |     |      |
| HOT TRANSIENT   | 3.68 | 54.9 | 289.0 | 1.09 | 23.02 |     |     |      |
| 1975 COMPOSITE  | 4.45 | 70.3 | 315.7 | 0.79 | 20.24 |     |     |      |
| IDLE KEYMODE    | 3438 | 3.05 |       | 58   |       | 381 | 360 | 3.00 |
| LOW CR. KEYMODE | 4074 | 2.05 |       | 1206 |       | 584 | 590 | 2.20 |
| HI. CR. KEYMODE | 4019 | 2.99 |       | 884  |       | 580 | 555 | 2.90 |
| 2500 RPM        |      |      |       |      |       |     | 360 | 2.20 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 233

1972 BUIC LESA 350 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 020861 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST:12.00 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0683

10/18/73 BAR:24.87 DB:82 WB:56  
REL.HUM:19.3% NOX COR: .850

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.87 | 96.2 | 591.0 | 6.45 | 11.66 |     |     |      |
| COLD STABILIZED | 5.10 | 49.6 | 594.8 | 5.15 | 12.93 |     |     |      |
| HOT TRANSIENT   | 5.01 | 52.4 | 540.8 | 7.39 | 13.94 |     |     |      |
| 1975 COMPOSITE  | 5.45 | 60.1 | 579.0 | 6.05 | 12.90 |     |     |      |
| IDLE KEYMODE    | 3712 | 0.86 |       | 236  |       | 538 | 300 | 0.70 |
| LOW CR. KEYMODE | 3946 | 2.09 |       | 2700 |       | 605 | 290 | 1.75 |
| HI. CR. KEYMODE | 3413 | 1.59 |       | 3670 |       | 530 | 200 | 1.35 |
| 2500 RPM        |      |      |       |      |       |     | 210 | 2.10 |

DRIVEABILITY DEMERITS 7

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0705

10/19/73 BAR:24.90 DB:73 WB:52  
REL.HUM:24.1% NOX COR: .841

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.68 | 65.6 | 617.4 | 7.05 | 12.06 |     |     |      |
| COLD STABILIZED | 4.50 | 33.1 | 607.0 | 5.16 | 13.23 |     |     |      |
| HOT TRANSIENT   | 4.00 | 27.8 | 537.4 | 7.29 | 15.00 |     |     |      |
| 1975 COMPOSITE  | 4.61 | 38.4 | 589.9 | 6.15 | 13.40 |     |     |      |
| IDLE KEYMODE    | 3630 | 0.78 |       | 191  |       | 441 | 320 | 0.70 |
| LOW CR. KEYMODE | 3511 | 0.63 |       | 3396 |       | 443 | 260 | 0.55 |
| HI. CR. KEYMODE | 3084 | 0.73 |       | 3995 |       | 387 | 185 | 0.55 |
| 2500 RPM        |      |      |       |      |       |     | 100 | 0.95 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 234

1968 MERC COUG 302 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 074758 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 8.40 PARTS COST: 1.85

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0704

10/19/73 BAR:24.90 DB:72 WB:52  
REL.HUM:26.1% NOX COR: .846

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.83 | 98.0 | 480.5 | 2.90 | 13.64 |     |     |      |
| COLD STABILIZED | 3.97 | 69.0 | 500.3 | 2.33 | 14.33 |     |     |      |
| HOT TRANSIENT   | 3.57 | 51.7 | 423.8 | 3.33 | 17.25 |     |     |      |
| 1975 COMPOSITE  | 4.25 | 70.3 | 474.9 | 2.73 | 14.87 |     |     |      |
| IDLE KEYMODE    | 4741 | 7.14 |       | 76   |       | 515 | 225 | 5.80 |
| LOW CR. KEYMODE | 3907 | 1.51 |       | 1665 |       | 509 | 240 | 1.35 |
| HI. CR. KEYMODE | 3306 | 0.90 |       | 2677 |       | 424 | 160 | 0.80 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 1.60 |

DRIVEABILITY DEMERITS 12

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0717

10/22/73 BAR:24.83 DB:80 WB:51  
REL.HUM:10.7% NOX COR: .793

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.21 | 92.1 | 466.0 | 2.60 | 14.20 |     |     |      |
| COLD STABILIZED | 3.64 | 70.2 | 491.4 | 2.14 | 14.52 |     |     |      |
| HOT TRANSIENT   | 3.30 | 48.8 | 393.8 | 2.63 | 18.52 |     |     |      |
| 1975 COMPOSITE  | 3.87 | 68.8 | 459.0 | 2.37 | 15.37 |     |     |      |
| IDLE KEYMODE    | 3785 | 6.80 |       | 72   |       | 405 | 340 | 5.00 |
| LOW CR. KEYMODE | 3248 | 1.23 |       | 1867 |       | 426 | 220 | 1.10 |
| HI. CR. KEYMODE | 2908 | 1.04 |       | 2542 |       | 377 | 190 | 0.90 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 1.80 |

DRIVEABILITY DEMERITS 17

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 237

1968 CADI FLEE 472 5000LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 065733 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 9.60 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0713

10/22/73 BAR:24.83 DB:70 WB:50  
REL.HUM:24.3% NOX COR: .831

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.53 | 66.2 | 655.9 | 5.35 | 11.36 |     |     |      |
| COLD STABILIZED | 5.24 | 58.2 | 727.9 | 5.55 | 10.65 |     |     |      |
| HOT TRANSIENT   | 4.75 | 43.9 | 635.4 | 6.30 | 12.38 |     |     |      |
| 1975 COMPOSITE  | 5.58 | 55.9 | 687.2 | 5.71 | 11.24 |     |     |      |
| IDLE KEYMODE    | 1424 | 0.39 |       | 136  |       | 300 | 100 | 0.31 |
| LOW CR. KEYMODE | 3630 | 2.13 |       | 1633 |       | 482 | 250 | 1.60 |
| HI. CR. KEYMODE | 3405 | 1.52 |       | 2873 |       | 447 | 215 | 1.20 |
| 2500 RPM        |      |      |       |      |       |     | 35  | 0.50 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0735

10/23/73 BAR:24.50 DB:77 WB:54  
REL.HUM:22.7% NOX COR: .852

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.57 | 211.1 | 490.6 | 1.52 | 10.60 |     |     |      |
| COLD STABILIZED | 2.70 | 104.6 | 717.0 | 1.71 | 10.01 |     |     |      |
| HOT TRANSIENT   | 2.86 | 98.7  | 564.7 | 1.53 | 12.22 |     |     |      |
| 1975 COMPOSITE  | 3.34 | 125.2 | 627.4 | 1.62 | 10.67 |     |     |      |
| IDLE KEYMODE    | 5439 | 0.77  |       | 241  |       | 473 | 270 | 0.20 |
| LOW CR. KEYMODE | 3302 | 2.24  |       | 152  |       | 418 | 90  | 0.30 |
| HI. CR. KEYMODE | 3913 | 5.41  |       | 0    |       | 457 | 90  | 0.50 |
| 2500 RPM        |      |       |       |      |       |     | 260 | 0.10 |

DRIVEABILITY DEMERITS 22

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 238

1969 DODG CORO 318 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 051016 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 9.60 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0721

10/22/73 BAR:24.80 DB:74 WB:52  
REL.HUM:22.3% NOX COR: .836

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 8.50 | 73.6 | 531.6 | 7.04 | 13.21 |      |     |      |
| COLD STABILIZED | 7.50 | 36.4 | 602.8 | 6.92 | 13.02 |      |     |      |
| HOT TRANSIENT   | 6.40 | 31.1 | 504.0 | 8.43 | 15.54 |      |     |      |
| 1975 COMPOSITE  | 7.40 | 42.7 | 560.5 | 7.37 | 13.68 |      |     |      |
| IDLE KEYMODE    | 6137 | 3.15 |       | 131  |       | 1055 | 700 | 3.00 |
| LOW CR. KEYMODE | 4843 | 0.49 |       | 3755 |       | 734  | 420 | 0.50 |
| HI. CR. KEYMODE | 3996 | 0.57 |       | 3560 |       | 536  | 360 | 0.60 |
| 2500 RPM        |      |      |       |      |       |      | 280 | 1.50 |

DRIVEABILITY DEMERITS 8

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0736

10/23/73 BAR:24.40 DB:76 WB:47  
REL.HUM: 6.9% NOX COR: .769

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 15.18 | 253.4 | 343.1 | 0.50 | 11.28 |      |     |      |
| COLD STABILIZED | 10.13 | 192.5 | 376.0 | 0.58 | 12.53 |      |     |      |
| HOT TRANSIENT   | 8.85  | 192.2 | 340.5 | 0.59 | 13.28 |      |     |      |
| 1975 COMPOSITE  | 10.83 | 205.2 | 359.3 | 0.57 | 12.44 |      |     |      |
| IDLE KEYMODE    | 7882  | 5.23  |       | 0    |       | 1132 | 120 | 0.40 |
| LOW CR. KEYMODE | 8384  | 11.46 |       | 0    |       | 1296 | 110 | 0.90 |
| HI. CR. KEYMODE | 7126  | 10.54 |       | 0    |       | 1051 | 90  | 0.85 |
| 2500 RPM        |       |       |       |      |       |      | 90  | 0.40 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 242

1970 FORD MUST 302 3500LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 016785 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 8.40 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0778

10/26/73 BAR:24.70 DB:70 WB:50  
REL.HUM:24.4% NOX COR: .832

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.20 | 66.2 | 502.7 | 5.09 | 14.29 |     |     |      |
| COLD STABILIZED | 4.21 | 55.2 | 501.0 | 2.42 | 14.82 |     |     |      |
| HOT TRANSIENT   | 3.69 | 40.3 | 440.0 | 4.77 | 17.29 |     |     |      |
| 1975 COMPOSITE  | 4.27 | 53.4 | 484.4 | 3.63 | 15.31 |     |     |      |
| IDLE KEYMODE    | 2999 | 1.49 |       | 199  |       | 415 | 320 | 1.20 |
| LOW CR. KEYMODE | 3538 | 1.12 |       | 2960 |       | 518 | 360 | 1.00 |
| HI. CR. KEYMODE | 3394 | 1.54 |       | 3435 |       | 475 | 300 | 1.50 |
| 2500 RPM        |      |      |       |      |       |     | 220 | 1.90 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0757

10/25/73 BAR:24.65 DB:77 WB:50  
REL.HUM:12.5% NOX COR: .797

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.07 | 93.5 | 538.6 | 3.60 | 12.69 |     |     |      |
| COLD STABILIZED | 3.82 | 80.5 | 548.7 | 1.56 | 12.96 |     |     |      |
| HOT TRANSIENT   | 6.88 | 48.4 | 454.7 | 3.78 | 16.12 |     |     |      |
| 1975 COMPOSITE  | 4.93 | 74.3 | 520.5 | 2.60 | 13.64 |     |     |      |
| IDLE KEYMODE    | 2546 | 2.71 |       | 85   |       | 295 | 150 | 2.20 |
| LOW CR. KEYMODE | 3272 | 2.27 |       | 1684 |       | 536 | 310 | 1.50 |
| HI. CR. KEYMODE | 3175 | 1.54 |       | 2666 |       | 488 | 260 | 1.40 |
| 2500 RPM        |      |      |       |      |       |     | 85  | 1.90 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 243

1969 PONT CATA 400 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 057823 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0731

10/23/73 BAR: 24.60 DB: 82 WB: 52  
REL. HUM: 10.7% NOX COR: .797

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.64 | 91.0 | 506.2 | 5.79 | 13.29 |     |     |      |
| COLD STABILIZED | 4.86 | 51.0 | 544.0 | 5.14 | 13.93 |     |     |      |
| HOT TRANSIENT   | 4.38 | 38.7 | 443.8 | 5.77 | 17.18 |     |     |      |
| 1975 COMPOSITE  | 5.10 | 56.0 | 508.3 | 5.45 | 14.55 |     |     |      |
| IDLE KEYMODE    | 3843 | 1.67 |       | 146  |       | 552 | 380 | 1.70 |
| LOW CR. KEYMODE | 3823 | 1.70 |       | 2876 |       | 615 | 320 | 2.00 |
| HI. CR. KEYMODE | 3344 | 0.72 |       | 4738 |       | 535 | 220 | 0.80 |
| 2500 RPM        |      |      |       |      |       |     | 180 | 2.20 |

DRIVEABILITY DEMERITS 14

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0751

10/24/73 BAR: 24.50 DB: 67 WB: 49  
REL. HUM: 28.0% NOX COR: .836

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.33 | 104.7 | 570.3 | 3.63 | 11.80 |     |     |      |
| COLD STABILIZED | 3.85 | 37.4  | 595.4 | 3.21 | 13.36 |     |     |      |
| HOT TRANSIENT   | 3.62 | 37.3  | 441.0 | 3.64 | 17.43 |     |     |      |
| 1975 COMPOSITE  | 4.30 | 51.5  | 547.3 | 3.42 | 13.88 |     |     |      |
| IDLE KEYMODE    | 4675 | 1.54  |       | 306  |       | 648 | 460 | 1.40 |
| LOW CR. KEYMODE | 3408 | 1.91  |       | 1630 |       | 447 | 280 | 1.70 |
| HI. CR. KEYMODE | 2928 | 1.03  |       | 2583 |       | 394 | 190 | 1.00 |
| 2500 RPM        |      |       |       |      |       |     | 240 | 2.80 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 245

1968 FORD FAIR 289 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL 3 SPEED 077348 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 7.20 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0732

10/23/73 BAR:24.54 DB:86 WB:54  
REL.HUM:10.3% NOX COR: .804

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.48 | 80.4 | 423.4 | 1.64 | 15.62 |     |     |      |
| COLD STABILIZED | 5.14 | 58.0 | 449.7 | 1.26 | 15.99 |     |     |      |
| HOT TRANSIENT   | 4.68 | 45.0 | 373.3 | 1.94 | 19.41 |     |     |      |
| 1975 COMPOSITE  | 5.29 | 59.1 | 423.0 | 1.53 | 16.73 |     |     |      |
| IDLE KEYMODE    | 6844 | 5.61 |       | 33   |       | 627 | 380 | 4.20 |
| LOW CR. KEYMODE | 3137 | 1.34 |       | 1297 |       | 513 | 280 | 0.90 |
| HI. CR. KEYMODE | 3559 | 2.14 |       | 1803 |       | 537 | 260 | 1.80 |
| 2500 RPM        |      |      |       |      |       |     | 140 | 0.40 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0750

10/24/73 BAR:24.40 DB:77 WB:50  
REL.HUM:12.7% NOX COR: .799

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 13.04 | 172.3 | 426.3 | 0.76 | 12.06 |     |     |      |
| COLD STABILIZED | 7.43  | 102.6 | 485.0 | 0.78 | 13.30 |     |     |      |
| HOT TRANSIENT   | 6.75  | 85.9  | 402.8 | 1.18 | 15.93 |     |     |      |
| 1975 COMPOSITE  | 8.41  | 112.6 | 449.9 | 0.89 | 13.63 |     |     |      |
| IDLE KEYMODE    | 9354  | 10.14 |       | 39   |       | 756 | 520 | 7.40 |
| LOW CR. KEYMODE | 3747  | 2.75  |       | 466  |       | 464 | 240 | 2.20 |
| HI. CR. KEYMODE | 3594  | 4.01  |       | 604  |       | 453 | 240 | 3.20 |
| 2500 RPM        |       |       |       |      |       |     | 140 | 0.40 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 246

1968 OLDS DELT 455 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 114750 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 6.00 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0805

10/30/73 BAR:24.57 DB:70 WB:51  
REL.HUM:27.6% NOX COR: .846

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.10 | 54.4 | 680.6 | 7.03 | 11.34 |     |     |      |
| COLD STABILIZED | 4.95 | 28.0 | 632.9 | 5.08 | 12.86 |     |     |      |
| HOT TRANSIENT   | 4.68 | 38.8 | 557.3 | 6.79 | 14.07 |     |     |      |
| 1975 COMPOSITE  | 5.12 | 36.5 | 621.9 | 5.96 | 12.81 |     |     |      |
| IDLE KEYMODE    | 2814 | 0.45 |       | 139  |       | 373 | 200 | 0.30 |
| LOW CR. KEYMODE | 3481 | 1.75 |       | 2248 |       | 447 | 270 | 1.50 |
| HI. CR. KEYMODE | 3479 | 2.53 |       | 2592 |       | 427 | 225 | 2.10 |
| 2500 RPM        |      |      |       |      |       |     | 260 | 2.50 |

DRIVEABILITY DEMERITS 5

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0777

10/26/73 BAR:24.77 DB:70 WB:50  
REL.HUM:24.3% NOX COR: .831

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.74 | 45.3 | 661.2 | 3.60 | 11.97 |     |     |      |
| COLD STABILIZED | 3.52 | 28.4 | 679.6 | 2.19 | 12.11 |     |     |      |
| HOT TRANSIENT   | 3.74 | 37.5 | 560.1 | 2.78 | 14.12 |     |     |      |
| 1975 COMPOSITE  | 3.63 | 34.5 | 642.6 | 2.65 | 12.58 |     |     |      |
| IDLE KEYMODE    | 2956 | 0.27 |       | 138  |       | 416 | 260 | 0.30 |
| LOW CR. KEYMODE | 2796 | 2.31 |       | 841  |       | 320 | 110 | 2.00 |
| HI. CR. KEYMODE | 2693 | 1.53 |       | 1925 |       | 297 | 140 | 0.50 |
| 2500 RPM        |      |      |       |      |       |     | 200 | 4.20 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 247

1968 FORD GALA 390 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 046034 MILES HAS: EMC, NO·EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 9.60 PARTS COST: 1.85

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0733

10/23/73 BAR:24.54 DB:81 WB:54  
REL.HUM:16.4% NOX COR: .829

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.69 | 67.4 | 589.2 | 5.96 | 12.38 |     |     |      |
| COLD STABILIZED | 5.71 | 90.3 | 531.8 | 4.65 | 12.88 |     |     |      |
| HOT TRANSIENT   | 4.92 | 47.2 | 471.7 | 6.12 | 15.86 |     |     |      |
| 1975 COMPOSITE  | 5.90 | 73.5 | 527.1 | 5.34 | 13.47 |     |     |      |
| IDLE KEYMODE    | 5333 | 7.97 |       | 65   |       | 648 | 420 | 6.40 |
| LOW CR. KEYMODE | 3630 | 0.59 |       | 2964 |       | 570 | 280 | 0.50 |
| HI. CR. KEYMODE | 3239 | 0.50 |       | 3913 |       | 497 | 200 | 0.20 |
| 2500 RPM        |      |      |       |      |       |     | 240 | 0.40 |

DRIVEABILITY DEMERITS 8

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0768

10/26/73 BAR:24.75 DB:70 WB:49  
REL.HUM:21.3% NOX COR: .818

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.66 | 68.8 | 814.4 | 7.04 | 9.47  |     |     |      |
| COLD STABILIZED | 3.80 | 8.4  | 658.3 | 5.84 | 13.03 |     |     |      |
| HOT TRANSIENT   | 3.75 | 22.8 | 695.3 | 7.65 | 11.98 |     |     |      |
| 1975 COMPOSITE  | 4.17 | 25.1 | 701.3 | 6.59 | 11.81 |     |     |      |
| IDLE KEYMODE    | 2448 | 0.11 |       | 88   |       | 368 | 175 | 0.09 |
| LOW CR. KEYMODE | 3147 | 0.42 |       | 2927 |       | 428 | 210 | 0.25 |
| HI. CR. KEYMODE | 2346 | 0.21 |       | 3192 |       | 318 | 100 | 0.19 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 0.60 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 248

1969 PONT LEMA 350 4000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 027997 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0780

10/26/73 BAR:24.30 DB:70 WB:50  
REL.HUM:24.8% NOX COR: .835

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.31 | 131.8 | 520.3 | 4.73 | 11.87 |     |     |      |
| COLD STABILIZED | 4.85 | 79.2  | 554.3 | 4.46 | 12.93 |     |     |      |
| HOT TRANSIENT   | 4.11 | 53.1  | 464.1 | 5.67 | 15.89 |     |     |      |
| 1975 COMPOSITE  | 5.16 | 83.0  | 522.2 | 4.85 | 13.32 |     |     |      |
| IDLE KEYMODE    | 3816 | 4.12  |       | 115  |       | 507 | 370 | 3.20 |
| LOW CR. KEYMODE | 3998 | 2.10  |       | 2539 |       | 592 | 400 | 1.80 |
| HI. CR. KEYMODE | 3549 | 1.68  |       | 2979 |       | 494 | 300 | 1.60 |
| 2500 RPM        |      |       |       |      |       |     | 160 | 1.40 |

DRIVEABILITY DEMERITS 6

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0758

10/25/73 BAR:24.65 DB:77 WB:50  
REL.HUM:12.5% NOX COR: .797

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.96 | 153.6 | 524.4 | 4.12 | 11.26 |     |     |      |
| COLD STABILIZED | 5.37 | 75.6  | 571.9 | 4.66 | 12.58 |     |     |      |
| HOT TRANSIENT   | 4.64 | 67.7  | 460.1 | 5.19 | 15.32 |     |     |      |
| 1975 COMPOSITE  | 5.71 | 89.8  | 530.9 | 4.69 | 12.91 |     |     |      |
| IDLE KEYMODE    | 3511 | 3.72  |       | 85   |       | 337 | 200 | 2.90 |
| LOW CR. KEYMODE | 3680 | 1.98  |       | 2573 |       | 532 | 335 | 1.50 |
| HI. CR. KEYMODE | 3567 | 3.43  |       | 1631 |       | 494 | 290 | 2.90 |
| 2500 RPM        |      |       |       |      |       |     | 120 | 1.00 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 250

1970 CHEV CAM 350 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL 4 SPEED 047370 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 6.00 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0760

10/25/73 BAR:24.65 DB:70 WB:49  
REL.HUM:21.4% NOX COR: .819

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.60 | 90.0 | 513.0 | 4.17 | 13.13 |     |     |      |
| COLD STABILIZED | 5.09 | 57.5 | 560.2 | 2.16 | 13.36 |     |     |      |
| HOT TRANSIENT   | 4.81 | 43.9 | 432.0 | 3.87 | 17.25 |     |     |      |
| 1975 COMPOSITE  | 5.54 | 60.5 | 514.8 | 3.06 | 14.20 |     |     |      |
| IDLE KEYMODE    | 3563 | 4.09 |       | 60   |       | 348 | 200 | 3.80 |
| LOW CR. KEYMODE | 2471 | 2.30 |       | 823  |       | 320 | 125 | 2.00 |
| HI. CR. KEYMODE | 2986 | 2.53 |       | 2456 |       | 438 | 215 | 2.10 |
| 2500 RPM        |      |      |       |      |       |     | 75  | 1.10 |

DRIVEABILITY DEMERITS 1

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0783

10/26/73 BAR:24.30 DB:78 WB:52  
REL.HUM:16.2% NOX COR: .820

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.96 | 106.6 | 479.9 | 3.16 | 13.24 |     |     |      |
| COLD STABILIZED | 4.81 | 62.4  | 582.9 | 2.14 | 12.79 |     |     |      |
| HOT TRANSIENT   | 4.32 | 41.4  | 465.8 | 4.02 | 16.35 |     |     |      |
| 1975 COMPOSITE  | 5.33 | 65.8  | 528.9 | 2.87 | 13.72 |     |     |      |
| IDLE KEYMODE    | 3289 | 3.44  |       | 65   |       | 319 | 240 | 3.00 |
| LOW CR. KEYMODE | 3079 | 0.89  |       | 2220 |       | 418 | 280 | 0.30 |
| HI. CR. KEYMODE | 3087 | 2.39  |       | 2431 |       | 403 | 220 | 2.20 |
| 2500 RPM        |      |       |       |      |       |     | 100 | 0.40 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 251

1973 CHEV IMPA 350 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 006702 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 7.20 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0747

10/24/73 BAR: 24.65 DB: 72 WB: 52  
REL. HUM: 26.3% NOX COR: .849

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 2.08 | 37.3 | 296.6 | 1.56 | 24.62 |     |     |      |
| COLD STABILIZED | 1.85 | 35.4 | 284.6 | 1.16 | 25.73 |     |     |      |
| HOT TRANSIENT   | 1.72 | 25.9 | 248.3 | 1.36 | 30.25 |     |     |      |
| 1975 COMPOSITE  | 1.86 | 33.2 | 277.0 | 1.30 | 26.59 |     |     |      |
| IDLE KEYMODE    | 3572 | 4.48 |       | 60   |       | 413 | 260 | 3.00 |
| LOW CR. KEYMODE | 3852 | 2.88 |       | 596  |       | 545 | 250 | 2.00 |
| HI. CR. KEYMODE | 3371 | 2.13 |       | 1473 |       | 464 | 190 | 1.60 |
| 2500 RPM        |      |      |       |      |       |     | 500 | 0.50 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0761

10/25/73 BAR: 24.61 DB: 72 WB: 49  
REL. HUM: 17.7% NOX COR: .809

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 4.08 | 101.8 | 579.5 | 1.65 | 11.84 |     |      |      |
| COLD STABILIZED | 2.73 | 69.3  | 621.1 | 1.12 | 12.06 |     |      |      |
| HOT TRANSIENT   | 2.97 | 78.5  | 476.1 | 1.09 | 14.63 |     |      |      |
| 1975 COMPOSITE  | 3.08 | 78.6  | 572.2 | 1.22 | 12.63 |     |      |      |
| IDLE KEYMODE    | 2132 | 4.38  |       | 52   |       | 315 | 520  | 3.20 |
| LOW CR. KEYMODE | 3021 | 4.30  |       | 238  |       | 486 | 790  | 3.20 |
| HI. CR. KEYMODE | 4465 | 10.75 |       | 121  |       | 657 | 1180 | 2.00 |
| 2500 RPM        |      |       |       |      |       |     | 180  | 0.30 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 252

1973 OLDS OMEG 350 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL 3 SPEED 009599 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 7.20 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0759

10/25/73 BAR: 24.65 DB: 70 WB: 48  
REL. HUM: 18.4% NOX COR: .807

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.41 | 90.0 | 548.9 | 1.29 | 12.64 |     |     |      |
| COLD STABILIZED | 3.49 | 73.0 | 585.4 | 0.82 | 12.52 |     |     |      |
| HOT TRANSIENT   | 3.65 | 72.9 | 471.7 | 1.14 | 14.89 |     |     |      |
| 1975 COMPOSITE  | 3.73 | 76.5 | 546.3 | 1.00 | 13.13 |     |     |      |
| IDLE KEYMODE    | 1476 | 0.55 |       | 73   |       | 232 | 70  | 0.50 |
| LOW CR. KEYMODE | 1766 | 1.37 |       | 462  |       | 228 | 80  | 1.20 |
| HI. CR. KEYMODE | 1848 | 0.64 |       | 1460 |       | 266 | 100 | 0.52 |
| 2500 RPM        |      |      |       |      |       |     | 85  | 2.20 |

DRIVEABILITY DEMERITS 1

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0782

10/26/73 BAR: 24.42 DB: 71 WB: 50  
REL. HUM: 22.7% NOX COR: .829

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.12 | 69.1 | 600.5 | 1.59 | 12.33 |     |     |      |
| COLD STABILIZED | 2.93 | 58.4 | 632.4 | 1.07 | 12.14 |     |     |      |
| HOT TRANSIENT   | 3.00 | 52.6 | 501.8 | 1.38 | 14.99 |     |     |      |
| 1975 COMPOSITE  | 3.20 | 59.0 | 589.5 | 1.26 | 12.87 |     |     |      |
| IDLE KEYMODE    | 1669 | 0.55 |       | 75   |       | 227 | 90  | 0.20 |
| LOW CR. KEYMODE | 2405 | 2.10 |       | 443  |       | 293 | 160 | 0.50 |
| HI. CR. KEYMODE | 2015 | 0.56 |       | 1226 |       | 267 | 120 | 0.20 |
| 2500 RPM        |      |      |       |      |       |     | 80  | 0.40 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 254

1970 FORD MUST 302 3000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 036423 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 7.20 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0748

10/24/73 BAR:24.50 DB:70 WB:50  
REL.HUM:24.6% NOX COR: .833

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.91 | 72.2 | 568.5 | 4.54 | 12.65 |     |     |      |
| COLD STABILIZED | 4.18 | 49.4 | 552.6 | 2.07 | 13.84 |     |     |      |
| HOT TRANSIENT   | 4.17 | 39.0 | 449.1 | 3.51 | 17.01 |     |     |      |
| 1975 COMPOSITE  | 4.75 | 51.3 | 527.2 | 2.99 | 14.30 |     |     |      |
| IDLE KEYMODE    | 2983 | 1.48 |       | 176  |       | 338 | 240 | 2.00 |
| LOW CR. KEYMODE | 3575 | 1.20 |       | 957  |       | 465 | 300 | 1.00 |
| HI. CR. KEYMODE | 3915 | 1.37 |       | 2835 |       | 528 | 320 | 1.30 |
| 2500 RPM        |      |      |       |      |       |     | 210 | 2.10 |

DRIVEABILITY DEMERITS 24

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0766

10/25/73 BAR:24.60 DB:75 WB:54  
REL.HUM:26.2% NOX COR: .862

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.43 | 91.0 | 537.1 | 3.80 | 12.66 |     |     |      |
| COLD STABILIZED | 4.44 | 59.1 | 532.5 | 1.89 | 13.93 |     |     |      |
| HOT TRANSIENT   | 4.98 | 51.4 | 463.3 | 3.89 | 15.91 |     |     |      |
| 1975 COMPOSITE  | 5.21 | 63.7 | 514.3 | 2.84 | 14.12 |     |     |      |
| IDLE KEYMODE    | 3113 | 2.01 |       | 143  |       | 389 | 260 | 2.20 |
| LOW CR. KEYMODE | 3807 | 2.49 |       | 925  |       | 538 | 380 | 2.20 |
| HI. CR. KEYMODE | 3645 | 1.61 |       | 2456 |       | 506 | 320 | 1.40 |
| 2500 RPM        |      |      |       |      |       |     | 260 | 2.70 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 255

1972 CHEV NOVA 307 3000LBS COMBINATION RETROFIT  
8CYL 2BBL AUTOMATIC 032867 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0803

10/30/73 BAR:24.60 DB:70 WB:50  
REL.HUM:24.5% NOX COR: .833

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 5.69 | 52.5 | 540.7 | 5.18 | 13.89 |      |     |      |
| COLD STABILIZED | 4.96 | 14.5 | 487.0 | 2.78 | 16.95 |      |     |      |
| HOT TRANSIENT   | 4.45 | 22.6 | 433.3 | 4.92 | 18.44 |      |     |      |
| 1975 COMPOSITE  | 4.97 | 24.7 | 483.3 | 3.87 | 16.56 |      |     |      |
| IDLE KEYMODE    | 6397 | 0.18 |       | 35   |       | 1044 | 750 | 0.12 |
| LOW CR. KEYMODE | 3400 | 0.19 |       | 3441 |       | 497  | 295 | 0.20 |
| HI. CR. KEYMODE | 3158 | 0.49 |       | 3620 |       | 438  | 240 | 0.45 |
| 2500 RPM        |      |      |       |      |       |      | 90  | 0.60 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0791

10/29/73 BAR:24.55 DB:82 WB:52  
REL.HUM:10.7% NOX COR: .798

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 6.00 | 87.5 | 508.1 | 3.11 | 13.40 |      |     |      |
| COLD STABILIZED | 3.77 | 14.1 | 482.6 | 2.33 | 17.24 |      |     |      |
| HOT TRANSIENT   | 4.14 | 52.3 | 381.7 | 2.71 | 18.67 |      |     |      |
| 1975 COMPOSITE  | 4.34 | 40.0 | 460.0 | 2.60 | 16.60 |      |     |      |
| IDLE KEYMODE    | 6973 | 0.28 |       | 34   |       | 1148 | 240 | 0.20 |
| LOW CR. KEYMODE | 3570 | 0.95 |       | 2481 |       | 494  | 290 | 0.50 |
| HI. CR. KEYMODE | 3440 | 2.82 |       | 1699 |       | 442  | 260 | 2.20 |
| 2500 RPM        |      |      |       |      |       |      | 130 | 1.00 |

DRIVEABILITY DEMERITS 32

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 261

1969 FORD MUST 200 3000LBS HIGH ALTITUDE RETROFIT  
6CYL 1BBL 3 SPEED 068680 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 4.80 PARTS COST: 0.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0792

10/29/73 BAR:24.52 DB:75 WB:49  
REL.HUM:13.0% NOX COR: .795

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.91 | 97.6  | 334.0 | 2.79 | 17.38 |     |     |      |
| COLD STABILIZED | 8.73 | 145.5 | 315.0 | 1.14 | 15.59 |     |     |      |
| HOT TRANSIENT   | 6.93 | 95.1  | 290.2 | 2.32 | 19.30 |     |     |      |
| 1975 COMPOSITE  | 8.05 | 121.5 | 312.1 | 1.81 | 16.86 |     |     |      |
| IDLE KEYMODE    | 6755 | 9.78  |       | 57   |       | 641 | 460 | 8.10 |
| LOW CR. KEYMODE | 4565 | 2.60  |       | 1408 |       | 611 | 425 | 2.40 |
| HI. CR. KEYMODE | 4870 | 6.00  |       | 638  |       | 653 | 450 | 5.90 |
| 2500 RPM        |      |       |       |      |       |     | 330 | 5.00 |

DRIVEABILITY DEMERITS 6

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0807

10/30/73 BAR:24.56 DB:70 WB:50  
REL.HUM:24.5% NOX COR: .833

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.17 | 95.9  | 388.1 | 1.64 | 15.95 |     |     |      |
| COLD STABILIZED | 6.04 | 142.2 | 378.5 | 0.78 | 14.34 |     |     |      |
| HOT TRANSIENT   | 5.68 | 89.7  | 339.4 | 1.49 | 17.87 |     |     |      |
| 1975 COMPOSITE  | 5.97 | 118.0 | 369.6 | 1.16 | 15.52 |     |     |      |
| IDLE KEYMODE    | 5419 | 7.80  |       | 74   |       | 426 | 240 | 6.80 |
| LOW CR. KEYMODE | 3349 | 1.27  |       | 1078 |       | 366 | 195 | 1.10 |
| HI. CR. KEYMODE | 3027 | 0.90  |       | 2300 |       | 360 | 180 | 0.80 |
| 2500 RPM        |      |       |       |      |       |     | 140 | 2.90 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 262

1973 CHEV STAW 454 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 017416 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0793

10/29/73 BAR:24.51 DB:78 WB:50  
REL.HUM:11.3% NOX COR: .793

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 8.23 | 34.9 | 764.6 | 6.29 | 10.53 |     |      |      |
| COLD STABILIZED | 6.43 | 42.6 | 704.3 | 2.69 | 11.25 |     |      |      |
| HOT TRANSIENT   | 6.34 | 30.8 | 620.8 | 5.13 | 12.92 |     |      |      |
| 1975 COMPOSITE  | 6.78 | 37.7 | 693.8 | 4.12 | 11.50 |     |      |      |
| IDLE KEYMODE    | 3604 | 3.09 |       | 44   |       | 470 | 240  | 2.30 |
| LOW CR. KEYMODE | 3003 | 0.20 |       | 1504 |       | 388 | 180  | 0.20 |
| HI. CR. KEYMODE | 2426 | 0.65 |       | 2982 |       | 289 | 120  | 0.45 |
| 2500 RPM        |      |      |       |      |       |     | 1600 | 0.28 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0808

10/30/73 BAR:24.56 DB:70 WB:50  
REL.HUM:24.5% NOX COR: .833

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 5.41 | 57.2 | 796.3 | 3.93 | 9.86  |     |      |      |
| COLD STABILIZED | 3.55 | 41.7 | 753.5 | 1.73 | 10.73 |     |      |      |
| HOT TRANSIENT   | 3.87 | 38.1 | 652.9 | 3.58 | 12.28 |     |      |      |
| 1975 COMPOSITE  | 4.03 | 44.0 | 734.6 | 2.70 | 10.91 |     |      |      |
| IDLE KEYMODE    | 2541 | 3.23 |       | 46   |       | 346 | 165  | 2.30 |
| LOW CR. KEYMODE | 2042 | 0.21 |       | 862  |       | 294 | 95   | 0.18 |
| HI. CR. KEYMODE | 1798 | 0.66 |       | 2131 |       | 266 | 60   | 0.60 |
| 2500 RPM        |      |      |       |      |       |     | 1300 | 0.25 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 265

1969 CHEV CAPR 327 4000LBS COMBINATION RETROFIT  
8CYL 4BBL AUTOMATIC 030213 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 9.60 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0847

11/02/73 BAR:24.62 DB:71 WB:50  
REL.HUM:22.5% NOX COR: .827

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.66 | 195.4 | 525.4 | 3.67 | 10.28 |     |     |      |
| COLD STABILIZED | 4.43  | 89.4  | 536.8 | 2.46 | 12.88 |     |     |      |
| HOT TRANSIENT   | 3.47  | 50.0  | 482.6 | 4.68 | 15.56 |     |     |      |
| 1975 COMPOSITE  | 5.47  | 100.7 | 519.4 | 3.33 | 12.82 |     |     |      |
| IDLE KEYMODE    | 3165  | 5.01  |       | 94   |       | 365 | 215 | 4.30 |
| LOW CR. KEYMODE | 3019  | 2.32  |       | 1508 |       | 406 | 225 | 2.10 |
| HI. CR. KEYMODE | 2682  | 1.16  |       | 3121 |       | 359 | 175 | 0.95 |
| 2500 RPM        |       |       |       |      |       |     | 115 | 2.00 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0831

11/01/73 BAR:24.24 DB:72 WB:52  
REL.HUM:26.7% NOX COR: .853

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.37 | 150.6 | 482.2 | 2.45 | 12.00 |     |     |      |
| COLD STABILIZED | 3.57 | 61.5  | 577.0 | 2.56 | 13.00 |     |     |      |
| HOT TRANSIENT   | 3.09 | 43.4  | 509.7 | 4.02 | 15.16 |     |     |      |
| 1975 COMPOSITE  | 4.24 | 75.1  | 538.5 | 2.94 | 13.30 |     |     |      |
| IDLE KEYMODE    | 2938 | 3.75  |       | 76   |       | 295 | 150 | 2.80 |
| LOW CR. KEYMODE | 2704 | 1.69  |       | 1479 |       | 390 | 210 | 1.40 |
| HI. CR. KEYMODE | 2118 | 0.57  |       | 2508 |       | 319 | 125 | 0.50 |
| 2500 RPM        |      |       |       |      |       |     | 115 | 1.60 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 273

1970 CHEV CAPR 400 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 047305 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST:12.00 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0832

11/01/73 BAR:24.24 DB:72 WB:51  
REL.HUM:23.8% NOX COR: .839

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.33 | 158.3 | 522.9 | 4.37 | 11.16 |     |     |      |
| COLD STABILIZED | 5.08 | 74.7  | 535.5 | 4.44 | 13.31 |     |     |      |
| HOT TRANSIENT   | 5.45 | 80.1  | 472.0 | 5.06 | 14.48 |     |     |      |
| 1975 COMPOSITE  | 5.86 | 93.7  | 515.3 | 4.59 | 13.08 |     |     |      |
| IDLE KEYMODE    | 4207 | 5.29  |       | 109  |       | 542 | 390 | 4.80 |
| LOW CR. KEYMODE | 3422 | 1.06  |       | 3366 |       | 478 | 270 | 0.95 |
| HI. CR. KEYMODE | 4133 | 4.01  |       | 1819 |       | 589 | 300 | 3.30 |
| 2500 RPM        |      |       |       |      |       |     | 140 | 1.60 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0845

11/02/73 BAR:24.64 DB:69 WB:50  
REL.HUM:26.6% NOX COR: .838

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.30 | 197.1 | 525.7 | 3.74 | 10.22 |     |     |      |
| COLD STABILIZED | 5.20  | 82.5  | 554.9 | 3.56 | 12.70 |     |     |      |
| HOT TRANSIENT   | 6.92  | 106.2 | 488.6 | 4.32 | 13.15 |     |     |      |
| 1975 COMPOSITE  | 6.96  | 113.1 | 530.4 | 3.81 | 12.20 |     |     |      |
| IDLE KEYMODE    | 3818  | 4.00  |       | 115  |       | 470 | 310 | 3.00 |
| LOW CR. KEYMODE | 3357  | 1.46  |       | 2645 |       | 439 | 250 | 1.10 |
| HI. CR. KEYMODE | 3424  | 3.18  |       | 2084 |       | 443 | 240 | 2.30 |
| 2500 RPM        |       |       |       |      |       |     | 75  | 1.70 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 274

1970 BUIC SKYL 350 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 034266 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0809

10/30/73 BAR:24.55 DB:69 WB:49  
REL.HUM:23.5% NOX COR: .825

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.96 | 143.2 | 615.0 | 3.83 | 10.29 |     |     |      |
| COLD STABILIZED | 3.70 | 44.9  | 624.7 | 4.30 | 12.59 |     |     |      |
| HOT TRANSIENT   | 2.84 | 27.6  | 547.7 | 5.37 | 14.84 |     |     |      |
| 1975 COMPOSITE  | 4.35 | 60.7  | 601.3 | 4.50 | 12.54 |     |     |      |
| IDLE KEYMODE    | 1764 | 0.71  |       | 226  |       | 230 | 120 | 0.60 |
| LOW CR. KEYMODE | 2277 | 0.59  |       | 2258 |       | 316 | 150 | 0.45 |
| HI. CR. KEYMODE | 1839 | 0.41  |       | 3098 |       | 269 | 90  | 0.36 |
| 2500 RPM        |      |       |       |      |       |     | 90  | 2.10 |

DRIVEABILITY DEMERITS 12

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0824

10/31/73 BAR:24.44 DB:71 WB:51  
REL.HUM:25.6% NOX COR: .842

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.08 | 254.0 | 598.3 | 1.37 | 8.71  |     |     |      |
| COLD STABILIZED | 3.93 | 102.9 | 603.0 | 1.57 | 11.46 |     |     |      |
| HOT TRANSIENT   | 3.85 | 112.4 | 517.9 | 1.98 | 12.60 |     |     |      |
| 1975 COMPOSITE  | 4.77 | 137.1 | 578.4 | 1.64 | 11.01 |     |     |      |
| IDLE KEYMODE    | 1680 | 0.67  |       | 196  |       | 239 | 110 | 0.55 |
| LOW CR. KEYMODE | 2394 | 0.99  |       | 1520 |       | 308 | 125 | 0.70 |
| HI. CR. KEYMODE | 3384 | 8.32  |       | 207  |       | 401 | 190 | 7.10 |
| 2500 RPM        |      |       |       |      |       |     | 125 | 2.20 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 282

1968 FORD FALC 170 3000LBS HIGH ALTITUDE RETROFIT  
6CYL 1BBL 3 SPEED 097889 MILES HAS: ENC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST:12.00 PARTS COST: 1.85

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0846

11/02/73 BAR:24.64 DB:71 WB:50  
REL.HUM:22.4% NOX COR: .827

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.43 | 43.8 | 380.7 | 3.10 | 19.08 |     |     |      |
| COLD STABILIZED | 4.17 | 32.2 | 417.3 | 1.96 | 18.51 |     |     |      |
| HOT TRANSIENT   | 3.79 | 30.9 | 346.1 | 3.40 | 21.90 |     |     |      |
| 1975 COMPOSITE  | 4.33 | 34.3 | 389.9 | 2.60 | 19.47 |     |     |      |
| IDLE KEYMODE    | 2368 | 1.07 |       | 87   |       | 342 | 140 | 0.60 |
| LOW CR. KEYMODE | 4164 | 0.61 |       | 2357 |       | 574 | 250 | 0.40 |
| HI. CR. KEYMODE | 4308 | 4.22 |       | 1037 |       | 595 | 300 | 3.60 |
| 2500 RPM        |      |      |       |      |       |     | 55  | 0.75 |

DRIVEABILITY DEMERITS 21

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0857

11/05/73 BAR:24.55 DB:72 WB:53  
REL.HUM:29.4% NOX COR: .864

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.90 | 64.0 | 392.4 | 2.25 | 17.40 |     |     |      |
| COLD STABILIZED | 3.16 | 49.3 | 413.9 | 1.49 | 17.77 |     |     |      |
| HOT TRANSIENT   | 3.27 | 46.5 | 330.1 | 2.38 | 21.54 |     |     |      |
| 1975 COMPOSITE  | 3.76 | 51.6 | 386.1 | 1.89 | 18.59 |     |     |      |
| IDLE KEYMODE    | 2869 | 3.13 |       | 61   |       | 338 | 140 | 1.60 |
| LOW CR. KEYMODE | 1950 | 0.73 |       | 1039 |       | 332 | 70  | 0.45 |
| HI. CR. KEYMODE | 4136 | 4.74 |       | 992  |       | 581 | 250 | 3.20 |
| 2500 RPM        |      |      |       |      |       |     | 50  | 0.47 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 283

1968 PONT CATA 400 4500LBS COMBINATION RETROFIT  
8CYL 4BBL AUTOMATIC 075255 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST:10.80 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0869

11/06/73 BAR:24.65 DB:69 WB:51  
REL.HUM:29.8% NOX COR: .851

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.52 | 63.1  | 510.9 | 6.75 | 14.19 |     |     |      |
| COLD STABILIZED | 8.17 | 185.2 | 630.3 | 3.71 | 9.40  |     |     |      |
| HOT TRANSIENT   | 4.93 | 71.9  | 484.2 | 6.40 | 14.53 |     |     |      |
| 1975 COMPOSITE  | 6.72 | 128.2 | 564.8 | 5.09 | 11.31 |     |     |      |
| IDLE KEYMODE    | 1914 | 0.14  |       | 55   |       | 345 | 125 | 0.10 |
| LOW CR. KEYMODE | 3869 | 4.15  |       | 1234 |       | 575 | 250 | 2.40 |
| HI. CR. KEYMODE | 2956 | 1.39  |       | 3438 |       | 436 | 160 | 0.90 |
| 2500 RPM        |      |       |       |      |       |     | 160 | 1.70 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0858

11/05/73 BAR:24.67 DB:72 WB:56  
REL.HUM:38.7% NOX COR: .912

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.58 | 189.3 | 572.2 | 1.80 | 10.00 |     |     |      |
| COLD STABILIZED | 6.07 | 190.0 | 513.9 | 0.83 | 10.71 |     |     |      |
| HOT TRANSIENT   | 5.68 | 172.6 | 455.6 | 1.29 | 11.96 |     |     |      |
| 1975 COMPOSITE  | 6.07 | 185.0 | 509.9 | 1.16 | 10.87 |     |     |      |
| IDLE KEYMODE    | 1211 | 0.17  |       | 103  |       | 181 | 60  | 0.12 |
| LOW CR. KEYMODE | 3537 | 5.26  |       | 370  |       | 451 | 230 | 3.60 |
| HI. CR. KEYMODE | 3617 | 6.42  |       | 544  |       | 438 | 210 | 4.30 |
| 2500 RPM        |      |       |       |      |       |     | 145 | 2.90 |

DRIVEABILITY DENERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 284

1971 AMMO AMBA 401 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 031837 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: AMER.MOT. LABOR COST: 4.80 PARTS COST: 1.40

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0880

11/06/73 BAR:24.63 DB:73 WB:52  
REL.HUM:24.4% NOX COR: .843

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.54 | 77.1 | 593.8 | 7.47 | 12.05 |     |     |      |
| COLD STABILIZED | 6.23 | 92.6 | 590.2 | 4.58 | 11.79 |     |     |      |
| HOT TRANSIENT   | 5.72 | 73.5 | 500.6 | 6.21 | 14.04 |     |     |      |
| 1975 COMPOSITE  | 6.36 | 84.1 | 566.1 | 5.64 | 12.40 |     |     |      |
| IDLE KEYMODE    | 3846 | 4.13 |       | 123  |       | 457 | 285 | 3.30 |
| LOW CR. KEYMODE | 3856 | 1.50 |       | 2635 |       | 486 | 290 | 1.40 |
| HI. CR. KEYMODE | 3708 | 2.29 |       | 3208 |       | 445 | 220 | 1.75 |
| 2500 RPM        |      |      |       |      |       |     | 300 | 1.40 |

DRIVEABILITY DEMERITS 30

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0894

11/07/73 BAR:24.68 DB:76 WB:54  
REL.HUM:24.3% NOX COR: .855

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.03 | 57.9 | 586.3 | 5.24 | 12.79 |     |     |      |
| COLD STABILIZED | 4.42 | 40.5 | 590.0 | 3.54 | 13.34 |     |     |      |
| HOT TRANSIENT   | 4.87 | 51.7 | 541.2 | 5.36 | 13.96 |     |     |      |
| 1975 COMPOSITE  | 4.88 | 47.2 | 575.7 | 4.40 | 13.39 |     |     |      |
| IDLE KEYMODE    | 2830 | 0.42 |       | 201  |       | 295 | 100 | 0.35 |
| LOW CR. KEYMODE | 3890 | 1.70 |       | 2386 |       | 466 | 150 | 0.90 |
| HI. CR. KEYMODE | 3836 | 2.71 |       | 2678 |       | 448 | 130 | 1.10 |
| 2500 RPM        |      |      |       |      |       |     | 80  | 0.90 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 285

1968 PLYM BARR 318 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 060568 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 9.60

PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0848

11/02/73 BAR:24.61 DB:69 WB:50  
REL.HUM:26.6% NOX COR: .838

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.91 | 26.6 | 585.2 | 6.56 | 13.79 |     |     |      |
| COLD STABILIZED | 3.50 | 35.8 | 492.2 | 4.16 | 15.91 |     |     |      |
| HOT TRANSIENT   | 2.73 | 21.7 | 448.0 | 5.68 | 18.15 |     |     |      |
| 1975 COMPOSITE  | 3.79 | 30.0 | 499.4 | 5.09 | 15.95 |     |     |      |
| IDLE KEYMODE    | 3696 | 5.22 |       | 84   |       | 414 | 250 | 4.50 |
| LOW CR. KEYMODE | 2873 | 0.32 |       | 3127 |       | 363 | 185 | 0.40 |
| HI. CR. KEYMODE | 2061 | 0.32 |       | 2654 |       | 283 | 100 | 0.29 |
| 2500 RPM        |      |      |       |      |       |     | 100 | 0.55 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0863

11/05/73 BAR:24.73 DB:70 WB:53  
REL.HUM:33.8% NOX COR: .874

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.69 | 133.4 | 470.8 | 3.00 | 12.64 |     |     |      |
| COLD STABILIZED | 3.94 | 59.2  | 479.9 | 3.36 | 15.21 |     |     |      |
| HOT TRANSIENT   | 3.61 | 59.1  | 427.4 | 3.79 | 16.75 |     |     |      |
| 1975 COMPOSITE  | 4.64 | 74.7  | 463.4 | 3.40 | 14.96 |     |     |      |
| IDLE KEYMODE    | 3809 | 5.55  |       | 78   |       | 435 | 215 | 5.00 |
| LOW CR. KEYMODE | 3354 | 1.85  |       | 1984 |       | 435 | 210 | 1.80 |
| HI. CR. KEYMODE | 3198 | 3.13  |       | 1398 |       | 375 | 170 | 2.85 |
| 2500 RPM        |      |       |       |      |       |     | 140 | 2.00 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 286

1968 DODG CHAR 318 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 065609 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 7.20 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0849

11/02/73 BAR:24.70 DB:70 WB:50  
REL.HUM:24.4% NOX COR: .832

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.41 | 116.5 | 461.3 | 3.85 | 13.27 |     |     |      |
| COLD STABILIZED | 5.77 | 44.1  | 473.5 | 5.63 | 15.87 |     |     |      |
| HOT TRANSIENT   | 4.70 | 29.6  | 433.0 | 6.38 | 18.01 |     |     |      |
| 1975 COMPOSITE  | 6.03 | 55.2  | 459.7 | 5.46 | 15.75 |     |     |      |
| IDLE KEYMODE    | 4241 | 3.06  |       | 118  |       | 539 | 330 | 2.35 |
| LOW CR. KEYMODE | 4369 | 1.05  |       | 2709 |       | 582 | 350 | 0.68 |
| HI. CR. KEYMODE | 3719 | 0.68  |       | 2885 |       | 424 | 210 | 0.60 |
| 2500 RPM        |      |       |       |      |       |     | 240 | 2.30 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0860

11/05/73 BAR:24.76 DB:72 WB:56  
REL.HUM:38.6% NOX COR: .911

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 43.98 | 295.6 | 368.6 | 1.30 | 9.16  |     |     |      |
| COLD STABILIZED | 7.53  | 100.7 | 438.2 | 2.71 | 14.36 |     |     |      |
| HOT TRANSIENT   | 6.79  | 95.3  | 374.8 | 2.40 | 16.31 |     |     |      |
| 1975 COMPOSITE  | 14.95 | 140.0 | 406.0 | 2.33 | 13.23 |     |     |      |
| IDLE KEYMODE    | 3862  | 2.82  |       | 78   |       | 451 | 210 | 1.70 |
| LOW CR. KEYMODE | 4772  | 1.56  |       | 2388 |       | 657 | 340 | 1.10 |
| HI. CR. KEYMODE | 4638  | 4.74  |       | 968  |       | 568 | 270 | 2.80 |
| 2500 RPM        |       |       |       |      |       |     | 240 | 2.30 |

DRIVEABILITY DEMERITS 9

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 287

1971 BUIC LESA 455 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 017998 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST:12.00 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0850

11/02/73 BAR:24.70 DB:70 WB:51  
REL.HUM:27.5% NOX COR: .845

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.29 | 160.5 | 712.9 | 4.89 | 8.98  |     |     |      |
| COLD STABILIZED | 5.40 | 97.9  | 776.0 | 2.12 | 9.41  |     |     |      |
| HOT TRANSIENT   | 4.95 | 73.7  | 641.2 | 4.51 | 11.53 |     |     |      |
| 1975 COMPOSITE  | 5.88 | 104.3 | 725.4 | 3.36 | 9.81  |     |     |      |
| IDLE KEYMODE    | 3443 | 3.54  |       | 84   |       | 352 | 200 | 2.90 |
| LOW CR. KEYMODE | 3441 | 2.76  |       | 1072 |       | 403 | 205 | 2.20 |
| HI. CR. KEYMODE | 2903 | 1.48  |       | 2608 |       | 335 | 135 | 1.25 |
| 2500 RPM        |      |       |       |      |       |     | 70  | 2.40 |

DRIVEABILITY DEMERITS 3

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0865

11/05/73 BAR:24.70 DB:71 WB:53  
REL.HUM:31.5% NOX COR: .869

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.03 | 125.1 | 839.4 | 4.32 | 8.42  |     |     |      |
| COLD STABILIZED | 5.04 | 116.9 | 794.5 | 1.69 | 8.96  |     |     |      |
| HOT TRANSIENT   | 4.64 | 94.6  | 642.7 | 3.35 | 11.05 |     |     |      |
| 1975 COMPOSITE  | 5.35 | 112.4 | 761.8 | 2.70 | 9.32  |     |     |      |
| IDLE KEYMODE    | 3498 | 3.92  |       | 76   |       | 356 | 160 | 3.50 |
| LOW CR. KEYMODE | 3396 | 3.38  |       | 618  |       | 381 | 165 | 3.00 |
| HI. CR. KEYMODE | 2628 | 1.81  |       | 1380 |       | 266 | 85  | 1.50 |
| 2500 RPM        |      |       |       |      |       |     | 65  | 2.40 |

DRIVEABILITY DEMERITS 16

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 288

1968 PONT TEMP 350 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 040178 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 9.60 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0855

11/05/73 BAR:24.55 DB:75 WB:57  
REL.HUM:34.9% NOX COR: .913

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.76 | 100.3 | 635.7 | 4.25 | 10.97 |     |     |      |
| COLD STABILIZED | 3.67 | 50.5  | 618.4 | 3.01 | 12.55 |     |     |      |
| HOT TRANSIENT   | 3.00 | 33.4  | 544.2 | 4.39 | 14.69 |     |     |      |
| 1975 COMPOSITE  | 3.92 | 56.2  | 601.4 | 3.65 | 12.69 |     |     |      |
| IDLE KEYMODE    | 2987 | 2.99  |       | 93   |       | 261 | 140 | 3.50 |
| LOW CR. KEYMODE | 2608 | 0.95  |       | 1415 |       | 311 | 170 | 0.80 |
| HI. CR. KEYMODE | 2266 | 0.28  |       | 2796 |       | 285 | 130 | 0.25 |
| 2500 RPM        |      |       |       |      |       |     | 60  | 0.70 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0836

11/01/73 BAR:24.20 DB:75 WB:51  
REL.HUM:18.5% NOX COR: .823

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.65 | 177.3 | 604.7 | 3.11 | 9.71  |     |     |      |
| COLD STABILIZED | 4.19  | 67.2  | 615.7 | 2.52 | 12.12 |     |     |      |
| HOT TRANSIENT   | 3.84  | 66.9  | 521.0 | 3.72 | 13.95 |     |     |      |
| 1975 COMPOSITE  | 5.44  | 90.2  | 587.1 | 2.97 | 11.94 |     |     |      |
| IDLE KEYMODE    | 3127  | 2.92  |       | 161  |       | 348 | 220 | 2.35 |
| LOW CR. KEYMODE | 3088  | 1.36  |       | 1652 |       | 355 | 210 | 1.40 |
| HI. CR. KEYMODE | 3080  | 2.39  |       | 1827 |       | 360 | 190 | 2.15 |
| 2500 RPM        |       |       |       |      |       |     | 120 | 1.90 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 291

1969 PLYM FURY 318 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 052667 MILES HAS: EMC, NO LVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 6.00 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0879

11/06/73 BAR:24.65 DB:74 WB:52  
REL.HUM:22.5% NOX COR: .838

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.87 | 72.8 | 500.3 | 5.23 | 14.06 |     |     |      |
| COLD STABILIZED | 4.27 | 49.0 | 512.6 | 5.40 | 14.77 |     |     |      |
| HOT TRANSIENT   | 3.58 | 33.8 | 466.3 | 7.04 | 16.78 |     |     |      |
| 1975 COMPOSITE  | 4.41 | 49.8 | 497.2 | 6.03 | 15.11 |     |     |      |
| IDLE KEYMODE    | 3536 | 1.39 |       | 147  |       | 408 | 295 | 1.60 |
| LOW CR. KEYMODE | 3464 | 1.20 |       | 2764 |       | 444 | 260 | 1.10 |
| HI. CR. KEYMODE | 2809 | 0.33 |       | 4074 |       | 350 | 150 | 0.38 |
| 2500 RPM        |      |      |       |      |       |     | 170 | 1.70 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0892

11/07/73 BAR:24.68 DB:74 WB:52  
REL.HUM:22.4% NOX COR: .837

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 7.89  | 153.3 | 473.4 | 2.79 | 12.05 |      |      |      |
| COLD STABILIZED | 6.59  | 102.0 | 468.9 | 2.30 | 13.70 |      |      |      |
| HOT TRANSIENT   | 27.63 | 109.3 | 440.3 | 2.77 | 12.73 |      |      |      |
| 1975 COMPOSITE  | 12.70 | 114.8 | 461.9 | 2.53 | 13.05 |      |      |      |
| IDLE KEYMODE    | 9051  | 1.57  |       | 80   |       | 2054 | 1620 | 1.00 |
| LOW CR. KEYMODE | 10404 | 3.15  |       | 1069 |       | 2018 | **** | 8.20 |
| HI. CR. KEYMODE | 10327 | 2.41  |       | 1678 |       | 1991 | 1990 | 5.50 |
| 2500 RPM        |       |       |       |      |       |      | 1790 | 2.40 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADC-393 \*\*\*

VEHICLE 292

1971 CHEV NOVA 307 3500LBS HIGH ALTITUDE, RETROFIT  
8CYL 2B8L AUTOMATIC 029533 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 9.60 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0878

11/06/73 BAR:24.65 DB:73 WB:52  
REL.HUM:24.4% NOX COR: .843

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.21 | 55.6 | 521.7 | 7.19 | 14.02 |     |     |      |
| COLD STABILIZED | 6.30 | 51.2 | 460.9 | 4.04 | 15.87 |     |     |      |
| HOT TRANSIENT   | 5.99 | 47.7 | 415.3 | 5.90 | 17.49 |     |     |      |
| 1975 COMPOSITE  | 6.61 | 51.1 | 461.0 | 5.21 | 15.84 |     |     |      |
| IDLE KEYMODE    | 6461 | 6.18 |       | 73   |       | 853 | 740 | 6.00 |
| LOW CR. KEYMODE | 5009 | 2.21 |       | 2083 |       | 727 | 530 | 2.40 |
| HI. CR. KEYMODE | 4151 | 0.98 |       | 3634 |       | 564 | 330 | 1.00 |
| 2500 RPM        |      |      |       |      |       |     | 155 | 1.30 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0891

11/07/73 BAR:24.68 DB:77 WB:54  
REL.HUM:22.5% NOX COR: .850

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.41 | 74.0 | 598.5 | 5.01 | 12.06 |     |     |      |
| COLD STABILIZED | 5.04 | 30.2 | 609.0 | 4.35 | 13.24 |     |     |      |
| HOT TRANSIENT   | 4.83 | 46.4 | 467.7 | 4.84 | 16.02 |     |     |      |
| 1975 COMPOSITE  | 5.48 | 43.9 | 567.6 | 4.62 | 13.62 |     |     |      |
| IDLE KEYMODE    | 4965 | 5.06 |       | 64   |       | 488 | 300 | 3.60 |
| LOW CR. KEYMODE | 3992 | 1.22 |       | 1912 |       | 525 | 330 | 1.10 |
| HI. CR. KEYMODE | 3337 | 0.99 |       | 2555 |       | 367 | 190 | 0.75 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 1.60 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 293

1972 FORD MUST 351 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 019843 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 2.40 PARTS COST: 0.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0859

11/05/73 BAR:24.73 DB:75 WB:56  
REL.HUM:31.8% NOX COR: .893

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.48 | 142.1 | 695.3 | 1.67 | 9.45  |     |     |      |
| COLD STABILIZED | 4.37 | 77.5  | 655.5 | 1.14 | 11.26 |     |     |      |
| HOT TRANSIENT   | 5.07 | 85.3  | 535.5 | 1.41 | 12.99 |     |     |      |
| 1975 COMPOSITE  | 5.21 | 93.2  | 630.6 | 1.32 | 11.23 |     |     |      |
| IDLE KEYMODE    | 3516 | 2.72  |       | 61   |       | 369 | 180 | 1.60 |
| LOW CR. KEYMODE | 2742 | 1.55  |       | 589  |       | 263 | 105 | 1.10 |
| HI. CR. KEYMODE | 3188 | 2.70  |       | 847  |       | 302 | 120 | 1.80 |
| 2500 RPM        |      |       |       |      |       |     | 95  | 1.20 |

DRIVEABILITY DEMERITS 3

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0882

11/06/73 BAR:24.62 DB:78 WB:55  
REL.HUM:23.4% NOX COR: .860

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 11.00 | 189.5 | 574.3 | 1.98 | 9.82  |      |     |      |
| COLD STABILIZED | 9.72  | 163.8 | 537.5 | 1.11 | 10.79 |      |     |      |
| HOT TRANSIENT   | 7.51  | 109.2 | 481.4 | 1.96 | 13.16 |      |     |      |
| 1975 COMPOSITE  | 9.37  | 154.0 | 529.6 | 1.53 | 11.12 |      |     |      |
| IDLE KEYMODE    | 9665  | 9.64  |       | 21   |       | 1001 | 630 | 7.60 |
| LOW CR. KEYMODE | 3755  | 2.45  |       | 586  |       | 432  | 265 | 2.30 |
| HI. CR. KEYMODE | 3692  | 2.94  |       | 1197 |       | 408  | 225 | 2.70 |
| 2500 RPM        |       |       |       |      |       |      | 135 | 3.00 |

DRIVEABILITY DEMERITS 8

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 294

1969 CHRY NEWP 383 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 065163 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 7.20 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0867

11/05/73 BAR:24.67 DB:72 WB:53  
REL.HUM:29.3% NOX COR: .863

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 15.71 | 133.5 | 567.6 | 3.07 | 10.77 |     |     |      |
| COLD STABILIZED | 4.30  | 35.4  | 636.3 | 3.47 | 12.62 |     |     |      |
| HOT TRANSIENT   | 7.47  | 80.6  | 521.6 | 3.55 | 13.25 |     |     |      |
| 1975 COMPOSITE  | 7.57  | 68.5  | 590.1 | 3.41 | 12.34 |     |     |      |
| IDLE KEYMODE    | 2178  | 0.14  |       | 180  |       | 287 | 80  | 0.11 |
| LOW CR. KEYMODE | 3309  | 1.58  |       | 1968 |       | 403 | 125 | 1.40 |
| HI. CR. KEYMODE | 3453  | 3.12  |       | 1753 |       | 414 | 110 | 2.90 |
| 2500 RPM        |       |       |       |      |       |     | 450 | 2.00 |

DRIVEABILITY DEMERITS 58

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0883

11/06/73 BAR:24.63 DB:70 WB:50  
REL.HUM:24.5% NOX COR: .832

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.33 | 151.0 | 633.0 | 2.35 | 9.97  |     |     |      |
| COLD STABILIZED | 3.08 | 37.7  | 706.2 | 2.41 | 11.49 |     |     |      |
| HOT TRANSIENT   | 4.22 | 79.0  | 556.3 | 2.55 | 12.84 |     |     |      |
| 1975 COMPOSITE  | 4.29 | 72.9  | 649.3 | 2.43 | 11.46 |     |     |      |
| IDLE KEYMODE    | 1855 | 0.39  |       | 171  |       | 215 | 100 | 0.20 |
| LOW CR. KEYMODE | 4140 | 1.07  |       | 1511 |       | 415 | 180 | 0.80 |
| HI. CR. KEYMODE | 3921 | 2.91  |       | 1485 |       | 446 | 140 | 2.30 |
| 2500 RPM        |      |       |       |      |       |     | 350 | 0.50 |

DRIVEABILITY DEMERITS 30

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 295

1970 DODG POLA 383 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 053254 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 7.20 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0881

11/06/73 BAR:24.62 DB:73 WB:52  
REL.HUM:24.4% NOX COR: .843

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.34 | 87.6 | 595.3 | 4.74 | 11.78 |     |     |      |
| COLD STABILIZED | 4.94 | 71.4 | 627.7 | 4.06 | 11.79 |     |     |      |
| HOT TRANSIENT   | 3.74 | 58.9 | 543.0 | 5.57 | 13.76 |     |     |      |
| 1975 COMPOSITE  | 5.11 | 71.3 | 597.4 | 4.62 | 12.28 |     |     |      |
| IDLE KEYMODE    | 3523 | 4.45 |       | 82   |       | 353 | 160 | 3.50 |
| LOW CR. KEYMODE | 3080 | 0.35 |       | 3115 |       | 368 | 150 | 0.28 |
| HI. CR. KEYMODE | 2767 | 0.97 |       | 2675 |       | 319 | 110 | 0.65 |
| 2500 RPM        |      |      |       |      |       |     | 40  | 0.25 |

DRIVEABILITY DEMERITS 48

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0895

11/07/73 BAR:24.69 DB:78 WB:56  
REL.HUM:26.0% NOX COR: .875

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.01 | 98.2 | 622.6 | 4.23 | 11.19 |     |     |      |
| COLD STABILIZED | 4.19 | 74.0 | 636.9 | 3.39 | 11.62 |     |     |      |
| HOT TRANSIENT   | 4.14 | 88.4 | 568.7 | 4.09 | 12.36 |     |     |      |
| 1975 COMPOSITE  | 4.56 | 83.0 | 615.0 | 3.76 | 11.72 |     |     |      |
| IDLE KEYMODE    | 3589 | 4.80 |       | 70   |       | 336 | 100 | 1.80 |
| LOW CR. KEYMODE | 3093 | 0.40 |       | 2376 |       | 350 | 90  | 0.20 |
| HI. CR. KEYMODE | 3131 | 1.70 |       | 1977 |       | 337 | 90  | 0.75 |
| 2500 RPM        |      |      |       |      |       |     | 40  | 0.40 |

DRIVEABILITY DEMERITS 12

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 297

1971 PLYM DUST 198 3000LBS HIGH ALTITUDE RETROFIT  
6CYL 1BBL 3 SPEED Q27784 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 4.80 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0896

11/07/73 BAR:24.69 DB:76 WB:54  
REL.HUM:24.3% NOX COR: .855

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.17 | 64.2 | 362.7 | 4.27 | 18.56 |     |     |      |
| COLD STABILIZED | 4.12 | 29.5 | 380.6 | 3.49 | 20.24 |     |     |      |
| HOT TRANSIENT   | 3.91 | 42.0 | 316.9 | 3.70 | 22.53 |     |     |      |
| 1975 COMPOSITE  | 4.28 | 40.2 | 359.2 | 3.72 | 20.43 |     |     |      |
| IDLE KEYMODE    | 5990 | 0.18 |       | 50   |       | 962 | 600 | 0.15 |
| LOW CR. KEYMODE | 3843 | 3.46 |       | 1443 |       | 474 | 335 | 3.20 |
| HI. CR. KEYMODE | 3212 | 3.01 |       | 2017 |       | 373 | 220 | 2.70 |
| 2500 RPM        |      |      |       |      |       |     | 150 | 1.70 |

DRIVEABILITY DEMERITS 8

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0908

11/08/73 BAR:24.72 DB:74 WB:52  
REL.HUM:22.4% NOX COR: .837

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.35 | 132.8 | 333.3 | 1.42 | 15.76 |     |     |      |
| COLD STABILIZED | 4.77 | 104.2 | 349.5 | 0.89 | 16.85 |     |     |      |
| HOT TRANSIENT   | 4.92 | 105.6 | 294.5 | 1.18 | 18.71 |     |     |      |
| 1975 COMPOSITE  | 5.35 | 110.6 | 330.9 | 1.08 | 17.08 |     |     |      |
| IDLE KEYMODE    | 2754 | 1.65  |       | 82   |       | 278 | 140 | 1.20 |
| LOW CR. KEYMODE | 3115 | 3.36  |       | 1271 |       | 355 | 200 | 0.80 |
| HI. CR. KEYMODE | 4053 | 9.38  |       | 190  |       | 472 | 275 | 7.50 |
| 2500 RPM        |      |       |       |      |       |     | 170 | 3.40 |

DRIVEABILITY DEMERITS 7

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 298

1972 AMMO JAVE 360 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL 4 SPEED 023737 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: AMER.MOT.

LABOR COST: 7.20 PARTS COST: 2.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0897

11/07/73 BAR:24.69 DB:76 WB:54  
REL.HUM:24.3% NOX COR: .855

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 21.57 | 212.8 | 543.6 | 1.47 | 9.41  |     |     |      |
| COLD STABILIZED | 7.68  | 79.7  | 585.3 | 2.60 | 12.12 |     |     |      |
| HOT TRANSIENT   | 4.87  | 75.3  | 505.8 | 3.53 | 13.92 |     |     |      |
| 1975 COMPOSITE  | 9.81  | 106.4 | 554.5 | 2.62 | 11.83 |     |     |      |
| IDLE KEYMODE    | 1299  | 0.73  |       | 69   |       | 213 | 75  | 0.55 |
| LOW CR. KEYMODE | 1808  | 1.25  |       | 1628 |       | 268 | 100 | 0.95 |
| HI. CR. KEYMODE | 2158  | 2.05  |       | 1624 |       | 306 | 115 | 1.60 |
| 2500 RPM        |       |       |       |      |       |     | 50  | 0.30 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0907

11/08/73 BAR:24.72 DB:74 WB:52  
REL.HUM:22.4% NOX COR: .837

|                 | HC    | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 10.87 | 79.2 | 588.3 | 4.22 | 11.92 |      |     |      |
| COLD STABILIZED | 9.11  | 42.4 | 619.6 | 2.91 | 12.45 |      |     |      |
| HOT TRANSIENT   | 7.67  | 63.8 | 475.1 | 3.47 | 14.85 |      |     |      |
| 1975 COMPOSITE  | 9.08  | 56.0 | 572.9 | 3.34 | 12.91 |      |     |      |
| IDLE KEYMODE    | 9471  | 0.46 |       | 69   |       | 1945 | 270 | 0.25 |
| LOW CR. KEYMODE | 2856  | 0.32 |       | 1682 |       | 396  | 140 | 0.21 |
| HI. CR. KEYMODE | 2193  | 1.16 |       | 2179 |       | 328  | 120 | 0.80 |
| 2500 RPM        |       |      |       |      |       |      | 140 | 0.19 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 299

1972 PLYM SATE 318 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 028091 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 7.20 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0910

11/08/73 BAR:24.73 DB:74 WB:54  
REL.HUM:28.1% NOX COR: .866

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.78 | 44.6 | 606.8 | 2.67 | 12.93 |     |     |      |
| COLD STABILIZED | 3.93 | 77.8 | 565.4 | 1.93 | 12.72 |     |     |      |
| HOT TRANSIENT   | 3.70 | 51.8 | 501.2 | 2.81 | 14.99 |     |     |      |
| 1975 COMPOSITE  | 3.84 | 63.6 | 556.2 | 2.33 | 13.33 |     |     |      |
| IDLE KEYMODE    | 5990 | 8.72 |       | 52   |       | 657 | 350 | 5.80 |
| LOW CR. KEYMODE | 2840 | 0.98 |       | 948  |       | 329 | 140 | 1.00 |
| HI. CR. KEYMODE | 2471 | 0.97 |       | 1547 |       | 285 | 110 | 0.85 |
| 2500 RPM        |      |      |       |      |       |     | 105 | 2.30 |

DRIVEABILITY DEMERITS 7

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0926

11/09/73 BAR:24.85 DB:76 WB:55  
REL.HUM:26.8% NOX COR: .869

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.31 | 110.5 | 520.2 | 1.74 | 12.53 |     |     |      |
| COLD STABILIZED | 5.04 | 123.3 | 520.0 | 1.33 | 12.20 |     |     |      |
| HOT TRANSIENT   | 5.21 | 107.6 | 484.3 | 1.81 | 13.29 |     |     |      |
| 1975 COMPOSITE  | 5.14 | 116.3 | 510.1 | 1.55 | 12.56 |     |     |      |
| IDLE KEYMODE    | 4274 | 5.74  |       | 69   |       | 546 | 340 | 4.10 |
| LOW CR. KEYMODE | 3341 | 3.33  |       | 550  |       | 360 | 220 | 2.70 |
| HI. CR. KEYMODE | 3255 | 3.70  |       | 813  |       | 335 | 185 | 2.90 |
| 2500 RPM        |      |       |       |      |       |     | 210 | 4.30 |

DRIVEABILITY DEMERITS 16

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 301

1973 MERC COME 302 3000LBS

HIGH ALTITUDE RETROFIT

8CYL 2BBL AUTOMATIC

010804 MILES

HAS: EMC, EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 7.20

PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0911

11/08/73 BAR:24.71 DB:76 WB:55

REL.HUM:27.0% NOX COR: .870

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.92 | 67.3 | 556.1 | 2.45 | 13.08 |     |     |      |
| COLD STABILIZED | 4.70 | 61.3 | 569.4 | 1.56 | 13.08 |     |     |      |
| HOT TRANSIENT   | 4.44 | 55.2 | 477.6 | 1.90 | 15.40 |     |     |      |
| 1975 COMPOSITE  | 4.89 | 60.9 | 541.2 | 1.84 | 13.66 |     |     |      |
| IDLE KEYMODE    | 3856 | 3.21 |       | 151  |       | 480 | 365 | 2.70 |
| LOW CR. KEYMODE | 3834 | 2.30 |       | 875  |       | 452 | 310 | 1.80 |
| HI. CR. KEYMODE | 3756 | 2.02 |       | 1270 |       | 439 | 275 | 1.75 |
| 2500 RPM        |      |      |       |      |       |     | 135 | 2.30 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0927

11/09/73 BAR:24.86 DB:72 WB:54

REL.HUM:32.2% NOX COR: .876

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.17 | 66.9 | 565.2 | 1.75 | 12.91 |     |     |      |
| COLD STABILIZED | 3.87 | 52.8 | 549.8 | 1.21 | 13.81 |     |     |      |
| HOT TRANSIENT   | 4.36 | 74.4 | 459.6 | 1.18 | 15.08 |     |     |      |
| 1975 COMPOSITE  | 4.49 | 61.7 | 528.0 | 1.31 | 13.93 |     |     |      |
| IDLE KEYMODE    | 3689 | 3.33 |       | 81   |       | 448 | 370 | 3.20 |
| LOW CR. KEYMODE | 3600 | 2.79 |       | 477  |       | 408 | 280 | 2.30 |
| HI. CR. KEYMODE | 3599 | 2.43 |       | 805  |       | 415 | 260 | 2.20 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 2.10 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 302

1973 BUIC CENT 350 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 006508 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 6.00 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0900

11/07/73 BAR:24.69 DB:77 WB:55  
REL.HUM:25.1% NOX COR: .865

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.84 | 178.9 | 581.8 | 1.36 | 10.10 |     |     |      |
| COLD STABILIZED | 3.70 | 102.9 | 615.5 | 0.89 | 11.29 |     |     |      |
| HOT TRANSIENT   | 3.77 | 117.4 | 508.2 | 1.23 | 12.64 |     |     |      |
| 1975 COMPOSITE  | 4.17 | 122.8 | 578.7 | 1.08 | 11.35 |     |     |      |
| IDLE KEYMODE    | 1978 | 1.32  |       | 109  |       | 243 | 110 | 1.05 |
| LOW CR. KEYMODE | 3269 | 4.63  |       | 280  |       | 424 | 225 | 3.55 |
| HI. CR. KEYMODE | 3188 | 5.08  |       | 733  |       | 400 | 200 | 3.95 |
| 2500 RPM        |      |       |       |      |       |     | 40  | 0.80 |

DRIVEABILITY DEMERITS 5

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0871

11/06/73 BAR:24.65 DB:69 WB:50  
REL.HUM:26.6% NOX COR: .837

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.83 | 129.6 | 656.3 | 1.58 | 10.21 |     |     |      |
| COLD STABILIZED | 2.44 | 73.1  | 668.8 | 0.90 | 11.25 |     |     |      |
| HOT TRANSIENT   | 2.85 | 88.4  | 531.2 | 2.06 | 13.11 |     |     |      |
| 1975 COMPOSITE  | 2.84 | 89.2  | 628.0 | 1.36 | 11.46 |     |     |      |
| IDLE KEYMODE    | 534  | 0.80  |       | 72   |       | 172 | 35  | 0.62 |
| LOW CR. KEYMODE | 2278 | 3.61  |       | 445  |       | 366 | 145 | 0.80 |
| HI. CR. KEYMODE | 1801 | 3.10  |       | 1091 |       | 320 | 100 | 0.80 |
| 2500 RPM        |      |       |       |      |       |     | 35  | 0.20 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 303

1973 PLYM DUST 318 3500LBS. HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 006473 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 4.80 PARTS COST: 1.75

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0912

11/08/73 BAR:24.72 DB:77 WB:56  
REL.HUM:27.8% NOX COR: .881

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.93 | 46.6 | 613.6 | 3.11 | 12.74 |     |     |      |
| COLD STABILIZED | 2.62 | 24.9 | 581.4 | 2.45 | 14.16 |     |     |      |
| HOT TRANSIENT   | 2.67 | 23.2 | 507.2 | 3.15 | 16.13 |     |     |      |
| 1975 COMPOSITE  | 2.91 | 28.9 | 567.5 | 2.78 | 14.32 |     |     |      |
| IDLE KEYMODE    | 2244 | 1.48 |       | 130  |       | 279 | 130 | 1.05 |
| LOW CR. KEYMODE | 3033 | 0.75 |       | 2735 |       | 368 | 170 | 0.40 |
| HI. CR. KEYMODE | 2332 | 0.60 |       | 1550 |       | 286 | 110 | 0.45 |
| 2500 RPM        |      |      |       |      |       |     | 50  | 0.40 |

DRIVEABILITY DEMERITS 14

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0875

11/06/73 BAR:24.65 DB:82 WB:56  
REL.HUM:19.5% NOX COR: .853

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.26 | 134.8 | 500.8 | 1.64 | 12.11 |     |     |      |
| COLD STABILIZED | 3.66 | 77.5  | 505.2 | 1.35 | 13.95 |     |     |      |
| HOT TRANSIENT   | 3.74 | 86.9  | 455.4 | 1.66 | 14.75 |     |     |      |
| 1975 COMPOSITE  | 4.43 | 92.1  | 490.5 | 1.50 | 13.72 |     |     |      |
| IDLE KEYMODE    | 2377 | 2.45  |       | 76   |       | 242 | 45  | 0.60 |
| LOW CR. KEYMODE | 3220 | 2.36  |       | 1455 |       | 424 | 85  | 0.70 |
| HI. CR. KEYMODE | 3186 | 3.66  |       | 781  |       | 394 | 80  | 1.00 |
| 2500 RPM        |      |       |       |      |       |     | 80  | 0.90 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 304

1972 DODG CORO 318 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 022983 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: CHRYSLER

LABOR COST: 4.80 PARTS COST: 0.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0913

11/08/73 BAR:24.73 DB:78 WB:56  
REL.HUM:25.9% NOX COR: .875

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 12.37 | 100.3 | 535.9 | 3.46 | 12.15 |     |     |      |
| COLD STABILIZED | 2.66  | 5.2   | 543.2 | 2.27 | 15.91 |     |     |      |
| HOT TRANSIENT   | 2.57  | 3.2   | 458.4 | 3.78 | 18.57 |     |     |      |
| 1975 COMPOSITE  | 4.67  | 25.9  | 518.2 | 2.94 | 15.53 |     |     |      |
| IDLE KEYMODE    | 1856  | 0.11  |       | 59   |       | 278 | 75  | 0.06 |
| LOW CR. KEYMODE | 1982  | 0.15  |       | 1076 |       | 285 | 65  | 0.07 |
| HI. CR. KEYMODE | 2134  | 0.22  |       | 2633 |       | 290 | 65  | 0.10 |
| 2500 RPM        |       |       |       |      |       |     | 60  | 0.15 |

DRIVEABILITY DEMERITS 7

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0928

11/09/73 BAR:24.86 DB:80 WB:60  
REL.HUM:32.7% NOX COR: .933

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.46 | 63.7 | 561.5 | 3.39 | 13.18 |     |     |      |
| COLD STABILIZED | 3.37 | 49.1 | 555.1 | 2.08 | 13.85 |     |     |      |
| HOT TRANSIENT   | 3.75 | 78.1 | 445.6 | 2.19 | 15.35 |     |     |      |
| 1975 COMPOSITE  | 3.71 | 60.2 | 526.1 | 2.38 | 14.09 |     |     |      |
| IDLE KEYMODE    | 2822 | 3.05 |       | 95   |       | 306 | 170 | 2.70 |
| LOW CR. KEYMODE | 3025 | 2.21 |       | 1003 |       | 390 | 180 | 1.60 |
| HI. CR. KEYMODE | 3404 | 4.18 |       | 816  |       | 439 | 220 | 3.20 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 1.80 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 305

1969 AMMO AMBA 290 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 054001 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: AMER.MOT.

LABOR COST: 3.60 PARTS COST: 0.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0914

11/08/73 BAR:24.71 DB:73 WB:52  
REL.HUM:24.3% NOX COR: .843

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.55 | 155.7 | 505.4 | 2.79 | 11.46 |     |     |      |
| COLD STABILIZED | 4.59 | 50.7  | 527.8 | 3.68 | 14.32 |     |     |      |
| HOT TRANSIENT   | 6.00 | 66.5  | 461.8 | 4.31 | 15.22 |     |     |      |
| 1975 COMPOSITE  | 5.81 | 77.1  | 504.8 | 3.67 | 13.83 |     |     |      |
| IDLE KEYMODE    | 4613 | 4.06  |       | 87   |       | 668 | 360 | 3.50 |
| LOW CR. KEYMODE | 3860 | 1.26  |       | 2242 |       | 516 | 310 | 1.10 |
| HI. CR. KEYMODE | 4472 | 5.17  |       | 636  |       | 576 | 425 | 5.10 |
| 2500 RPM        |      |       |       |      |       |     | 140 | 0.90 |

DRIVEABILITY DEMERITS 30

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0886

11/07/73 BAR:24.67 DB:76 WB:51  
REL.HUM:16.4% NOX COR: .814

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.03 | 133.3 | 527.6 | 2.14 | 11.78 |     |     |      |
| COLD STABILIZED | 4.66 | 91.3  | 544.5 | 2.18 | 12.67 |     |     |      |
| HOT TRANSIENT   | 5.41 | 118.5 | 475.3 | 2.28 | 13.12 |     |     |      |
| 1975 COMPOSITE  | 5.16 | 107.6 | 521.8 | 2.20 | 12.60 |     |     |      |
| IDLE KEYMODE    | 4060 | 5.50  |       | 68   |       | 412 | 300 | 4.90 |
| LOW CR. KEYMODE | 3441 | 2.02  |       | 1171 |       | 424 | 255 | 2.20 |
| HI. CR. KEYMODE | 4170 | 5.65  |       | 671  |       | 527 | 330 | 5.00 |
| 2500 RPM        |      |       |       |      |       |     | 180 | 3.00 |

DRIVEABILITY DEMERITS 8

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 306

1969 BUIC ELEC 430 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 034898 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 8.40 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0929

11/09/73 BAR:24.86 DB:79 WB:58  
REL.HUM:29.3% NOX COR: .901

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.73 | 114.8 | 679.2 | 5.64 | 10.11 |     |     |      |
| COLD STABILIZED | 5.01 | 73.4  | 709.6 | 3.00 | 10.59 |     |     |      |
| HOT TRANSIENT   | 4.23 | 53.6  | 588.7 | 5.23 | 12.98 |     |     |      |
| 1975 COMPOSITE  | 5.16 | 76.6  | 669.7 | 4.17 | 11.05 |     |     |      |
| IDLE KEYMODE    | 3050 | 1.67  |       | 140  |       | 271 | 190 | 1.10 |
| LOW CR. KEYMODE | 3183 | 1.57  |       | 1300 |       | 328 | 180 | 1.00 |
| HI. CR. KEYMODE | 3002 | 1.22  |       | 2743 |       | 334 | 165 | 0.80 |
| 2500 RPM        |      |       |       |      |       |     | 110 | 1.50 |

DRIVEABILITY DEMERITS 16

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0941

11/12/73 BAR:24.70 DB:69 WB:46  
REL.HUM:14.3% NOX COR: .789

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.76 | 116.2 | 633.2 | 6.19 | 10.64 |     |     |      |
| COLD STABILIZED | 5.67 | 90.5  | 614.2 | 3.37 | 11.50 |     |     |      |
| HOT TRANSIENT   | 4.72 | 70.1  | 540.3 | 5.31 | 13.38 |     |     |      |
| 1975 COMPOSITE  | 5.64 | 90.2  | 597.7 | 4.50 | 11.76 |     |     |      |
| IDLE KEYMODE    | 4158 | 3.15  |       | 156  |       | 496 | 420 | 2.90 |
| LOW CR. KEYMODE | 3549 | 2.12  |       | 1767 |       | 450 | 325 | 2.00 |
| HI. CR. KEYMODE | 3118 | 1.55  |       | 3107 |       | 399 | 255 | 1.55 |
| 2500 RPM        |      |       |       |      |       |     | 195 | 3.00 |

DRIVEABILITY DEMERITS 14

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 307

1969 CHEV NOVA 230 3000LBS HIGH ALTITUDE RETROFIT  
6CYL 1BBL AUTOMATIC 029124 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 4.80 PARTS COST: 0.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0932

11/09/73 BAR:24.84 DB:77 WB:57  
REL.HUM:30.5% NOX COR: .896

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.35 | 128.6 | 459.1 | 2.63 | 13.01 |     |     |      |
| COLD STABILIZED | 3.12 | 42.7  | 452.2 | 2.52 | 16.83 |     |     |      |
| HOT TRANSIENT   | 3.10 | 52.7  | 384.9 | 2.84 | 18.65 |     |     |      |
| 1975 COMPOSITE  | 4.00 | 63.5  | 435.0 | 2.63 | 16.27 |     |     |      |
| IDLE KEYMODE    | 2776 | 1.49  |       | 166  |       | 328 | 250 | 1.25 |
| LOW CR. KEYMODE | 3341 | 3.25  |       | 1109 |       | 372 | 275 | 3.10 |
| HI. CR. KEYMODE | 3218 | 4.16  |       | 1011 |       | 347 | 205 | 3.80 |
| 2500 RPM        |      |       |       |      |       |     | 350 | 2.40 |

DRIVEABILITY DEMERITS 14

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0949

11/12/73 BAR:24.52 DB:73 WB:52  
REL.HUM:24.5% NOX COR: .844

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.15 | 128.4 | 430.8 | 2.61 | 13.53 |     |     |      |
| COLD STABILIZED | 3.37 | 57.5  | 457.9 | 2.54 | 15.93 |     |     |      |
| HOT TRANSIENT   | 3.22 | 64.5  | 393.0 | 3.03 | 17.65 |     |     |      |
| 1975 COMPOSITE  | 4.33 | 74.3  | 434.2 | 2.69 | 15.78 |     |     |      |
| IDLE KEYMODE    | 3718 | 5.50  |       | 70   |       | 351 | 250 | 4.60 |
| LOW CR. KEYMODE | 3255 | 2.89  |       | 1232 |       | 385 | 275 | 2.60 |
| HI. CR. KEYMODE | 3269 | 4.71  |       | 850  |       | 351 | 220 | 4.00 |
| 2500 RPM        |      |       |       |      |       |     | 200 | 0.75 |

DRIVEABILITY DEMERITS 26

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 308

1969 FORD TORI 351 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 021037 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 6.00 PARTS COST: 1.85

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0930

11/09/73 BAR:24.86 DB:71 WB:54  
REL.HUM:34.5% NOX COR: .882

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.92 | 50.6 | 590.7 | 4.15 | 12.93 |     |     |      |
| COLD STABILIZED | 3.72 | 30.4 | 598.1 | 3.10 | 13.54 |     |     |      |
| HOT TRANSIENT   | 5.26 | 30.4 | 483.0 | 3.55 | 16.27 |     |     |      |
| 1975 COMPOSITE  | 4.60 | 34.7 | 564.6 | 3.45 | 14.06 |     |     |      |
| IDLE KEYMODE    | 3949 | 3.27 |       | 144  |       | 506 | 390 | 2.80 |
| LOW CR. KEYMODE | 2991 | 0.29 |       | 1487 |       | 380 | 210 | 0.28 |
| HI. CR. KEYMODE | 3458 | 1.30 |       | 2151 |       | 422 | 270 | 1.30 |
| 2500 RPM        |      |      |       |      |       |     | 60  | 0.60 |

DRIVEABILITY DEMERITS 3

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0953

11/13/73 BAR:24.50 DB:74 WB:51  
REL.HUM:19.9% NOX COR: .826

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.09 | 70.7 | 571.3 | 3.08 | 12.69 |     |     |      |
| COLD STABILIZED | 3.71 | 31.4 | 587.8 | 3.19 | 13.72 |     |     |      |
| HOT TRANSIENT   | 4.91 | 33.8 | 496.4 | 3.24 | 15.76 |     |     |      |
| 1975 COMPOSITE  | 4.54 | 40.3 | 559.0 | 3.18 | 13.99 |     |     |      |
| IDLE KEYMODE    | 3680 | 2.20 |       | 198  |       | 449 | 290 | 1.40 |
| LOW CR. KEYMODE | 3059 | 0.31 |       | 1731 |       | 341 | 175 | 0.30 |
| HI. CR. KEYMODE | 3461 | 1.22 |       | 2366 |       | 406 | 215 | 1.00 |
| 2500 RPM        |      |      |       |      |       |     | 65  | 0.80 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 309

1969 FORD TORI 351 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 074369 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 8.40 PARTS COST: 1.85

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0931

11/09/73 BAR:24.84 DB:71 WB:51  
REL.HUM:25.2% NOX COR: .838

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.36 | 75.3 | 521.3 | 4.95 | 13.43 |     |     |      |
| COLD STABILIZED | 5.03 | 82.5 | 499.6 | 3.71 | 13.80 |     |     |      |
| HOT TRANSIENT   | 3.99 | 37.7 | 462.0 | 5.19 | 16.68 |     |     |      |
| 1975 COMPOSITE  | 5.23 | 68.6 | 493.7 | 4.38 | 14.41 |     |     |      |
| IDLE KEYMODE    | 4617 | 7.13 |       | 85   |       | 517 | 440 | 6.40 |
| LOW CR. KEYMODE | 3358 | 0.44 |       | 2524 |       | 393 | 275 | 0.45 |
| HI. CR. KEYMODE | 3434 | 1.04 |       | 3184 |       | 397 | 275 | 1.00 |
| 2500 RPM        |      |      |       |      |       |     | 70  | 0.55 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0950

11/12/73 BAR:24.52 DB:71 WB:51  
REL.HUM:25.5% NOX COR: .841

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.76 | 147.8 | 480.2 | 2.72 | 11.98 |     |     |      |
| COLD STABILIZED | 5.45 | 108.5 | 484.1 | 3.27 | 13.26 |     |     |      |
| HOT TRANSIENT   | 5.25 | 86.4  | 474.5 | 3.94 | 14.20 |     |     |      |
| 1975 COMPOSITE  | 6.30 | 110.6 | 480.6 | 3.34 | 13.21 |     |     |      |
| IDLE KEYMODE    | 4604 | 6.14  |       | 75   |       | 423 | 270 | 5.10 |
| LOW CR. KEYMODE | 3146 | 0.26  |       | 2586 |       | 383 | 240 | 0.20 |
| HI. CR. KEYMODE | 3382 | 0.75  |       | 4001 |       | 421 | 260 | 2.20 |
| 2500 RPM        |      |       |       |      |       |     | 120 | 2.00 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 310

1972 FORD MAVE 302 3000LBS

HIGH ALTITUDE RETROFIT

8CYL 2BBL AUTOMATIC

008455 MILES

HAS: EMC, EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 7.20

PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0945

11/12/73 BAR:24.61 DB:78 WB:56

REL.HUM:26.0% NOX COR: .876

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.90 | 58.3 | 502.9 | 5.42 | 14.53 |     |     |      |
| COLD STABILIZED | 4.65 | 46.5 | 502.5 | 3.51 | 15.09 |     |     |      |
| HOT TRANSIENT   | 5.27 | 52.0 | 456.9 | 5.36 | 16.04 |     |     |      |
| 1975 COMPOSITE  | 5.08 | 50.5 | 489.9 | 4.42 | 15.22 |     |     |      |
| IDLE KEYMODE    | 2898 | 2.20 |       | 81   |       | 279 | 190 | 2.00 |
| LOW CR. KEYMODE | 3894 | 1.64 |       | 2006 |       | 541 | 400 | 1.70 |
| HI. CR. KEYMODE | 3891 | 1.57 |       | 3129 |       | 564 | 360 | 1.60 |
| 2500 RPM        |      |      |       |      |       |     | 230 | 2.20 |

DRIVEABILITY DEMERITS 5

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0934

11/09/73 BAR:24.83 DB:72 WB:51

REL.HUM:23.2% NOX COR: .833

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.43 | 86.2 | 534.3 | 3.58 | 12.91 |     |     |      |
| COLD STABILIZED | 3.88 | 41.7 | 554.7 | 1.84 | 14.08 |     |     |      |
| HOT TRANSIENT   | 5.01 | 41.1 | 459.9 | 3.60 | 16.48 |     |     |      |
| 1975 COMPOSITE  | 4.72 | 50.8 | 524.1 | 2.69 | 14.39 |     |     |      |
| IDLE KEYMODE    | 2734 | 1.60 |       | 132  |       | 325 | 225 | 1.40 |
| LOW CR. KEYMODE | 3507 | 1.59 |       | 1190 |       | 445 | 300 | 1.50 |
| HI. CR. KEYMODE | 3737 | 1.68 |       | 2500 |       | 490 | 325 | 1.60 |
| 2500 RPM        |      |      |       |      |       |     | 125 | 1.30 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 311

1972 FORD MAVE 250 2750LBS HIGH ALTITUDE RETROFIT  
6CYL 13BL AUTOMATIC 022036 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 4.80 PARTS COST: 0.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0944

11/12/73 BAR:24.61 DB:78 WB:53  
REL.HUM:18.4% NOX COR: .831

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.57 | 57.0 | 442.9 | 5.36 | 16.38 |     |     |      |
| COLD STABILIZED | 3.00 | 44.8 | 424.6 | 2.97 | 17.65 |     |     |      |
| HOT TRANSIENT   | 3.78 | 55.0 | 357.8 | 3.81 | 19.52 |     |     |      |
| 1975 COMPOSITE  | 3.33 | 50.2 | 409.9 | 3.70 | 17.84 |     |     |      |
| IDLE KEYMODE    | 2351 | 1.85 |       | 114  |       | 243 | 110 | 1.70 |
| LOW CR. KEYMODE | 3329 | 2.77 |       | 2108 |       | 465 | 310 | 2.50 |
| HI. CR. KEYMODE | 3242 | 2.47 |       | 2608 |       | 410 | 240 | 2.10 |
| 2500 RPM        |      |      |       |      |       |     | 220 | 3.50 |

DRIVEABILITY DEMERITS 17

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0951

11/13/73 BAR:24.50 DB:71 WB:51  
REL.HUM:25.5% NOX COR: .842

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.87 | 46.9 | 477.5 | 5.46 | 15.80 |     |     |      |
| COLD STABILIZED | 2.80 | 30.3 | 450.7 | 3.49 | 17.56 |     |     |      |
| HOT TRANSIENT   | 3.81 | 37.9 | 393.4 | 4.47 | 19.15 |     |     |      |
| 1975 COMPOSITE  | 3.30 | 35.9 | 440.4 | 4.17 | 17.56 |     |     |      |
| IDLE KEYMODE    | 2333 | 1.44 |       | 263  |       | 273 | 190 | 1.45 |
| LOW CR. KEYMODE | 3312 | 2.24 |       | 1542 |       | 456 | 295 | 2.00 |
| HI. CR. KEYMODE | 2691 | 1.96 |       | 2585 |       | 308 | 155 | 1.90 |
| 2500 RPM        |      |      |       |      |       |     | 160 | 2.80 |

DRIVEABILITY DEMERITS 16

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 312

1972 MERC COME 302 3000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 008589 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 8.40 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0943

11/12/73 BAR:24.60 DB:78 WB:53  
REL.HUM:18.4% NOX COR: .831

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.58 | 66.1 | 546.5 | 3.86 | 13.33 |     |     |      |
| COLD STABILIZED | 3.65 | 63.2 | 584.0 | 1.37 | 12.82 |     |     |      |
| HOT TRANSIENT   | 5.64 | 54.3 | 468.6 | 3.00 | 15.57 |     |     |      |
| 1975 COMPOSITE  | 4.61 | 61.3 | 544.1 | 2.34 | 13.60 |     |     |      |
| IDLE KEYMODE    | 3598 | 4.29 |       | 95   |       | 432 | 290 | 3.50 |
| LOW CR. KEYMODE | 3927 | 3.64 |       | 772  |       | 510 | 340 | 3.20 |
| HI. CR. KEYMODE | 4030 | 2.67 |       | 2290 |       | 550 | 370 | 2.40 |
| 2500 RPM        |      |      |       |      |       |     | 200 | 2.40 |

DRIVEABILITY DEMERITS 6

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0956

11/13/73 BAR:24.51 DB:73 WB:50  
REL.HUM:18.9% NOX COR: .818

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.52 | 140.3 | 541.3 | 3.21 | 11.38 |     |     |      |
| COLD STABILIZED | 3.64 | 87.9  | 623.2 | 1.30 | 11.52 |     |     |      |
| HOT TRANSIENT   | 6.13 | 92.7  | 505.3 | 2.92 | 13.28 |     |     |      |
| 1975 COMPOSITE  | 4.94 | 100.2 | 573.4 | 2.15 | 11.93 |     |     |      |
| IDLE KEYMODE    | 3768 | 5.64  |       | 81   |       | 440 | 280 | 4.90 |
| LOW CR. KEYMODE | 3662 | 3.33  |       | 950  |       | 434 | 295 | 2.80 |
| HI. CR. KEYMODE | 3925 | 2.99  |       | 1851 |       | 501 | 330 | 2.40 |
| 2500 RPM        |      |       |       |      |       |     | 180 | 3.10 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 314

1971 FORD BRON 302 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL 3 SPEED 020440 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 7.20 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0942

11/12/73 BAR:24.68 DB:82 WB:52  
REL.HUM:10.6% NOX COR: .797

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.93 | 88.4 | 500.3 | 3.19 | 13.41 |     |     |      |
| COLD STABILIZED | 8.95 | 76.3 | 535.1 | 1.62 | 13.03 |     |     |      |
| HOT TRANSIENT   | 7.56 | 76.6 | 435.4 | 2.68 | 15.36 |     |     |      |
| 1975 COMPOSITE  | 8.35 | 78.9 | 500.2 | 2.24 | 13.69 |     |     |      |
| IDLE KEYMODE    | 1709 | 2.00 |       | 81   |       | 170 | 120 | 2.00 |
| LOW CR. KEYMODE | 3292 | 2.25 |       | 740  |       | 370 | 235 | 2.10 |
| HI. CR. KEYMODE | 3648 | 2.85 |       | 1742 |       | 425 | 290 | 2.60 |
| 2500 RPM        |      |      |       |      |       |     | 200 | 2.40 |

DRIVEABILITY DEMERITS • 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0957

11/13/73 BAR:24.52 DB:77 WB:52  
REL.HUM:17.5% NOX COR: .823

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.57 | 106.3 | 504.1 | 2.58 | 12.75 |     |     |      |
| COLD STABILIZED | 5.46 | 75.3  | 552.8 | 1.25 | 12.94 |     |     |      |
| HOT TRANSIENT   | 8.17 | 95.1  | 425.5 | 2.04 | 14.82 |     |     |      |
| 1975 COMPOSITE  | 6.86 | 87.3  | 507.3 | 1.75 | 13.37 |     |     |      |
| IDLE KEYMODE    | 1419 | 0.54  |       | 91   |       | 177 | 165 | 0.35 |
| LOW CR. KEYMODE | 3626 | 2.97  |       | 1546 |       | 392 | 260 | 2.60 |
| HI. CR. KEYMODE | 3329 | 2.32  |       | 1711 |       | 366 | 225 | 1.80 |
| 2500 RPM        |      |       |       |      |       |     | 150 | 2.00 |

DRIVEABILITY DEMERITS 7

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393' \*\*\*

VEHICLE 315

1971 OLDS CUTL 350 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 4BBL AUTOMATIC 026169 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST:12.00 PARTS COST: 3.81

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0958

11/13/73 BAR:24.53 DB:74 WB:51  
REL.HUM:19.8% NOX COR: .825

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.48 | 89.0 | 575.4 | 4.32 | 12.10 |     |     |      |
| COLD STABILIZED | 3.48 | 41.9 | 571.7 | 2.94 | 13.73 |     |     |      |
| HOT TRANSIENT   | 3.37 | 36.4 | 504.0 | 4.66 | 15.57 |     |     |      |
| 1975 COMPOSITE  | 4.08 | 50.2 | 553.7 | 3.71 | 13.80 |     |     |      |
| IDLE KEYMODE    | 3523 | 4.83 |       | 74   |       | 405 | 310 | 4.30 |
| LOW CR. KEYMODE | 3328 | 1.46 |       | 1754 |       | 418 | 270 | 1.45 |
| HI. CR. KEYMODE | 3042 | 0.90 |       | 3018 |       | 363 | 205 | 0.80 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 2.30 |

DRIVEABILITY DEMERITS 6

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0975

11/14/73 BAR:24.43 DB:70 WB:51  
REL.HUM:27.7% NOX COR: .848

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.58 | 46.4 | 583.3 | 5.43 | 13.28 |     |     |      |
| COLD STABILIZED | 3.34 | 35.9 | 556.6 | 3.23 | 14.28 |     |     |      |
| HOT TRANSIENT   | 3.15 | 25.8 | 463.7 | 4.67 | 17.32 |     |     |      |
| 1975 COMPOSITE  | 3.55 | 35.3 | 536.4 | 4.09 | 14.77 |     |     |      |
| IDLE KEYMODE    | 3779 | 3.83 |       | 66   |       | 345 | 220 | 3.00 |
| LOW CR. KEYMODE | 2793 | 1.14 |       | 1302 |       | 336 | 200 | 0.90 |
| HI. CR. KEYMODE | 2751 | 0.78 |       | 2920 |       | 323 | 165 | 0.60 |
| 2500 RPM        |      |      |       |      |       |     | 100 | 1.50 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 316

1970 MERC MONT 302 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL 3 SPEED 027532 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 8.40 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0959

11/13/73 BAR:24.52 DB:75 WB:49  
REL.HUM:13.0% NOX COR: .795

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 7.45 | 93.6 | 469.0 | 3.41 | 13.92 |     |      |      |
| COLD STABILIZED | 5.33 | 38.0 | 541.2 | 3.88 | 14.41 |     |      |      |
| HOT TRANSIENT   | 5.75 | 47.5 | 419.5 | 4.61 | 17.38 |     |      |      |
| 1975 COMPOSITE  | 5.89 | 52.3 | 492.3 | 3.98 | 15.02 |     |      |      |
| IDLE KEYMODE    | 2239 | 1.18 |       | 109  |       | 207 | 130  | 1.00 |
| LOW CR. KEYMODE | 4396 | 1.53 |       | 2844 |       | 534 | 395  | 1.50 |
| HI. CR. KEYMODE | 4288 | 1.34 |       | 3483 |       | 549 | 400  | 1.20 |
| 2500 RPM        |      |      |       |      |       |     | 1200 | 1.70 |

DRIVEABILITY DEMERITS 17

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0973

11/14/73 BAR:24.49 DB:76 WB:53  
REL.HUM:21.8% NOX COR: .843

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 8.44 | 82.0 | 463.7 | 3.85 | 14.38 |     |      |      |
| COLD STABILIZED | 5.29 | 44.5 | 549.5 | 3.60 | 14.00 |     |      |      |
| HOT TRANSIENT   | 8.19 | 57.1 | 433.5 | 4.64 | 16.22 |     |      |      |
| 1975 COMPOSITE  | 6.76 | 55.9 | 499.4 | 3.94 | 14.64 |     |      |      |
| IDLE KEYMODE    | 1904 | 1.04 |       | 106  |       | 187 | 120  | 0.95 |
| LOW CR. KEYMODE | 4300 | 1.09 |       | 2309 |       | 563 | 410  | 1.05 |
| HI. CR. KEYMODE | 5375 | 1.38 |       | 3130 |       | 762 | 600  | 1.25 |
| 2500 RPM        |      |      |       |      |       |     | **** | 1.10 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 317

1971 FORD MAVE 200 2750LBS HIGH ALTITUDE RETROFIT  
6CYL 1BBL AUTOMATIC 023567 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 3.60 PARTS COST: 0.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0960

11/13/73 BAR:24.51 DB:74 WB:49  
REL.HUM:14.5% NOX COR: .800

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.55 | 99.2 | 401.4 | 3.58 | 15.41 |     |     |      |
| COLD STABILIZED | 5.82 | 91.2 | 405.8 | 2.32 | 15.69 |     |     |      |
| HOT TRANSIENT   | 4.64 | 52.7 | 366.2 | 3.99 | 19.20 |     |     |      |
| 1975 COMPOSITE  | 5.65 | 82.2 | 393.9 | 3.05 | 16.47 |     |     |      |
| IDLE KEYMODE    | 4946 | 3.68 |       | 89   |       | 570 | 500 | 2.60 |
| LOW CR. KEYMODE | 5407 | 5.35 |       | 666  |       | 761 | 620 | 5.00 |
| HI. CR. KEYMODE | 4201 | 1.41 |       | 2644 |       | 560 | 390 | 1.40 |
| 2500 RPM        |      |      |       |      |       |     | 320 | 2.00 |

DRIVEABILITY DEMERITS 9

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0976

11/14/73 BAR:24.44 DB:71 WB:47  
REL.HUM:14.0% NOX COR: .792

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.56 | 129.2 | 443.7 | 3.27 | 13.28 |     |     |      |
| COLD STABILIZED | 5.14 | 85.1  | 401.5 | 2.06 | 16.15 |     |     |      |
| HOT TRANSIENT   | 5.42 | 61.8  | 371.6 | 3.50 | 18.33 |     |     |      |
| 1975 COMPOSITE  | 5.72 | 87.9  | 402.0 | 2.71 | 15.96 |     |     |      |
| IDLE KEYMODE    | 3524 | 3.58  |       | 88   |       | 308 | 200 | 2.60 |
| LOW CR. KEYMODE | 5173 | 6.28  |       | 432  |       | 742 | 590 | 4.90 |
| HI. CR. KEYMODE | 4192 | 2.25  |       | 2247 |       | 560 | 500 | 2.00 |
| 2500 RPM        |      |       |       |      |       |     | 270 | 1.20 |

DRIVEABILITY DEMERITS 49

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 318

1971 FORD GALA 400 4000LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 040209 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 3.60 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0961

11/13/73 BAR:24.51 DB:76 WB:54  
REL.HUM:24.4% NOX COR: .857

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.67 | 93.7 | 732.4 | 5.96 | 9.96  |     |     |      |
| COLD STABILIZED | 3.74 | 64.5 | 647.3 | 3.96 | 11.71 |     |     |      |
| HOT TRANSIENT   | 4.33 | 46.6 | 602.7 | 5.78 | 12.91 |     |     |      |
| 1975 COMPOSITE  | 4.10 | 65.6 | 652.7 | 4.88 | 11.59 |     |     |      |
| IDLE KEYMODE    | 4208 | 5.19 |       | 67   |       | 393 | 250 | 4.10 |
| LOW CR. KEYMODE | 2431 | 1.23 |       | 1725 |       | 291 | 160 | 1.00 |
| HI. CR. KEYMODE | 1847 | 0.54 |       | 2622 |       | 234 | 95  | 0.50 |
| 2500 RPM        |      |      |       |      |       |     | 70  | 1.00 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0977

11/14/73 BAR:24.46 DB:71 WB:48  
REL.HUM:16.8% NOX COR: .804

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.59 | 224.4 | 602.4 | 2.65 | 9.10  |     |     |      |
| COLD STABILIZED | 3.70 | 54.3  | 621.0 | 3.49 | 12.40 |     |     |      |
| HOT TRANSIENT   | 3.99 | 47.0  | 554.7 | 4.94 | 13.89 |     |     |      |
| 1975 COMPOSITE  | 4.59 | 87.9  | 598.7 | 3.72 | 11.86 |     |     |      |
| IDLE KEYMODE    | 4148 | 3.19  |       | 53   |       | 466 | 320 | 2.50 |
| LOW CR. KEYMODE | 2529 | 1.26  |       | 1711 |       | 304 | 170 | 1.10 |
| HI. CR. KEYMODE | 1794 | 0.49  |       | 3014 |       | 230 | 290 | 0.45 |
| 2500 RPM        |      |       |       |      |       |     | 90  | 1.20 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 319

1971 FORD TORI 351 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 013444 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 4.80 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0962

11/13/73 BAR: 24.51 DB: 76 WB: 54  
REL. HUM: 24.4% NOX COR: .857

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.14 | 77.4 | 570.4 | 5.25 | 12.52 |     |     |      |
| COLD STABILIZED | 4.88 | 71.5 | 535.0 | 2.94 | 13.43 |     |     |      |
| HOT TRANSIENT   | 5.31 | 46.3 | 482.9 | 5.56 | 15.56 |     |     |      |
| 1975 COMPOSITE  | 5.26 | 65.8 | 528.0 | 4.15 | 13.75 |     |     |      |
| IDLE KEYMODE    | 3303 | 2.62 |       | 71   |       | 284 | 230 | 2.50 |
| LOW CR. KEYMODE | 3278 | 0.66 |       | 2458 |       | 402 | 290 | 0.60 |
| HI. CR. KEYMODE | 3242 | 0.97 |       | 3339 |       | 369 | 240 | 0.90 |
| 2500 RPM        |      |      |       |      |       |     | 150 | 0.90 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0979

11/14/73 BAR: 24.49 DB: 73 WB: 48  
REL. HUM: 13.5% NOX COR: .794

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.20 | 85.0 | 581.7 | 4.56 | 12.07 |     |     |      |
| COLD STABILIZED | 6.67 | 96.7 | 470.7 | 2.00 | 13.83 |     |     |      |
| HOT TRANSIENT   | 6.05 | 55.9 | 510.6 | 4.50 | 14.42 |     |     |      |
| 1975 COMPOSITE  | 6.61 | 82.9 | 505.0 | 3.23 | 13.57 |     |     |      |
| IDLE KEYMODE    | 3372 | 3.29 |       | 73   |       | 298 | 200 | 3.40 |
| LOW CR. KEYMODE | 3297 | 1.09 |       | 2173 |       | 391 | 260 | 0.90 |
| HI. CR. KEYMODE | 3179 | 1.11 |       | 2891 |       | 354 | 215 | 0.90 |
| 2500 RPM        |      |      |       |      |       |     | 150 | 0.85 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 320

1973 FORD MUST 351 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 003445 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 7.20 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0963

11/13/73 BAR:24.48 DB:76 WB:53  
REL.HUM:21.8% NOX COR: .843

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.23 | 128.3 | 578.8 | 1.97 | 11.09 |     |     |      |
| COLD STABILIZED | 5.07 | 136.5 | 532.4 | 1.23 | 11.67 |     |     |      |
| HOT TRANSIENT   | 5.03 | 88.7  | 464.5 | 2.03 | 14.37 |     |     |      |
| 1975 COMPOSITE  | 5.51 | 121.5 | 523.3 | 1.61 | 12.17 |     |     |      |
| IDLE KEYMODE    | 5383 | 6.29  |       | 53   |       | 416 | 320 | 5.20 |
| LOW CR. KEYMODE | 2917 | 2.66  |       | 824  |       | 363 | 270 | 2.60 |
| HI. CR. KEYMODE | 2666 | 2.28  |       | 1011 |       | 336 | 235 | 2.10 |
| 2500 RPM        |      |       |       |      |       |     | 160 | 2.60 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0985

11/15/73 BAR:24.76 DB:72 WB:49  
REL.HUM:17.6% NOX COR: .808

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.70 | 105.1 | 637.8 | 0.93 | 10.89 |     |     |      |
| COLD STABILIZED | 4.04 | 126.9 | 607.2 | 0.64 | 10.87 |     |     |      |
| HOT TRANSIENT   | 4.18 | 87.0  | 516.4 | 0.83 | 13.36 |     |     |      |
| 1975 COMPOSITE  | 4.22 | 111.3 | 588.4 | 0.75 | 11.47 |     |     |      |
| IDLE KEYMODE    | 3398 | 6.10  |       | 63   |       | 368 | 245 | 5.30 |
| LOW CR. KEYMODE | 2391 | 2.09  |       | 485  |       | 301 | 180 | 1.90 |
| HI. CR. KEYMODE | 2117 | 1.49  |       | 491  |       | 251 | 115 | 1.40 |
| 2500 RPM        |      |       |       |      |       |     | 90  | 2.55 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 321

1970 CHEV NOVA 250 3500LBS HIGH ALTITUDE RETROFIT  
6CYL 1BBL AUTOMATIC 012130 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 3.60 PARTS COST: 0.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0971

11/14/73 BAR:24.46 DB:72 WB:51  
REL.HUM:23.6% NOX COR: .836

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.62 | 68.6 | 506.4 | 4.21 | 14.16 |     |     |      |
| COLD STABILIZED | 2.91 | 12.1 | 522.7 | 3.08 | 16.17 |     |     |      |
| HOT TRANSIENT   | 2.87 | 15.1 | 445.1 | 4.60 | 18.63 |     |     |      |
| 1975 COMPOSITE  | 3.26 | 24.7 | 497.8 | 3.74 | 16.28 |     |     |      |
| IDLE KEYMODE    | 2946 | 0.55 |       | 157  |       | 342 | 275 | 0.45 |
| LOW CR. KEYMODE | 2986 | 0.93 |       | 1622 |       | 294 | 200 | 0.90 |
| HI. CR. KEYMODE | 2679 | 0.60 |       | 3038 |       | 265 | 155 | 0.60 |
| 2500 RPM        |      |      |       |      |       |     | 75  | 0.65 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0983

11/15/73 BAR:24.76 DB:74 WB:46  
REL.HUM: 6.6% NOX COR: .766

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.29 | 69.8 | 508.8 | 4.05 | 14.09 |     |     |      |
| COLD STABILIZED | 2.29 | 6.9  | 524.9 | 2.92 | 16.40 |     |     |      |
| HOT TRANSIENT   | 2.60 | 14.6 | 429.1 | 4.23 | 19.35 |     |     |      |
| 1975 COMPOSITE  | 2.80 | 22.2 | 494.9 | 3.52 | 16.53 |     |     |      |
| IDLE KEYMODE    | 2223 | 0.12 |       | 177  |       | 262 | 215 | 0.15 |
| LOW CR. KEYMODE | 2272 | 0.35 |       | 1989 |       | 240 | 155 | 0.40 |
| HI. CR. KEYMODE | 2106 | 0.25 |       | 3500 |       | 229 | 125 | 0.28 |
| 2500 RPM        |      |      |       |      |       |     | 45  | 0.35 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 322

1970 CHEV NOVA 307 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 032511 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 9.60 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0968

11/14/73 BAR:24.43 DB:74 WB:51  
REL.HUM:19.9% NOX COR: .826

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.59 | 86.9 | 432.2 | 3.84 | 15.11 |     |     |      |
| COLD STABILIZED | 5.52 | 45.7 | 465.6 | 3.70 | 16.05 |     |     |      |
| HOT TRANSIENT   | 4.80 | 45.6 | 387.1 | 4.50 | 18.79 |     |     |      |
| 1975 COMPOSITE  | 5.54 | 54.3 | 436.8 | 3.95 | 16.50 |     |     |      |
| IDLE KEYMODE    | 4647 | 3.64 |       | 140  |       | 594 | 455 | 2.90 |
| LOW CR. KEYMODE | 4146 | 1.07 |       | 2859 |       | 542 | 430 | 0.80 |
| HI. CR. KEYMODE | 3896 | 1.96 |       | 2465 |       | 464 | 340 | 1.75 |
| 2500 RPM        |      |      |       |      |       |     | 680 | 1.50 |

DRIVEABILITY DEMERITS 5

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0988

11/15/73 BAR:24.76 DB:76 WB:49  
REL.HUM:11.3% NOX COR: .789

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 7.23 | 89.7 | 396.6 | 2.56 | 15.89 |      |     |      |
| COLD STABILIZED | 4.69 | 43.4 | 447.2 | 2.33 | 16.79 |      |     |      |
| HOT TRANSIENT   | 4.82 | 47.2 | 361.9 | 2.96 | 19.73 |      |     |      |
| 1975 COMPOSITE  | 5.26 | 54.2 | 412.9 | 2.56 | 17.31 |      |     |      |
| IDLE KEYMODE    | 7433 | 4.53 |       | 53   |       | 1307 | 240 | 3.20 |
| LOW CR. KEYMODE | 4068 | 1.27 |       | 1601 |       | 544  | 385 | 1.20 |
| HI. CR. KEYMODE | 3776 | 2.77 |       | 1494 |       | 461  | 315 | 2.50 |
| 2500 RPM        |      |      |       |      |       |      | 520 | 1.80 |

DRIVEABILITY DEMERITS 7

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 323

1970 PONT TEMP 350 3500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 030849 MILES HAS: EMC, NO EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST:12.00 PARTS COST: 4.28

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO:C0972

11/14/73 BAR:24.48 DB:74 WB:52  
REL.HUM:22.6% NOX COR: .839

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.63 | 184.8 | 523.0 | 2.02 | 10.55 |     |     |      |
| COLD STABILIZED | 5.14 | 163.8 | 578.7 | 1.25 | 10.45 |     |     |      |
| HOT TRANSIENT   | 4.66 | 120.4 | 445.9 | 1.72 | 13.71 |     |     |      |
| 1975 COMPOSITE  | 5.95 | 156.2 | 530.2 | 1.54 | 11.21 |     |     |      |
| IDLE KEYMODE    | 4641 | 5.69  |       | 441  |       | 586 | 450 | 4.90 |
| LOW CR. KEYMODE | 4472 | 6.17  |       | 630  |       | 553 | 390 | 5.00 |
| HI. CR. KEYMODE | 3687 | 3.61  |       | 1512 |       | 422 | 285 | 3.10 |
| 2500 RPM        |      |       |       |      |       |     | 245 | 1.40 |

DRIVEABILITY DEMERITS 7

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO:C0986

11/15/73 BAR:24.76 DB:74 WB:49  
REL.HUM:14.3% NOX COR: .798

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.83 | 194.5 | 517.3 | 1.47 | 10.47 |     |     |      |
| COLD STABILIZED | 4.85 | 162.6 | 563.8 | 1.17 | 10.67 |     |     |      |
| HOT TRANSIENT   | 4.59 | 125.7 | 433.9 | 1.37 | 13.79 |     |     |      |
| 1975 COMPOSITE  | 5.61 | 159.0 | 518.0 | 1.29 | 11.34 |     |     |      |
| IDLE KEYMODE    | 3976 | 5.81  |       | 86   |       | 302 | 155 | 4.80 |
| LOW CR. KEYMODE | 3425 | 5.33  |       | 433  |       | 415 | 230 | 4.40 |
| HI. CR. KEYMODE | 3185 | 4.00  |       | 1156 |       | 356 | 180 | 3.30 |
| 2500 RPM        |      |       |       |      |       |     | 150 | 3.50 |

DRIVEABILITY DEMERITS 38

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 324

1973 CHEV NOVA 250 3500LBS HIGH ALTITUDE RETROFIT  
6CYL 13BL 3 SPEED 004682 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: G.M.

LABOR COST: 3.60 PARTS COST: 0.00

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0974

11/14/73 BAR: 24.45 DB: 76 WB: 52  
REL. HUM: 19.2% NOX COR: .829

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.26 | 84.6 | 479.7 | 2.15 | 14.01 |     |     |      |
| COLD STABILIZED | 2.46 | 41.8 | 540.7 | 1.32 | 14.50 |     |     |      |
| HOT TRANSIENT   | 3.54 | 67.8 | 419.9 | 2.37 | 16.57 |     |     |      |
| 1975 COMPOSITE  | 3.76 | 58.0 | 494.4 | 1.78 | 14.91 |     |     |      |
| IDLE KEYMODE    | 1283 | 1.42 |       | 62   |       | 159 | 85  | 1.03 |
| LOW CR. KEYMODE | 2143 | 0.81 |       | 733  |       | 247 | 125 | 0.70 |
| HI. CR. KEYMODE | 1530 | 1.22 |       | 1643 |       | 202 | 90  | 1.10 |
| 2500 RPM        |      |      |       |      |       |     | 50  | 0.40 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0984

11/15/73 BAR: 24.76 DB: 73 WB: 47  
REL. HUM: 10.5% NOX COR: .781

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.90 | 85.7 | 483.2 | 2.00 | 13.85 |     |     |      |
| COLD STABILIZED | 2.78 | 45.0 | 547.0 | 1.15 | 14.21 |     |     |      |
| HOT TRANSIENT   | 4.38 | 51.7 | 426.2 | 2.03 | 17.08 |     |     |      |
| 1975 COMPOSITE  | 4.30 | 55.4 | 500.1 | 1.57 | 14.83 |     |     |      |
| IDLE KEYMODE    | 863  | 1.90 |       | 43   |       | 127 | 50  | 1.50 |
| LOW CR. KEYMODE | 1924 | 1.04 |       | 695  |       | 254 | 135 | 0.70 |
| HI. CR. KEYMODE | 1155 | 1.38 |       | 1481 |       | 201 | 50  | 1.00 |
| 2500 RPM        |      |      |       |      |       |     | 30  | 0.35 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE 325

1973 FORD GALA 351 4500LBS HIGH ALTITUDE RETROFIT  
8CYL 2BBL AUTOMATIC 016385 MILES HAS: EMC, EVC, PCV

RETROFIT TYPE: FORD

LABOR COST: 7.20 PARTS COST: 2.78

\*\*\*\*\* WITH DEVICE \*\*\*\*\*

TEST NO: C0987

11/15/73 BAR: 24.76 DB: 72 WB: 49  
REL. HUM: 17.6% NOX COR: .808

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.44 | 176.4 | 559.1 | 1.58 | 10.36 |     |     |      |
| COLD STABILIZED | 5.64 | 123.0 | 566.0 | 1.73 | 11.46 |     |     |      |
| HOT TRANSIENT   | 6.44 | 112.3 | 486.3 | 1.84 | 13.04 |     |     |      |
| 1975 COMPOSITE  | 6.24 | 131.2 | 542.4 | 1.73 | 11.59 |     |     |      |
| IDLE KEYMODE    | 4284 | 5.58  |       | 61   |       | 377 | 270 | 4.90 |
| LOW CR. KEYMODE | 3649 | 2.17  |       | 1501 |       | 434 | 325 | 2.00 |
| HI. CR. KEYMODE | 3350 | 2.13  |       | 1329 |       | 396 | 270 | 1.90 |
| 2500 RPM        |      |       |       |      |       |     | 125 | 2.25 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* WITHOUT DEVICE \*\*\*\*\*

TEST NO: C0980

11/14/73 BAR: 24.51 DB: 70 WB: 47  
REL. HUM: 15.7% NOX COR: .797

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.24 | 138.7 | 528.8 | 2.22 | 11.57 |     |     |      |
| COLD STABILIZED | 5.21 | 123.5 | 528.5 | 1.47 | 12.05 |     |     |      |
| HOT TRANSIENT   | 6.39 | 99.9  | 476.4 | 1.57 | 13.62 |     |     |      |
| 1975 COMPOSITE  | 5.96 | 120.2 | 514.1 | 1.65 | 12.34 |     |     |      |
| IDLE KEYMODE    | 3728 | 5.03  |       | 66   |       | 328 | 220 | 4.10 |
| LOW CR. KEYMODE | 3310 | 1.97  |       | 1265 |       | 425 | 280 | 1.60 |
| HI. CR. KEYMODE | 3355 | 2.09  |       | 1024 |       | 425 | 260 | 1.60 |
| 2500 RPM        |      |       |       |      |       |     | 110 | 1.70 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011



## 8. DATA REDUCTION - MODIFIED TUNING SPECIFICATIONS

A detailed account of the data accumulation process is contained in volume II of this report. To facilitate discussion of data treatment after collection, the steps of the test sequence are listed in Table 3.

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. Collect vehicle information (make, model, CID, etc.)</li><li>2. Maintenance to manufacturers specifications</li><li>3. Exhaust emission test at 1st setting</li><li>4. Driveability evaluation at 1st setting</li><li>5. Exhaust emission test at 2nd setting</li><li>6. Driveability evaluation at 2nd setting</li><li>7. Exhaust emission test at 3rd setting</li><li>8. Driveability evaluation at 3rd setting</li><li>9. Exhaust emission test at 4th setting</li><li>10. Driveability evaluation at 4th setting</li><li>11. Exhaust emission test at 5th setting</li><li>12. Driveability evaluation at 5th setting</li><li>13. Exhaust emission test at 6th setting</li><li>14. Driveability evaluation at 6th setting</li><li>15. Exhaust emission test at 7th setting</li><li>16. Driveability evaluation at 7th setting</li><li>17. Exhaust emission test at manufacturers specified settings</li><li>18. Driveability evaluation at manufacturers specified settings</li></ol> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

TABLE 3. Data Collection Procedure

The vehicle information collected at steps 1. & 2. required no data reduction.

## 8.1 EMISSION TESTS

The emission tests actually consisted of three separate tests, the 1975 Federal mass emission test, a key mode (Clayton Mfg. Co.) test, and an idle test.

### 8.1.1 Federal Tests Procedure

These tests were performed according to procedures stipulated in the Federal Register, Volume 38, Number 124, Part III dated June 28, 1973. The data is accumulated through the constant volume sampler technique in which diluted samples of the exhaust are collected in a bag. Simultaneously, samples of background air are also bagged. The test is divided into three parts with the exhaust sample from each portion being collected in a separate bag. The first portion is designated the cold transient phase and lasts for the first 505 seconds of the driving schedule. The second is the cold stabilized phase and consists of the remaining 867 seconds of the driving schedule. The third portion is the hot transient phase and is a repeat of the cold transient phase. The data thus collected is then reduced to mass emissions using the equations shown in Appendix 1. The mass emission of the exhaust can then be used to calculate fuel consumption with the equation developed in Appendix 2.

### 8.1.2 Key Mode Test Procedure

Immediately following each mass emission test, a key mode test was performed using procedures outlined by Clayton Manufacturing Company of El Monte, California. The key mode test consists of measuring exhaust concentrations during idle, a loaded low cruise steady state mode, and

a loaded high cruise steady state mode. The concentration of each emittant is corrected as specified in CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES FOR 1972-MODEL GASOLINE-POWERED MOTOR VEHICLES UNDER 6001 POUNDS GROSS VEHICLE WEIGHT, as amended on February 17, 1971, which specifies that exhaust gas concentrations shall be adjusted to a dry exhaust volume containing 14.5 mole percent carbon atoms by applying the following dilution factor.

$$14.5/(\%CO_2 + (0.5)\% CO + (1.8 \times 6)\% HC)$$

This correction factor was not applied to the readings taken with garage type instruments.

#### 8.1.3 Idle Test Procedure

The idle test procedure is specified to be an exhaust concentration measurements of hydrocarbons and carbon monoxide at curb idle and at 2500 engine RPM (transmission in neutral). These measurements were taken with the garage type instrument. The curb idle portion of this test was taken simultaneous with the idle portion of the key mode.

#### 8.2 DRIVEABILITY EVALUATIONS

The driveability evaluation was performed to ascertain the performance of the vehicle from the standpoint of desireable and undesireable driveability characteristics. The characteristics examined in the course of the evaluation include stalling, hesitation, backfires, acceleration, idle quality, etc. The evaluation is performed using guidelines specified by the State of California AIR Resources Board Driveability procedure of 03/30/72. (See Appendix 7 of Volume I). The results required no data reduction and were used as reported.

## 9. MODIFIED TUNING SPECIFICATIONS

The data presented on the following pages is divided into several sections which depend on the type of test performed or the type of information collected. The quantity of data necessitates presenting the results of one vehicle on four successive pages.

### 9.1 HEADING

The heading contains a physical description of the vehicle.

The first line identifies the vehicle by an assigned number.

The second line identifies the following items:

1. Vehicle model year
2. Vehicle make
3. Vehicle model
4. Engine displacement in cubic inches
5. The inertia weight used during vehicle testing
6. Identifies the testing as the modified tune-up sequence

The third line identifies these items:

1. Number of cylinders
2. Number of carburetor venturis
3. Transmission type
4. Number of miles the vehicle has been driven
5. Whether or not the vehicle has an emission control system, an evaporative control system, or PCV valve

The fourth line identifies, as RUN NUMBER, which of the 25 different test sequences was performed on the vehicle.

### 9.2 SETTING 1

The vehicle first underwent a tune-up during which all adjustments were set to manufacturers specifications and defective parts (air cleaner, spark plugs, etc.) were replaced. The first of the eight experimental settings was then effected on the vehicle, and the initial emission test performed. The first line identifies the four items of interest and

specifies their setting as being either experimental or as specified by the manufacturer.

- A/F - Idle air/fuel mixture. Experimental is set leaner than specified, expressed in terms of drop in idle speed of 200 RPM.
- RPM - Idle engine speed. Experimental is set higher than specified, by initially setting as recommended then placing transmission in neutral and adjusting to achieve an additional 200 RPM.
- TIMING - Basic ignition timing. Experimental is advanced from specification by 8 degrees.
- CHOKE - Vacuum choke kick. Experimental is set leaner than specification at 1.5 x pull-off specified by manufacturer.

The data from these tests are presented in this section. The first items are the test number, the date the test was conducted, and the ambient conditions at the time the test was performed. The ambient conditions are:

BAR: barometric pressure in inches of mercury.

DB: dry bulb temperature in degrees Fahrenheit.

WB: wet bulb temperature in degrees Fahrenheit.

REL. HUM: relative humidity in percent.

NOX COR: Humidity correction factor applied to the oxides of nitrogen mass emissions.

#### 9.2.1 Federal Test Procedure

The first four lines of data are the results of the Federal Test Procedure. These results are reported as follows:

- HC - Unburned hydrocarbons emitted during the test phase in grams per mile.
- CO - Carbon monoxide emitted during the test phase in grams per mile.

CO<sub>2</sub> - Carbon dioxide emitted during the test phase in grams per mile.

NO<sub>x</sub> - Oxides of nitrogen emitted during the test phase in grams per mile nitrogen dioxide.

MPG - Fuel consumption in miles per gallon for the test phase.

#### 9.2.2 Key Mode Test Procedure

The next three lines are data obtained during the key mode test.

These results are presented as follows:

HC - Concentration of unburned hydrocarbons in exhaust, reported in P.P.M. carbon.

CO - Concentration of carbon monoxide in exhaust, in mole percent.

NO<sub>x</sub> - Oxides of nitrogen in exhaust in P.P.M.

LHC\* - Concentration of unburned hydrocarbons in exhaust, in P.P.M. hexane.

SHC\* - Concentration of unburned hydrocarbons in exhaust, in P.P.M. hexane as measured with the garage type instrument.

SCO\* - Concentration of carbon monoxide in exhaust, reported in mole percent as measured with garage type instrument.

\* - LHC has a full scale value of 1600 P.P.M., SHC has a full scale value of 2000 P.P.M. and SCO has a full scale value of 10%. Off scale readings are reported as asterisks (\*\*\*\*).

#### 9.2.3 Idle Test Procedure

Following the keymode test, the unburned hydrocarbons and carbon monoxide concentrations in the exhaust were measured with the engine operating at 2500 RPM and the transmission in neutral. The readings were taken with the garage type equipment and are reported on the last line as described in section 9.2.2.

#### 9.2.4 Driveability Evaluation

The last line of the "SETTING 1" test is the number of demerits resulting from the driveability evaluation.

### 9.3 SETTING 2

Following the testing sequence at "SETTING 1", the vehicle was adjusted to the second setting. A second emission test and driveability evaluation was then performed. These tests followed the format of testing conducted at the first setting. Data are presented as described in 9.2.

### 9.4 SETTING 3-8

Adjustments were made to the vehicle in different combinations until all eight of the specified test settings were performed. Data are presented for the vehicle on the following three pages (results of two tests per page) in the manner described in sections 9.2 and 9.3.



## 10. LISTING OF DATA

### MODIFIED TUNING SPECIFICATIONS

\*\*\* COLORADO-393 \*\*\*

VEHICLE 039

1968 PONT VENT 428 4500LBS TUNE UP EVALUATION  
8CYL 4BBL AUTOMATIC 069716 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 1

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0104

08/22/73 BAR:24.80 DB:76 WB:59  
REL.HUM:38.4% NOX COR: .941

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.54 | 88.5 | 542.2 | 3.44 | 12.80 |     |     |      |
| COLD STABILIZED | 4.67 | 97.0 | 556.2 | 2.16 | 12.31 |     |     |      |
| HOT TRANSIENT   | 4.20 | 80.4 | 495.1 | 3.57 | 14.03 |     |     |      |
| 1975 COMPOSITE  | 4.51 | 90.6 | 536.3 | 2.82 | 12.85 |     |     |      |
| IDLE KEYMODE    | 3915 | 0.16 |       | 106  |       | 436 | 450 | 0.20 |
| LOW CR. KEYMODE | 3270 | 1.85 |       | 1628 |       | 351 | 290 | 1.80 |
| HI. CR. KEYMODE | 3170 | 2.82 |       | 1483 |       | 309 | 250 | 2.80 |
| 2500 RPM        |      |      |       |      |       |     | 145 | 1.50 |

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\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0117

08/23/73 BAR:24.81 DB:76 WB:59  
REL.HUM:38.4% NOX COR: .941

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.00 | 99.3  | 571.0 | 3.72 | 11.99 |     |     |      |
| COLD STABILIZED | 5.32 | 147.4 | 551.5 | 1.89 | 11.13 |     |     |      |
| HOT TRANSIENT   | 4.39 | 98.8  | 469.3 | 3.26 | 13.95 |     |     |      |
| 1975 COMPOSITE  | 4.99 | 123.8 | 532.7 | 2.65 | 11.99 |     |     |      |
| IDLE KEYMODE    | 3716 | 5.21  |       | 116  |       | 484 | 460 | 4.90 |
| LOW CR. KEYMODE | 3248 | 1.98  |       | 1570 |       | 436 | 360 | 2.00 |
| HI. CR. KEYMODE | 3172 | 3.72  |       | 1205 |       | 383 | 315 | 3.50 |
| 2500 RPM        |      |       |       |      |       |     | 240 | 2.70 |

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AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 039

1968 PONT VENT 428 4500LBS TUNE UP EVALUATION  
8CYL 4BBL AUTOMATIC 069716 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 1

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0128

08/24/73 BAR:24.71 DB:75 WB:58  
REL.HUM:37.8% NOX COR: .930

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.20 | 108.4 | 591.7 | 4.52 | 11.44 |     |     |      |
| COLD STABILIZED | 5.73 | 140.5 | 573.0 | 2.45 | 10.97 |     |     |      |
| HOT TRANSIENT   | 4.84 | 103.5 | 513.0 | 4.26 | 12.89 |     |     |      |
| 1975 COMPOSITE  | 5.37 | 123.5 | 560.3 | 3.38 | 11.55 |     |     |      |
| IDLE KEYMODE    | 3709 | 5.61  |       | 138  |       | 547 | 335 | 5.20 |
| LOW CR. KEYMODE | 3178 | 2.11  |       | 1709 |       | 463 | 285 | 2.10 |
| HI. CR. KEYMODE | 3072 | 3.17  |       | 1507 |       | 407 | 235 | 3.00 |
| 2500 RPM        |      |       |       |      |       |     | 165 | 2.40 |

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\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0140

08/27/73 BAR:24.74 DB:75 WB:56  
REL.HUM:31.8% NOX COR: .893

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.81 | 90.3  | 589.1 | 3.21 | 11.93 |     |     |      |
| COLD STABILIZED | 4.95 | 133.8 | 543.0 | 1.65 | 11.58 |     |     |      |
| HOT TRANSIENT   | 3.74 | 77.2  | 496.7 | 3.18 | 14.14 |     |     |      |
| 1975 COMPOSITE  | 4.58 | 109.0 | 539.8 | 2.40 | 12.28 |     |     |      |
| IDLE KEYMODE    | 3716 | 4.31  |       | 110  |       | 430 | 345 | 4.00 |
| LOW CR. KEYMODE | 3245 | 1.56  |       | 1181 |       | 410 | 305 | 1.55 |
| HI. CR. KEYMODE | 3121 | 2.87  |       | 1096 |       | 363 | 260 | 2.70 |
| 2500 RPM        |      |       |       |      |       |     | 175 | 1.85 |

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AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 039

1968 PONT VENT 428 4500LBS TUNE UP EVALUATION  
8CYL 4BBL AUTOMATIC 069716 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 1

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0154

08/28/73 BAR:24.76 DB:73 WB:56  
REL.HUM:36.2% NOX COR: .905

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 7.52 | 64.7  | 585.8 | 5.71 | 12.52 |     |      |      |
| COLD STABILIZED | 9.04 | 122.3 | 522.5 | 3.78 | 11.98 |     |      |      |
| HOT TRANSIENT   | 6.71 | 68.1  | 510.2 | 5.55 | 13.95 |     |      |      |
| 1975 COMPOSITE  | 8.07 | 95.2  | 532.3 | 4.67 | 12.59 |     |      |      |
| IDLE KEYMODE    | 9039 | 10.46 |       | 29   |       | 816 | 920  | 9.80 |
| LOW CR. KEYMODE | 3510 | 0.60  |       | 1384 |       | 578 | 385  | 0.60 |
| HI. CR. KEYMODE | 3106 | 1.72  |       | 1138 |       | 493 | 310  | 1.25 |
| 2500 RPM        |      |       |       |      |       |     | 1500 | 0.43 |

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\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0168

08/29/73 BAR:24.77 DB:74 WB:59  
REL.HUM:43.3% NOX COR: .956

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 25.75 | 84.1  | 590.9 | 5.36 | 11.07 |      |      |      |
| COLD STABILIZED | 14.93 | 110.5 | 553.1 | 3.86 | 11.51 |      |      |      |
| HOT TRANSIENT   | 18.25 | 72.3  | 508.2 | 4.99 | 13.09 |      |      |      |
| 1975 COMPOSITE  | 18.11 | 94.5  | 548.5 | 4.49 | 11.81 |      |      |      |
| IDLE KEYMODE    | 5784  | 8.43  |       | 39   |       | 792  | 360  | 7.90 |
| LOW CR. KEYMODE | 6527  | 1.11  |       | 1159 |       | 1080 | 680  | 3.20 |
| HI. CR. KEYMODE | 3730  | 2.01  |       | 792  |       | 612  | 180  | 1.65 |
| 2500 RPM        |       |       |       |      |       |      | **** | 0.15 |

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AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 039

1968 PONT VENT 428 4500LBS

TUNE UP EVALUATION

8CYL 4BBL AUTOMATIC

069716 MILES

HAS: EMC, NO EVC, PCV

RUN NUMBER 1

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0184

08/30/73 BAR:24.67 DB:78 WB:57  
REL.HUM:28.6% NOX COR: .892

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 25.70 | 86.5  | 577.6 | 5.14 | 11.20 |      |      |      |
| COLD STABILIZED | 13.02 | 118.5 | 533.3 | 2.95 | 11.71 |      |      |      |
| HOT TRANSIENT   | 20.67 | 69.6  | 462.2 | 5.25 | 13.98 |      |      |      |
| 1975 COMPOSITE  | 17.79 | 98.2  | 522.9 | 4.05 | 12.14 |      |      |      |
| IDLE KEYMODE    | 6554  | 7.76  |       | 47   |       | 836  | 540  | 7.20 |
| LOW CR. KEYMODE | 40066 | 0.11  |       | 1868 |       | **** | **** | 0.10 |
| HI. CR. KEYMODE | 27359 | 0.70  |       | 2089 |       | **** | **** | 0.60 |
| 2500 RPM        |       |       |       |      |       |      | **** | 0.25 |

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\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0199

08/31/73 BAR:24.53 DB:73 WB:57  
REL.HUM:39.5% NOX COR: .926

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 13.90 | 97.9  | 628.1 | 2.62 | 10.78 |     |      |      |
| COLD STABILIZED | 8.57  | 114.0 | 565.8 | 2.17 | 11.53 |     |      |      |
| HOT TRANSIENT   | 9.80  | 76.9  | 507.4 | 2.60 | 13.51 |     |      |      |
| 1975 COMPOSITE  | 10.03 | 100.3 | 562.7 | 2.38 | 11.84 |     |      |      |
| IDLE KEYMODE    | 5596  | 7.76  |       | 50   |       | 781 | 400  | 6.90 |
| LOW CR. KEYMODE | 2961  | 1.63  |       | 794  |       | 629 | 200  | 1.40 |
| HI. CR. KEYMODE | 2037  | 2.35  |       | 694  |       | 514 | 430  | 1.90 |
| 2500 RPM        |       |       |       |      |       |     | **** | 0.20 |

DRIVEABILITY DEMERITS 52

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 057

1971 VOLK SEDA 97 2000LBS

TUNE UP EVALUATION

4CYL 1BBL

4 SPEED

034981 MILES

HAS: EMC, NO EVC, PCV

RUN NUMBER 2

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO: C0130

08/24/73 BAR:24.70 DB:75 WB:59  
REL.HUM:40.8% NOX COR: .950

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.99 | 78.2 | 255.7 | 1.67 | 22.59 |     |     |      |
| COLD STABILIZED | 4.01 | 93.0 | 285.6 | 0.78 | 20.04 |     |     |      |
| HOT TRANSIENT   | 3.82 | 79.3 | 222.4 | 1.11 | 24.80 |     |     |      |
| 1975 COMPOSITE  | 4.16 | 86.1 | 261.8 | 1.06 | 21.71 |     |     |      |
| IDLE KEYMODE    | 2676 | 2.83 |       | 104  |       | 383 | 480 | 2.60 |
| LOW CR. KEYMODE | 3680 | 4.86 |       | 549  |       | 470 | 960 | 4.60 |
| HI. CR. KEYMODE | 3658 | 5.14 |       | 1365 |       | 466 | 210 | 4.90 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 2.40 |

DRIVEABILITY DEMERITS 14

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO: C0141

08/27/73 BAR:24.74 DB:75 WB:56  
REL.HUM:31.8% NOX COR: .893

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.75 | 75.0 | 263.5 | 1.61 | 22.47 |     |     |      |
| COLD STABILIZED | 3.77 | 89.0 | 286.0 | 0.72 | 20.34 |     |     |      |
| HOT TRANSIENT   | 3.87 | 77.7 | 226.4 | 1.15 | 24.69 |     |     |      |
| 1975 COMPOSITE  | 4.00 | 82.9 | 264.8 | 1.02 | 21.85 |     |     |      |
| IDLE KEYMODE    | 2774 | 2.14 |       | 82   |       | 347 | 160 | 2.40 |
| LOW CR. KEYMODE | 3814 | 4.79 |       | 433  |       | 479 | 370 | 4.70 |
| HI. CR. KEYMODE | 3261 | 2.85 |       | 1283 |       | 410 | 280 | 3.00 |
| 2500 RPM        |      |      |       |      |       |     | 130 | 2.60 |

DRIVEABILITY DEMERITS 17

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 057

1971 VOLK SEDA 97 2000LBS TUNE UP EVALUATION  
4CYL 1BBL 4 SPEED 034981 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 2

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0155

08/29/73 BAR:24.76 DB:73 WB:56  
REL.HUM:36.2% NOX COR: .905

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.32 | 76.3 | 282.2 | 1.78 | 21.10 |     |     |      |
| COLD STABILIZED | 3.91 | 67.7 | 293.3 | 1.01 | 21.61 |     |     |      |
| HOT TRANSIENT   | 3.21 | 62.9 | 253.8 | 1.51 | 24.55 |     |     |      |
| 1975 COMPOSITE  | 4.22 | 68.1 | 280.0 | 1.31 | 22.24 |     |     |      |
| IDLE KEYMODE    | 3317 | 2.98 |       | 61   |       | 342 | 300 | 2.50 |
| LOW CR. KEYMODE | 3597 | 3.46 |       | 566  |       | 447 | 385 | 3.40 |
| HI. CR. KEYMODE | 3221 | 2.55 |       | 1120 |       | 409 | 290 | 2.60 |
| 2500 RPM        |      |      |       |      |       |     | 150 | 1.80 |

DRIVEABILITY DEMERITS 13

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0169

08/29/73 BAR:24.77 DB:74 WB:59  
REL.HUM:43.3% NOX COR: .956

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.24 | 67.5 | 264.0 | 1.67 | 23.22 |     |     |      |
| COLD STABILIZED | 3.62 | 78.4 | 304.7 | 0.82 | 20.27 |     |     |      |
| HOT TRANSIENT   | 3.24 | 62.9 | 239.0 | 1.30 | 25.59 |     |     |      |
| 1975 COMPOSITE  | 3.64 | 71.8 | 278.0 | 1.13 | 22.14 |     |     |      |
| IDLE KEYMODE    | 2820 | 2.82 |       | 79   |       | 408 | 110 | 2.60 |
| LCW CR. KEYMODE | 3657 | 3.81 |       | 509  |       | 507 | 240 | 3.60 |
| HI. CR. KEYMODE | 3187 | 2.65 |       | 1201 |       | 442 | 185 | 2.60 |
| 2500 RPM        |      |      |       |      |       |     | 95  | 1.90 |

DRIVEABILITY DEMERITS 24

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 057

1971 VOLK SEDA 97 2000LBS TUNE UP EVALUATION  
4CYL 1BBL 4 SPEED 034981 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 2

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0185

08/30/73 BAR:24.68 DB:82 WB:60  
REL.HUM:29.1% NOX COR: .923

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.27 | 72.0 | 254.7 | 1.76 | 23.36 |     |     |      |
| COLD STABILIZED | 3.63 | 79.3 | 290.4 | 1.04 | 20.88 |     |     |      |
| HOT TRANSIENT   | 3.48 | 71.2 | 236.0 | 1.39 | 24.81 |     |     |      |
| 1975 COMPOSITE  | 3.72 | 75.5 | 267.8 | 1.28 | 22.37 |     |     |      |
| IDLE KEYMODE    | 3053 | 2.04 |       | 97   |       | 435 | 120 | 1.90 |
| LOW CR. KEYMODE | 4355 | 4.48 |       | 649  |       | 626 | 300 | 3.80 |
| HI. CR. KEYMODE | 3752 | 2.80 |       | 1745 |       | 533 | 210 | 2.60 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 2.00 |

DRIVEABILITY DEMERITS 12

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0194

08/31/73 BAR:24.49 DB:73 WB:56  
REL.HUM:36.4% NOX COR: .908

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.87 | 68.5 | 285.3 | 2.07 | 21.81 |     |     |      |
| COLD STABILIZED | 3.50 | 66.2 | 306.9 | 1.05 | 21.10 |     |     |      |
| HOT TRANSIENT   | 4.18 | 66.2 | 254.3 | 1.39 | 23.97 |     |     |      |
| 1975 COMPOSITE  | 3.97 | 66.7 | 287.8 | 1.36 | 21.99 |     |     |      |
| IDLE KEYMODE    | 2015 | 1.02 |       | 104  |       | 505 | 70  | 0.60 |
| LOW CR. KEYMODE | 3790 | 3.88 |       | 751  |       | 627 | 125 | 2.40 |
| HI. CR. KEYMODE | 3264 | 2.75 |       | 1406 |       | 552 | 100 | 1.65 |
| 2500 RPM        |      |      |       |      |       |     | 60  | 1.30 |

DRIVEABILITY DEMERITS 9

AUTOMOTIVE TESTING LABORATORIES, INC..  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 057

1971 VOLK SEDA 97 2000LBS TUNE UP EVALUATION  
4CYL 1BBL 4 SPEED 034981 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER . 2

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0213

09/04/73 BAR:24.89 DB:79 WB:56  
REL.HUM:24.0% NOX COR: .867

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.80 | 69.6 | 262.0 | 1.72 | 23.04 |     |     |      |
| COLD STABILIZED | 3.44 | 70.6 | 292.7 | 0.91 | 21.48 |     |     |      |
| HOT TRANSIENT   | 3.09 | 63.9 | 235.1 | 1.34 | 25.79 |     |     |      |
| 1975 COMPOSITE  | 3.63 | 68.5 | 270.3 | 1.20 | 22.87 |     |     |      |
| IDLE KEYMODE    | 3209 | 1.05 |       | 140  |       | 363 | 120 | 1.10 |
| LOW CR. KEYMODE | 4222 | 4.17 |       | 624  |       | 489 | 215 | 4.10 |
| HI. CR. KEYMODE | 3850 | 2.52 |       | 2156 |       | 458 | 180 | 2.60 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 1.85 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0228

09/05/73 BAR:24.86 DB:76 WB:56  
REL.HUM:29.6% NOX COR: .885

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.29 | 66.4 | 253.9 | 2.00 | 23.96 |     |     |      |
| COLD STABILIZED | 3.44 | 64.5 | 277.4 | 1.07 | 22.85 |     |     |      |
| HOT TRANSIENT   | 3.45 | 62.8 | 228.2 | 1.47 | 26.36 |     |     |      |
| 1975 COMPOSITE  | 3.62 | 64.4 | 258.8 | 1.37 | 23.98 |     |     |      |
| IDLE KEYMODE    | 2467 | 1.33 |       | 95   |       | 234 | 180 | 1.30 |
| LOW CR. KEYMODE | 3678 | 4.16 |       | 994  |       | 400 | 240 | 4.10 |
| HI. CR. KEYMODE | 3383 | 3.93 |       | 1694 |       | 359 | 205 | 3.80 |
| 2500 RPM        |      |      |       |      |       |     | 85  | 1.80 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 059

1965 CHEV STAW 327 4000LBS TUNE UP EVALUATION  
8CYL 4BBL AUTOMATIC 079730 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 3

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0129

08/24/73 BAR:24.71 DB:76 WB:60  
REL.HUM:41.5% NOX COR: .964

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 11.32 | 159.8 | 439.6 | 2.84 | 12.26 |      |     |      |
| COLD STABILIZED | 15.49 | 229.0 | 380.0 | 0.99 | 11.29 |      |     |      |
| HOT TRANSIENT   | 7.86  | 123.6 | 385.9 | 2.94 | 14.72 |      |     |      |
| 1975 COMPOSITE  | 12.50 | 185.3 | 394.1 | 1.92 | 12.29 |      |     |      |
| IDLE KEYMODE    | 10953 | 9.48  |       | 24   |       | 1206 | 860 | 9.40 |
| LOW CR. KEYMODE | 4280  | 4.20  |       | 897  |       | 745  | 440 | 4.10 |
| HI. CR. KEYMODE | 3848  | 3.77  |       | 1165 |       | 636  | 320 | 3.80 |
| 2500 RPM        |       |       |       |      |       |      | 460 | 5.00 |

DRIVEABILITY DEMERITS 59

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0142

08/27/73 BAR:24.72 DB:78 WB:58  
REL.HUM:31.3% NOX COR: .910

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO   |
|-----------------|-------|-------|-------|------|-------|------|------|-------|
| COLD TRANSIENT  | 10.03 | 209.7 | 449.5 | 1.63 | 10.98 |      |      |       |
| COLD STABILIZED | 7.67  | 178.7 | 450.1 | 1.18 | 11.79 |      |      |       |
| HOT TRANSIENT   | 5.93  | 137.6 | 395.6 | 2.05 | 14.12 |      |      |       |
| 1975 COMPOSITE  | 7.68  | 173.8 | 434.9 | 1.51 | 12.17 |      |      |       |
| IDLE KEYMODE    | 8344  | 10.15 |       | 33   |       | 981  | 1200 | 10.00 |
| LOW CR. KEYMODE | 11449 | 7.67  |       | 200  |       | 1289 | **** | 8.20  |
| HI. CR. KEYMODE | 6742  | 8.54  |       | 229  |       | 913  | 700  | 8.60  |
| 2500 RPM        |       |       |       |      |       |      | 900  | 9.80  |

DRIVEABILITY DEMERITS 64

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 059

1965 CHEV STAW 327 4000LBS

TUNE UP EVALUATION

8CYL 4BBL AUTOMATIC

079730 MILES

HAS: NO EMC, NO EVC, PCV

RUN NUMBER 3

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0157

08/28/73 BAR:24.77 DB:73 WB:58  
REL.HUM:42.6% NOX COR: .942

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.83 | 187.0 | 463.4 | 1.62 | 11.30 |     |     |      |
| COLD STABILIZED | 8.45 | 179.4 | 427.8 | 0.97 | 12.09 |     |     |      |
| HOT TRANSIENT   | 7.38 | 128.2 | 398.2 | 1.93 | 14.29 |     |     |      |
| 1975 COMPOSITE  | 8.44 | 166.8 | 427.1 | 1.37 | 12.44 |     |     |      |
| IDLE KEYMODE    | 7596 | 7.26  |       | 30   |       | 837 | 740 | 6.90 |
| LOW CR. KEYMODE | 4422 | 4.65  |       | 381  |       | 664 | 420 | 4.50 |
| HI. CR. KEYMODE | 4521 | 7.73  |       | 196  |       | 650 | 410 | 7.60 |
| 2500 RPM        |      |       |       |      |       |     | 520 | 7.10 |

DRIVEABILITY DEMERITS 84

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0170

08/29/73 BAR:24.77 DB:75 WB:60  
REL.HUM:43.9% NOX COR: .970

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|------|-------|
| COLD TRANSIENT  | 16.36 | 214.0 | 449.7 | 1.31 | 10.63 |     |      |       |
| COLD STABILIZED | 8.35  | 164.7 | 437.5 | 1.09 | 12.32 |     |      |       |
| HOT TRANSIENT   | 7.41  | 151.8 | 391.7 | 1.58 | 13.62 |     |      |       |
| 1975 COMPOSITE  | 9.77  | 171.5 | 427.4 | 1.27 | 12.24 |     |      |       |
| IDLE KEYMODE    | 10528 | 7.71  |       | 31   |       | 832 | 620  | 7.80  |
| LOW CR. KEYMODE | 4181  | 4.71  |       | 502  |       | 632 | 360  | 4.40  |
| HI. CR. KEYMODE | 4164  | 6.37  |       | 379  |       | 583 | 310  | 6.20  |
| 2500 RPM        |       |       |       |      |       |     | 1550 | ***** |

DRIVEABILITY DEMERITS 61

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 059

1965 CHEV STAW 327 4000LBS

TUNE UP EVALUATION

8CYL 4BBL AUTOMATIC 079730 MILES

HAS: NO EMC, NO EVC, PCV

RUN NUMBER 3

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0186

08/30/73 BAR:24.67 DB:78 WB:57  
REL.HUM:28.6% NOX COR: .892

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO   |
|-----------------|-------|-------|-------|------|-------|------|------|-------|
| COLD TRANSIENT  | 9.58  | 149.4 | 472.9 | 2.59 | 12.07 |      |      |       |
| COLD STABILIZED | 9.74  | 159.9 | 426.0 | 1.57 | 12.58 |      |      |       |
| HOT TRANSIENT   | 7.76  | 137.6 | 386.0 | 2.07 | 14.21 |      |      |       |
| 1975 COMPOSITE  | 9.16  | 151.5 | 424.7 | 1.93 | 12.88 |      |      |       |
| IDLE KEYMODE    | 41510 | 10.94 |       | 10   |       | 1060 | 1040 | ***** |
| LOW CR. KEYMODE | 5104  | 6.12  |       | 410  |       | 761  | 470  | 5.80  |
| HI. CR. KEYMODE | 4824  | 7.29  |       | 350  |       | 687  | 395  | 7.00  |
| 2500 RPM        |       |       |       |      |       |      | 640  | 8.80  |

DRIVEABILITY DEMERITS 30

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0195

08/31/73 BAR:24.49 DB:74 WB:57  
REL.HUM:37.2% NOX COR: .920

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 10.84 | 211.8 | 460.6 | 1.56 | 10.76 |      |     |      |
| COLD STABILIZED | 8.67  | 164.0 | 454.3 | 1.38 | 12.04 |      |     |      |
| HOT TRANSIENT   | 7.04  | 152.9 | 421.6 | 2.27 | 13.02 |      |     |      |
| 1975 COMPOSITE  | 8.67  | 170.9 | 446.5 | 1.67 | 12.00 |      |     |      |
| IDLE KEYMODE    | 11673 | 8.06  |       | 32   |       | 1178 | 375 | 4.80 |
| LOW CR. KEYMODE | 4459  | 5.52  |       | 518  |       | 801  | 210 | 3.20 |
| HI. CR. KEYMODE | 4449  | 7.31  |       | 353  |       | 765  | 185 | 4.40 |
| 2500 RPM        |       |       |       |      |       |      | 280 | 4.90 |

DRIVEABILITY DEMERITS 18

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 059

1965 CHEV STAW 327 4000LBS

TUNE UP EVALUATION

8CYL 4BBL AUTOMATIC

079730 MILES

HAS: NO EMC, NO EVC, PCV

RUN NUMBER 3

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0214

09/04/73 BAR:24.89 DB:76 WB:55  
REL.HUM:26.8% NOX COR: .868

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.05 | 194.7 | 451.5 | 1.84 | 11.24 |     |     |      |
| COLD STABILIZED | 9.82  | 165.3 | 428.4 | 1.60 | 12.38 |     |     |      |
| HOT TRANSIENT   | 6.64  | 125.0 | 396.0 | 2.65 | 14.52 |     |     |      |
| 1975 COMPOSITE  | 9.19  | 160.3 | 424.3 | 1.94 | 12.63 |     |     |      |
| IDLE KEYMODE    | 14480 | 8.79  |       | 47   |       | 821 | 710 | 8.80 |
| LOW CR. KEYMODE | 5380  | 5.00  |       | 893  |       | 673 | 380 | 4.80 |
| HI. CR. KEYMODE | 5316  | 6.41  |       | 727  |       | 647 | 330 | 6.10 |
| 2500 RPM        |       |       |       |      |       |     | 430 | 7.00 |

DRIVEABILITY DEMERITS 14

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0226

09/05/73 BAR:24.95 DB:71 WB:54  
REL.HUM:34.5% NOX COR: .881

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 12.68 | 238.6 | 432.7 | 1.12 | 10.50 |     |     |       |
| COLD STABILIZED | 12.43 | 210.9 | 401.5 | 0.77 | 11.53 |     |     |       |
| HOT TRANSIENT   | 8.20  | 150.5 | 356.4 | 1.50 | 14.39 |     |     |       |
| 1975 COMPOSITE  | 11.31 | 199.9 | 395.5 | 1.05 | 11.95 |     |     |       |
| IDLE KEYMODE    | 22864 | 9.84  |       | 16   |       | 795 | 675 | ***** |
| LOW CR. KEYMODE | 4378  | 5.71  |       | 593  |       | 514 | 275 | 5.40  |
| HI. CR. KEYMODE | 3915  | 5.66  |       | 713  |       | 442 | 220 | 5.60  |
| 2500 RPM        |       |       |       |      |       |     | 380 | 8.90  |

DRIVEABILITY DEMERITS 30

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 073

1971 FORD TORI 351 3500LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

022051 MILES

HAS: EMC, EVC, PCV

RUN NUMBER 5

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0152

08/28/73 BAR:24.71 DB:73 WB:56  
REL.HUM:36.3% NOX COR: .906

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.69 | 45.8 | 527.2 | 7.08 | 14.43 |     |     |      |
| COLD STABILIZED | 5.17 | 44.4 | 518.7 | 4.97 | 14.73 |     |     |      |
| HOT TRANSIENT   | 4.32 | 30.6 | 482.3 | 6.84 | 16.37 |     |     |      |
| 1975 COMPOSITE  | 5.04 | 40.8 | 510.4 | 5.93 | 15.08 |     |     |      |
| IDLE KEYMODE    | 3873 | 1.97 |       | 160  |       | 685 | 670 | 1.90 |
| LOW CR. KEYMODE | 3890 | 0.31 |       | 2452 |       | 649 | 560 | 0.35 |
| HI. CR. KEYMODE | 3767 | 0.90 |       | 2647 |       | 583 | 480 | 0.90 |
| 2500 RPM        |      |      |       |      |       |     | 800 | 0.46 |

DRIVEABILITY DEMERITS 25

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0167

08/29/73 BAR:24.77 DB:74 WB:58  
REL.HUM:40.1% NOX COR: .935

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.20 | 48.5 | 539.6 | 6.19 | 14.08 |     |     |      |
| COLD STABILIZED | 4.10 | 43.4 | 533.9 | 4.32 | 14.48 |     |     |      |
| HOT TRANSIENT   | 4.02 | 29.6 | 485.9 | 6.15 | 16.34 |     |     |      |
| 1975 COMPOSITE  | 4.31 | 40.6 | 521.8 | 5.22 | 14.86 |     |     |      |
| IDLE KEYMODE    | 3501 | 1.80 |       | 128  |       | 636 | 240 | 1.65 |
| LOW CR. KEYMODE | 3378 | 0.26 |       | 1803 |       | 599 | 215 | 0.30 |
| HI. CR. KEYMODE | 3327 | 0.91 |       | 2133 |       | 543 | 190 | 0.85 |
| 2500 RPM        |      |      |       |      |       |     | 450 | 0.58 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 073

1971 FORD TORI 351 3500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 022051 MILES HAS: EMC, EVC, PCV

RUN NUMBER 5

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0187

08/30/73 BAR:24.67 DB:79 WB:59  
REL.HUM:32.1% NOX COR: .923

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 8.67 | 126.3 | 557.3 | 6.57 | 11.37 |     |      |      |
| COLD STABILIZED | 5.25 | 28.1  | 572.6 | 5.70 | 14.06 |     |      |      |
| HOT TRANSIENT   | 5.50 | 35.4  | 520.7 | 7.85 | 15.00 |     |      |      |
| 1975 COMPOSITE  | 6.04 | 50.7  | 555.0 | 6.48 | 13.62 |     |      |      |
| IDLE KEYMODE    | 3953 | 0.21  |       | 445  |       | 707 | 340  | 0.99 |
| LOW CR. KEYMODE | 3789 | 0.39  |       | 3019 |       | 661 | 290  | 0.40 |
| HI. CR. KEYMODE | 3608 | 0.88  |       | 3111 |       | 582 | 275  | 0.90 |
| 2500 RPM        |      |       |       |      |       |     | **** | 0.50 |

DRIVEABILITY DEMERITS 6

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0197

08/31/73 BAR:24.53 DB:71 WB:57  
REL.HUM:44.7% NOX COR: .940

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.57 | 116.2 | 540.3 | 3.42 | 11.98 |     |     |      |
| COLD STABILIZED | 2.99 | 20.0  | 619.5 | 3.29 | 13.49 |     |     |      |
| HOT TRANSIENT   | 2.96 | 26.4  | 513.7 | 4.40 | 15.77 |     |     |      |
| 1975 COMPOSITE  | 3.73 | 41.9  | 573.6 | 3.63 | 13.68 |     |     |      |
| IDLE KEYMODE    | 2775 | 0.58  |       | 250  |       | 624 | 120 | 0.20 |
| LOW CR. KEYMODE | 2987 | 0.45  |       | 1439 |       | 606 | 165 | 0.45 |
| HI. CR. KEYMODE | 3059 | 1.00  |       | 2043 |       | 570 | 155 | 0.95 |
| 2500 RPM        |      |       |       |      |       |     | 60  | 1.00 |

DRIVEABILITY DEMERITS 13

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 073

1971 FORD TORI 351 3500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 022051 MILES HAS: EMC, EVC, PCV

RUN NUMBER 5

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO: C0216

09/04/73 BAR:24.88 DB:78 WB:55  
REL.HUM:23.2% NOX COR: .857

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.07 | 172.0 | 487.1 | 3.51 | 11.28 |     |     |      |
| COLD STABILIZED | 4.04  | 23.0  | 519.2 | 3.54 | 15.68 |     |     |      |
| HOT TRANSIENT   | 4.11  | 24.0  | 456.4 | 5.11 | 17.56 |     |     |      |
| 1975 COMPOSITE  | 5.32  | 54.5  | 495.1 | 3.97 | 14.91 |     |     |      |
| IDLE KEYMODE    | 5406  | 0.14  |       | 185  |       | 791 | 660 | 0.18 |
| LOW CR. KEYMODE | 3902  | 0.25  |       | 2182 |       | 506 | 220 | 0.30 |
| HI. CR. KEYMODE | 3666  | 0.61  |       | 3564 |       | 457 | 195 | 0.70 |
| 2500 RPM        |       |       |       |      |       |     | 680 | 0.55 |

DRIVEABILITY DEMERITS 7

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO: C0225

09/05/73 BAR:24.95 DB:68 WB:53  
REL.HUM:38.7% NOX COR: .884

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.83 | 56.0 | 599.0 | 3.47 | 12.74 |     |     |      |
| COLD STABILIZED | 2.74 | 15.5 | 632.3 | 2.99 | 13.39 |     |     |      |
| HOT TRANSIENT   | 2.65 | 19.3 | 508.4 | 3.72 | 16.27 |     |     |      |
| 1975 COMPOSITE  | 2.95 | 25.0 | 591.0 | 3.29 | 13.93 |     |     |      |
| IDLE KEYMODE    | 2548 | 0.31 |       | 638  |       | 337 | 150 | 0.35 |
| LOW CR. KEYMODE | 2327 | 0.24 |       | 1652 |       | 307 | 120 | 0.30 |
| HI. CR. KEYMODE | 2451 | 0.57 |       | 2776 |       | 301 | 120 | 0.60 |
| 2500 RPM        |      |      |       |      |       |     | 30  | 0.35 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 073

1971 FORD TORI 351 3500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 022051 MILES HAS: EMC, EVC, PCV

RUN NUMBER 5

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0239

09/06/73 BAR:24.73 DB:81 WB:57  
REL.HUM:23.3% NOX COR: .874

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.50 | 138.2 | 513.7 | 3.55 | 11.80 |     |     |      |
| COLD STABILIZED | 3.08 | 21.5  | 592.7 | 3.57 | 14.00 |     |     |      |
| HOT TRANSIENT   | 3.19 | 25.4  | 494.8 | 4.88 | 16.35 |     |     |      |
| 1975 COMPOSITE  | 4.04 | 47.0  | 549.0 | 3.93 | 14.01 |     |     |      |
| IDLE KEYMODE    | 2367 | 0.45  |       | 466  |       | 284 | 190 | 0.60 |
| LOW CR. KEYMODE | 2699 | 0.31  |       | 2287 |       | 317 | 185 | 0.35 |
| HI. CR. KEYMODE | 2782 | 1.07  |       | 3121 |       | 308 | 185 | 1.05 |
| 2500 RPM        |      |       |       |      |       |     | 480 | 0.45 |

DRIVEABILITY DEMERITS 1

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0255

09/07/73 BAR:24.59 DB:77 WB:56  
REL.HUM:27.9% NOX COR: .882

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.44 | 124.9 | 511.2 | 3.52 | 12.24 |     |     |      |
| COLD STABILIZED | 3.14 | 22.1  | 545.6 | 3.53 | 15.09 |     |     |      |
| HOT TRANSIENT   | 3.99 | 34.0  | 465.4 | 4.42 | 16.76 |     |     |      |
| 1975 COMPOSITE  | 4.06 | 46.9  | 516.1 | 3.78 | 14.78 |     |     |      |
| IDLE KEYMODE    | 2934 | 0.10  |       | 206  |       | 391 | 190 | 0.12 |
| LOW CR. KEYMODE | 2778 | 0.40  |       | 2190 |       | 324 | 220 | 0.40 |
| HI. CR. KEYMODE | 2725 | 1.17  |       | 2745 |       | 291 | 170 | 1.10 |
| 2500 RPM        |      |       |       |      |       |     | 900 | 0.75 |

DRIVEABILITY DEMERITS 9

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 074

1965 FORD FAIR 289 3500LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

073336 MILES

HAS: NO EMC, NO EVC, PCV

RUN NUMBER 4

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0143

08/27/73 BAR:24.71 DB:79 WB:59  
REL.HUM:32.1% NOX COR: .922

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.78 | 144.9 | 437.0 | 2.70 | 12.86 |     |     |      |
| COLD STABILIZED | 5.60 | 98.4  | 434.3 | 2.65 | 14.68 |     |     |      |
| HOT TRANSIENT   | 5.63 | 80.2  | 394.6 | 3.72 | 16.54 |     |     |      |
| 1975 COMPOSITE  | 6.28 | 103.1 | 423.9 | 2.96 | 14.71 |     |     |      |
| IDLE KEYMODE    | 4569 | 3.45  |       | 141  |       | 740 | 510 | 3.20 |
| LOW CR. KEYMODE | 4584 | 4.35  |       | 913  |       | 732 | 560 | 4.20 |
| HI. CR. KEYMODE | 3956 | 2.17  |       | 2469 |       | 611 | 380 | 2.10 |
| 2500 RPM        |      |       |       |      |       |     | 420 | 4.20 |

DRIVEABILITY DEMERITS 74

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0158

08/28/73 BAR:24.77 DB:74 WB:58  
REL.HUM:40.1% NOX COR: .935

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.09 | 134.3 | 438.8 | 3.01 | 13.18 |     |     |      |
| COLD STABILIZED | 6.37 | 100.9 | 440.2 | 2.66 | 14.39 |     |     |      |
| HOT TRANSIENT   | 4.94 | 67.1  | 409.7 | 3.85 | 16.78 |     |     |      |
| 1975 COMPOSITE  | 6.33 | 98.5  | 431.4 | 3.06 | 14.69 |     |     |      |
| IDLE KEYMODE    | 4520 | 4.21  |       | 60   |       | 693 | 480 | 4.10 |
| LOW CR. KEYMODE | 3983 | 2.60  |       | 1031 |       | 649 | 440 | 2.80 |
| HI. CR. KEYMODE | 3480 | 1.88  |       | 1656 |       | 557 | 320 | 1.80 |
| 2500 RPM        |      |       |       |      |       |     | 320 | 3.40 |

DRIVEABILITY DEMERITS 41

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 074

1965 FORD FAIR 289 3500LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

073336 MILES

HAS: NO EMC, NO EVC, PCV

RUN NUMBER 4

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0171

08/29/73 BAR:24.77 DB:76 WB:59  
REL.HUM:38.4% NOX COR: .942

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.49 | 169.6 | 460.9 | 2.37 | 11.76 |     |     |      |
| COLD STABILIZED | 4.77 | 93.4  | 437.9 | 2.02 | 14.85 |     |     |      |
| HOT TRANSIENT   | 4.58 | 68.4  | 409.4 | 3.13 | 16.76 |     |     |      |
| 1975 COMPOSITE  | 5.71 | 102.4 | 434.8 | 2.40 | 14.51 |     |     |      |
| IDLE KEYMODE    | 3820 | 3.17  |       | 69   |       | 658 | 350 | 3.10 |
| LOW CR. KEYMODE | 3791 | 2.89  |       | 821  |       | 650 | 240 | 2.90 |
| HI. CR. KEYMODE | 3274 | 2.22  |       | 1505 |       | 551 | 230 | 1.90 |
| 2500 RPM        |      |       |       |      |       |     | 280 | 3.90 |

DRIVEABILITY DEMERITS 47

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0188

08/30/73 BAR:24.67 DB:75 WB:56  
REL.HUM:31.8% NOX COR: .894

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.64 | 138.0 | 445.3 | 3.19 | 12.98 |     |     |      |
| COLD STABILIZED | 5.20 | 76.5  | 443.3 | 3.19 | 15.35 |     |     |      |
| HOT TRANSIENT   | 4.45 | 60.2  | 399.4 | 4.33 | 17.53 |     |     |      |
| 1975 COMPOSITE  | 5.50 | 84.9  | 431.5 | 3.51 | 15.30 |     |     |      |
| IDLE KEYMODE    | 4337 | 2.27  |       | 104  |       | 744 | 435 | 2.20 |
| LOW CR. KEYMODE | 4094 | 2.49  |       | 1349 |       | 648 | 380 | 2.40 |
| HI. CR. KEYMODE | 3647 | 2.13  |       | 2172 |       | 560 | 280 | 1.90 |
| 2500 RPM        |      |       |       |      |       |     | 300 | 3.10 |

DRIVEABILITY DEMERITS 18

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 074

1965 FORD FAIR 289 3500LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

073336 MILES

HAS: NO EMC, NO EVC, PCV

RUN NUMBER 4

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:CA196

08/31/73 BAR:24.52 DB:70 WB:57  
REL.HUM:47.5% NOX COR: .947

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.08 | 143.4 | 459.1 | 3.57 | 12.54 |     |     |      |
| COLD STABILIZED | 5.33 | 82.8  | 471.1 | 3.52 | 14.41 |     |     |      |
| HOT TRANSIENT   | 5.21 | 67.6  | 435.3 | 5.05 | 15.96 |     |     |      |
| 1975 COMPOSITE  | 5.87 | 91.3  | 458.6 | 3.95 | 14.35 |     |     |      |
| IDLE KEYMODE    | 3648 | 2.20  |       | 155  |       | 714 | 300 | 2.20 |
| LOW CR. KEYMODE | 3842 | 2.71  |       | 1363 |       | 706 | 315 | 2.60 |
| HI. CR. KEYMODE | 3465 | 1.93  |       | 2343 |       | 634 | 225 | 1.85 |
| 2500 RPM        |      |       |       |      |       |     | 250 | 2.90 |

DRIVEABILITY DEMERITS 91

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0215

09/04/73 BAR:24.88 DB:79 WB:55  
REL.HUM:21.5% NOX COR: .851

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.87 | 152.1 | 446.0 | 2.81 | 12.49 |     |     |      |
| COLD STABILIZED | 5.48 | 84.0  | 431.2 | 2.68 | 15.34 |     |     |      |
| HOT TRANSIENT   | 4.53 | 65.4  | 404.2 | 3.62 | 17.08 |     |     |      |
| 1975 COMPOSITE  | 5.93 | 93.1  | 426.8 | 2.97 | 15.05 |     |     |      |
| IDLE KEYMODE    | 5577 | 3.87  |       | 73   |       | 669 | 360 | 3.00 |
| LOW CR. KEYMODE | 5062 | 2.78  |       | 1405 |       | 694 | 330 | 2.80 |
| HI. CR. KEYMODE | 4615 | 1.90  |       | 2419 |       | 628 | 240 | 1.95 |
| 2500 RPM        |      |       |       |      |       |     | 330 | 3.50 |

DRIVEABILITY DEMERITS 80

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 074

1965 FORD FAIR 289 3500LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

073336 MILES

HAS: NO EMC, NO EVC, PCV

RUN NUMBER 4

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0224

09/05/73 BAR:24.95 DB:72 WB:54  
REL.HUM:32.1% NOX COR: .876

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.28 | 148.8 | 459.9 | 2.82 | 12.37 |     |     |      |
| COLD STABILIZED | 5.17 | 91.7  | 476.9 | 2.77 | 13.97 |     |     |      |
| HOT TRANSIENT   | 4.31 | 68.5  | 428.8 | 3.72 | 16.19 |     |     |      |
| 1975 COMPOSITE  | 5.58 | 97.2  | 460.0 | 3.04 | 14.13 |     |     |      |
| IDLE KEYMODE    | 3818 | 3.94  |       | 190  |       | 430 | 228 | 3.90 |
| LOW CR. KEYMODE | 3625 | 2.60  |       | 1450 |       | 464 | 255 | 2.90 |
| HI. CR. KEYMODE | 3282 | 1.95  |       | 2389 |       | 398 | 180 | 2.10 |
| 2500 RPM        |      |       |       |      |       |     | 230 | 3.70 |

DRIVEABILITY DEMERITS 72

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0240

09/06/73 BAR:24.73 DB:80 WB:56  
REL.HUM:22.5% NOX COR: .863

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.19 | 162.8 | 426.2 | 2.27 | 12.47 |     |     |      |
| COLD STABILIZED | 7.24  | 92.0  | 421.6 | 2.42 | 15.12 |     |     |      |
| HOT TRANSIENT   | 5.65  | 70.7  | 406.6 | 3.55 | 16.62 |     |     |      |
| 1975 COMPOSITE  | 7.42  | 100.9 | 418.4 | 2.71 | 14.83 |     |     |      |
| IDLE KEYMODE    | 6557  | 5.69  |       | 69   |       | 575 | 410 | 5.40 |
| LOW CR. KEYMODE | 3622  | 2.66  |       | 1395 |       | 431 | 285 | 2.60 |
| HI. CR. KEYMODE | 3125  | 1.91  |       | 2326 |       | 344 | 208 | 1.90 |
| 2500 RPM        |       |       |       |      |       |     | 270 | 3.40 |

DRIVEABILITY DEMERITS 41

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 103

1973 FORD MAVE 302 3000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

009029 MILES

HAS: EMC, EVC, PCV

RUN NUMBER 6

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0222

09/05/73 BAR:24.94 DB:71 WB:53  
REL.HUM:31.3% NOX COR: .866

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.01 | 93.3 | 561.4 | 1.32 | 12.30 |     |     |      |
| COLD STABILIZED | 3.60 | 56.6 | 556.6 | 1.06 | 13.56 |     |     |      |
| HOT TRANSIENT   | 3.35 | 47.1 | 473.6 | 1.31 | 15.95 |     |     |      |
| 1975 COMPOSITE  | 3.83 | 61.6 | 534.6 | 1.18 | 13.84 |     |     |      |
| IDLE KEYMODE    | 3320 | 0.62 |       | 94   |       | 416 | 190 | 0.70 |
| LOW CR. KEYMODE | 3449 | 1.25 |       | 734  |       | 393 | 170 | 1.25 |
| HI. CR. KEYMODE | 3402 | 1.23 |       | 1036 |       | 390 | 160 | 1.25 |
| 2500 RPM        |      |      |       |      |       |     | 70  | 2.00 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0237

09/06/73 BAR:24.76 DB:77 WB:56  
REL.HUM:27.8% NOX COR: .880

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.12 | 82.8 | 539.9 | 1.19 | 12.98 |     |     |      |
| COLD STABILIZED | 3.79 | 65.3 | 529.8 | 0.93 | 13.82 |     |     |      |
| HOT TRANSIENT   | 3.56 | 58.9 | 455.1 | 1.06 | 15.93 |     |     |      |
| 1975 COMPOSITE  | 4.00 | 67.2 | 511.2 | 1.02 | 14.15 |     |     |      |
| IDLE KEYMODE    | 2728 | 0.50 |       | 83   |       | 317 | 190 | 0.50 |
| LOW CR. KEYMODE | 3135 | 1.95 |       | 553  |       | 322 | 205 | 1.90 |
| HI. CR. KEYMODE | 3068 | 1.34 |       | 956  |       | 296 | 185 | 1.40 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 2.80 |

DRIVEABILITY DEMERITS 18

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 103

1973 FORD MAVE 302 3000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

009029 MILES

HAS: EMC, EVC, PCV

RUN NUMBER 6

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0253

09/07/73 BAR:24.60 DB:76 WB:56  
REL.HUM:29.8% NOX COR: .888

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.82 | 64.2 | 493.1 | 1.91 | 14.62 |     |     |      |
| COLD STABILIZED | 4.00 | 53.1 | 493.1 | 1.43 | 15.12 |     |     |      |
| HOT TRANSIENT   | 3.51 | 42.9 | 432.9 | 1.89 | 17.41 |     |     |      |
| 1975 COMPOSITE  | 4.04 | 52.6 | 476.4 | 1.66 | 15.58 |     |     |      |
| IDLE KEYMODE    | 3080 | 0.61 |       | 130  |       | 374 | 250 | 0.55 |
| LOW CR. KEYMODE | 3521 | 1.44 |       | 1022 |       | 406 | 270 | 1.40 |
| HI. CR. KEYMODE | 3542 | 1.81 |       | 1378 |       | 402 | 250 | 1.75 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 2.00 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0269

09/10/73 BAR:24.85 DB:72 WB:62  
REL.HUM:59.2% NOX COR:1.041

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.77 | 65.7 | 494.2 | 1.80 | 14.54 |     |     |      |
| COLD STABILIZED | 4.20 | 58.7 | 522.4 | 1.46 | 14.18 |     |     |      |
| HOT TRANSIENT   | 3.70 | 45.8 | 431.5 | 1.76 | 17.29 |     |     |      |
| 1975 COMPOSITE  | 4.18 | 56.6 | 491.3 | 1.62 | 15.01 |     |     |      |
| IDLE KEYMODE    | 3529 | 0.54 |       | 113  |       | 631 | 250 | 0.55 |
| LOW CR. KEYMODE | 3973 | 1.77 |       | 1067 |       | 699 | 270 | 1.70 |
| HI. CR. KEYMODE | 3841 | 1.62 |       | 1265 |       | 673 | 250 | 1.70 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 0.70 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19700 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 103

1973 FORD MAVE 302 3000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

009029 MILES

HAS: EMC, EVC, PCV

RUN NUMBER 6

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0285

09/11/73 BAR:24.77 DB:70 WB:62  
REL.HUM:65.9% NOX COR:1.060

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.52 | 110.1 | 453.9 | 1.55 | 13.68 |     |     |      |
| COLD STABILIZED | 4.26 | 66.1  | 471.7 | 1.30 | 15.12 |     |     |      |
| HOT TRANSIENT   | 4.09 | 49.6  | 408.1 | 1.79 | 17.85 |     |     |      |
| 1975 COMPOSITE  | 4.90 | 70.7  | 450.3 | 1.49 | 15.44 |     |     |      |
| IDLE KEYMODE    | 3872 | 1.09  |       | 68   |       | 527 | 300 | 0.80 |
| LOW CR. KEYMODE | 3891 | 1.53  |       | 702  |       | 507 | 252 | 1.50 |
| HI. CR. KEYMODE | 3864 | 1.57  |       | 1239 |       | 510 | 250 | 1.60 |
| 2500 RPM        |      |       |       |      |       |     | 130 | 2.30 |

DRIVEABILITY DEMERITS 20

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0299

09/12/73 BAR:24.68 DB:69 WB:59  
REL.HUM:57.7% NOX COR:.994

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.10 | 79.7 | 608.6 | 1.52 | 11.87 |     |     |      |
| COLD STABILIZED | 3.70 | 62.7 | 574.1 | 1.09 | 13.01 |     |     |      |
| HOT TRANSIENT   | 3.53 | 54.8 | 490.9 | 1.36 | 15.14 |     |     |      |
| 1975 COMPOSITE  | 3.94 | 64.1 | 558.3 | 1.26 | 13.27 |     |     |      |
| IDLE KEYMODE    | 3100 | 0.11 |       | 89   |       | 340 | 170 | 0.15 |
| LOW CR. KEYMODE | 3284 | 1.53 |       | 643  |       | 345 | 150 | 0.60 |
| HI. CR. KEYMODE | 3307 | 1.39 |       | 863  |       | 346 | 155 | 1.40 |
| 2500 RPM        |      |      |       |      |       |     | 72  | 2.20 |

DRIVEABILITY DEMERITS 8

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 103

1973 FORD MAVE 302 3000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

009029 MILES

HAS: EMC, EVC, PCV

RUN NUMBER 6

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0316

09/13/73 BAR:24.74 DB:71 WB:56  
REL.HUM:41.2% NOX COR: .918

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.16 | 67.5 | 536.2 | 1.63 | 13.52 |     |     |      |
| COLD STABILIZED | 3.89 | 64.2 | 550.6 | 1.24 | 13.42 |     |     |      |
| HOT TRANSIENT   | 3.38 | 46.3 | 455.6 | 1.57 | 16.52 |     |     |      |
| 1975 COMPOSITE  | 4.02 | 59.9 | 521.2 | 1.41 | 14.18 |     |     |      |
| IDLE KEYMODE    | 3220 | 1.94 |       | 108  |       | 525 | 200 | 1.90 |
| LOW CR. KEYMODE | 3183 | 1.48 |       | 496  |       | 536 | 180 | 1.65 |
| HI. CR. KEYMODE | 3256 | 1.27 |       | 1117 |       | 578 | 180 | 1.30 |
| 2500 RPM        |      |      |       |      |       |     | 80  | 1.90 |

DRIVEABILITY DEMERITS 29

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0333

09/14/73 BAR:24.62 DB:83 WB:53  
REL.HUM:11.6% NOX COR: .805

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.12 | 60.7 | 544.2 | 1.18 | 13.65 |     |     |      |
| COLD STABILIZED | 3.80 | 78.5 | 526.4 | 0.76 | 13.46 |     |     |      |
| HOT TRANSIENT   | 3.28 | 54.3 | 460.0 | 1.04 | 16.02 |     |     |      |
| 1975 COMPOSITE  | 3.72 | 68.1 | 511.7 | 0.93 | 14.13 |     |     |      |
| IDLE KEYMODE    | 3055 | 2.74 |       | 85   |       | 500 | 270 | 2.30 |
| LOW CR. KEYMODE | 3124 | 2.23 |       | 484  |       | 513 | 235 | 2.20 |
| HI. CR. KEYMODE | 3107 | 1.69 |       | 811  |       | 501 | 210 | 1.65 |
| 2500 RPM        |      |      |       |      |       |     | 115 | 2.60 |

DRIVEABILITY DEMERITS 16

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 106

1964 FORD GALA 289 4500LBS

TUNE UP EVALUATION

8CYL 2BBL

3 SPEED

030087 MILES

HAS: NO EMC, NO EVC, NO PCV

RUN NUMBER 7

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0223

09/05/73 BAR:24.94 DB:69 WB:55  
REL.HUM:43.0% NOX COR: .911

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 12.66 | 140.9 | 407.4 | 1.89 | 13.31 |     |     |      |
| COLD STABILIZED | 11.04 | 166.1 | 408.9 | 1.35 | 12.64 |     |     |      |
| HOT TRANSIENT   | 8.12  | 113.8 | 361.9 | 1.78 | 15.72 |     |     |      |
| 1975 COMPOSITE  | 10.57 | 146.3 | 395.5 | 1.58 | 13.52 |     |     |      |
| IDLE KEYMODE    | 8301  | 8.76  |       | 46   |       | 611 | 365 | 8.70 |
| LOW CR. KEYMODE | 3998  | 3.36  |       | 593  |       | 395 | 190 | 3.30 |
| HI. CR. KEYMODE | 4036  | 2.89  |       | 1737 |       | 463 | 240 | 2.90 |
| 2500 RPM        |       |       |       |      |       |     | 165 | 4.90 |

DRIVEABILITY DEMERITS 3

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0238

09/06/73 BAR:24.73 DB:80 WB:56  
REL.HUM:22.5% NOX COR: .863

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 15.56 | 143.1 | 382.7 | 1.80 | 13.56 |     |     |      |
| COLD STABILIZED | 11.21 | 167.7 | 385.0 | 1.13 | 13.02 |     |     |      |
| HOT TRANSIENT   | 9.08  | 119.8 | 363.6 | 1.71 | 15.34 |     |     |      |
| 1975 COMPOSITE  | 11.53 | 149.2 | 378.6 | 1.43 | 13.71 |     |     |      |
| IDLE KEYMODE    | 8248  | 8.38  |       | 43   |       | 629 | 445 | 8.20 |
| LOW CR. KEYMODE | 4120  | 3.36  |       | 839  |       | 500 | 340 | 3.50 |
| HI. CR. KEYMODE | 3997  | 4.89  |       | 1080 |       | 456 | 310 | 4.70 |
| 2500 RPM        |       |       |       |      |       |     | 210 | 4.70 |

DRIVEABILITY DEMERITS 11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 106

1964 FORD GALA 289 4500LBS

TUNE UP EVALUATION

8CYL 2BBL 3 SPEED 030087 MILES

HAS: NO EMC, NO EVC, NO PCV

RUN NUMBER 7

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0254

09/07/73 BAR:24.59 DB:76 WB:55  
REL.HUM:27.1% NOX COR: .872

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 14.72 | 148.6 | 366.9 | 1.63 | 13.76 |     |     |      |
| COLD STABILIZED | 12.21 | 181.1 | 369.1 | 1.01 | 12.86 |     |     |      |
| HOT TRANSIENT   | 9.78  | 123.4 | 378.6 | 1.91 | 14.76 |     |     |      |
| 1975 COMPOSITE  | 12.06 | 158.3 | 371.3 | 1.39 | 13.53 |     |     |      |
| IDLE KEYMODE    | 8746  | 8.93  |       | 40   |       | 594 | 410 | 8.60 |
| LOW CR. KEYMODE | 4223  | 3.59  |       | 982  |       | 478 | 280 | 3.50 |
| HI. CR. KEYMODE | 4229  | 6.37  |       | 855  |       | 455 | 285 | 6.00 |
| 2500 RPM        |       |       |       |      |       |     | 180 | 4.60 |

DRIVEABILITY DEMERITS 21

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0271

09/10/73 BAR:24.80 DB:71 WB:62  
REL.HUM:62.4% NOX COR:1.051

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 12.19 | 127.8 | 404.5 | 2.02 | 13.83 |     |     |      |
| COLD STABILIZED | 10.70 | 144.8 | 384.6 | 1.26 | 13.78 |     |     |      |
| HOT TRANSIENT   | 7.47  | 103.3 | 362.5 | 1.96 | 16.24 |     |     |      |
| 1975 COMPOSITE  | 10.12 | 129.8 | 382.6 | 1.61 | 14.40 |     |     |      |
| IDLE KEYMODE    | 6498  | 5.24  |       | 46   |       | 761 | 365 | 4.80 |
| LOW CR. KEYMODE | 3696  | 3.23  |       | 699  |       | 473 | 180 | 3.20 |
| HI. CR. KEYMODE | 4230  | 6.10  |       | 880  |       | 566 | 950 | 5.70 |
| 2500 RPM        |       |       |       |      |       |     | 155 | 4.90 |

DRIVEABILITY DEMERITS 33

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 106

1964 FORD GALA 289 4500LBS

TUNE UP EVALUATION

8CYL 2BBL

3 SPEED

030087 MILES

HAS: NO EMC, NO EVC, NO PCV

RUN NUMBER 7

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0286

09/11/73 BAR:24.76 DB:70 WB:62  
REL.HUM:65.9% NOX COR:1.060

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 25.45 | 143.7 | 377.5 | 2.17 | 13.02 |     |     |      |
| COLD STABILIZED | 10.78 | 153.7 | 392.7 | 1.47 | 13.32 |     |     |      |
| HOT TRANSIENT   | 8.10  | 103.6 | 341.5 | 2.00 | 16.80 |     |     |      |
| 1975 COMPOSITE  | 13.11 | 137.7 | 375.4 | 1.76 | 14.07 |     |     |      |
| IDLE KEYMODE    | 5992  | 4.84  |       | 47   |       | 571 | 110 | 4.40 |
| LOW CR. KEYMODE | 4185  | 3.45  |       | 1038 |       | 501 | 290 | 3.50 |
| HI. CR. KEYMODE | 4022  | 5.34  |       | 1085 |       | 474 | 260 | 5.00 |
| 2500 RPM        |       |       |       |      |       |     | 250 | 4.60 |

DRIVEABILITY DEMERITS 22

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0300

09/12/73 BAR:24.68 DB:69 WB:59  
REL.HUM:57.7% NOX COR:.994

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 13.70 | 135.6 | 398.6 | 2.40 | 13.59 |     |     |      |
| COLD STABILIZED | 12.21 | 160.6 | 384.9 | 1.42 | 13.18 |     |     |      |
| HOT TRANSIENT   | 9.23  | 111.4 | 363.9 | 2.15 | 15.67 |     |     |      |
| 1975 COMPOSITE  | 11.70 | 141.7 | 381.9 | 1.83 | 13.88 |     |     |      |
| IDLE KEYMODE    | 8920  | 7.39  |       | 35   |       | 672 | 380 | 6.80 |
| LOW CR. KEYMODE | 4384  | 3.28  |       | 979  |       | 530 | 255 | 3.20 |
| HI. CR. KEYMODE | 4232  | 5.55  |       | 1045 |       | 520 | 240 | 5.10 |
| 2500 RPM        |       |       |       |      |       |     | 160 | 4.70 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 106

1964 FORD GALA 289 4500LBS

TUNE UP EVALUATION

8CYL 2BBL 3 SPEED 030087 MILES

HAS: NO EMC, NO EVC, NO PCV

RUN NUMBER 7

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0317

09/13/73 BAR:24.63 DB:75 WB:57  
REL.HUM:34.8% NOX COR: .912

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 14.46 | 142.7 | 395.6 | 1.97 | 13.38 |     |     |      |
| COLD STABILIZED | 12.29 | 160.6 | 395.9 | 1.25 | 12.96 |     |     |      |
| HOT TRANSIENT   | 8.48  | 113.8 | 385.5 | 2.11 | 15.06 |     |     |      |
| 1975 COMPOSITE  | 11.69 | 143.9 | 393.0 | 1.64 | 13.58 |     |     |      |
| IDLE KEYMODE    | 10749 | 8.27  |       | 56   |       | 777 | 370 | 7.80 |
| LOW CR. KEYMODE | 3697  | 2.92  |       | 708  |       | 519 | 175 | 3.00 |
| HI. CR. KEYMODE | 3971  | 5.08  |       | 1138 |       | 577 | 225 | 4.80 |
| 2500 RPM        |       |       |       |      |       |     | 165 | 4.70 |

DRIVEABILITY DEMERITS 13

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0335

09/14/73 BAR:24.63 DB:78 WB:55  
REL.HUM:23.4% NOX COR: .860

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 12.55 | 138.0 | 383.7 | 1.50 | 13.91 |      |     |      |
| COLD STABILIZED | 10.29 | 147.2 | 388.7 | 1.01 | 13.65 |      |     |      |
| HOT TRANSIENT   | 7.50  | 103.5 | 369.8 | 1.54 | 16.01 |      |     |      |
| 1975 COMPOSITE  | 9.99  | 133.1 | 382.4 | 1.26 | 14.29 |      |     |      |
| IDLE KEYMODE    | 7459  | 7.50  |       | 38   |       | 700. | 360 | 6.80 |
| LOW CR. KEYMODE | 3535  | 3.05  |       | 539  |       | 511  | 175 | 3.00 |
| HI. CR. KEYMODE | 3785  | 4.83  |       | 1029 |       | 581  | 230 | 4.20 |
| 2500 RPM        |       |       |       |      |       |      | 180 | 4.70 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 111

1972 FORD TORI 302 4000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

017170 MILES

HAS: EMC, EVC, PCV

RUN NUMBER 8

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0262

09/08/73 BAR:24.58 DB:71 WB:60  
REL.HUM:55.2% NOX COR:1.004

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.86 | 252.9 | 533.7 | 1.51 | 9.19  |     |     |      |
| COLD STABILIZED | 5.42  | 53.4  | 676.5 | 3.53 | 11.45 |     |     |      |
| HOT TRANSIENT   | 5.45  | 72.0  | 536.0 | 4.11 | 13.36 |     |     |      |
| 1975 COMPOSITE  | 6.77  | 100.3 | 607.6 | 3.26 | 11.32 |     |     |      |
| IDLE KEYMODE    | 3401  | 1.36  |       | 574  |       | 503 | 270 | 1.25 |
| LOW CR. KEYMODE | 3832  | 1.58  |       | 1801 |       | 563 | 300 | 1.50 |
| HI. CR. KEYMODE | 4307  | 5.38  |       | 848  |       | 550 | 325 | 4.70 |
| 2500 RPM        |       |       |       |      |       |     | 145 | 1.90 |

DRIVEABILITY DEMERITS 40

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0272

09/10/73 BAR:24.76 DB:73 WB:62  
REL.HUM:56.1% NOX COR:1.035

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 12.22 | 240.2 | 495.1 | 2.24 | 9.77  |     |      |      |
| COLD STABILIZED | 5.29  | 41.6  | 586.0 | 4.28 | 13.33 |     |      |      |
| HOT TRANSIENT   | 5.43  | 60.3  | 487.1 | 5.76 | 14.87 |     |      |      |
| 1975 COMPOSITE  | 6.78  | 88.3  | 539.5 | 4.26 | 12.73 |     |      |      |
| IDLE KEYMODE    | 4283  | 2.32  |       | 301  |       | 822 | 365  | 2.20 |
| LOW CR. KEYMODE | 4347  | 1.42  |       | 2805 |       | 795 | 340  | 1.50 |
| HI. CR. KEYMODE | 4982  | 6.93  |       | 705  |       | 796 | 350  | 6.70 |
| 2500 RPM        |       |       |       |      |       |     | **** | 1.30 |

DRIVEABILITY DEMERITS 66

AUTOMOTIVE TESTING LABORATORIES, INC.  
1990 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 111

1972 FORD TORI 302 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 017170 MILES HAS: EMC, EVC, PCV

RUN NUMBER 8

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0293

09/11/73 BAR:24.65 DB:77 WB:60  
REL.HUM:39.2% NOX COR: .958

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 12.32 | 238.3 | 492.6 | 2.09 | 9.83  |      |      |      |
| COLD STABILIZED | 5.78  | 41.2  | 585.2 | 4.24 | 13.33 |      |      |      |
| HOT TRANSIENT   | 6.56  | 56.8  | 502.6 | 5.67 | 14.54 |      |      |      |
| 1975 COMPOSITE  | 7.37  | 86.7  | 543.0 | 4.19 | 12.68 |      |      |      |
| IDLE KEYMODE    | 5184  | 1.58  |       | 481  |       | 857  | 560  | 1.50 |
| LOW CR. KEYMODE | 4021  | 1.34  |       | 2400 |       | 605  | 285  | 1.25 |
| HI. CR. KEYMODE | 6350  | 6.79  |       | 668  |       | 1150 | 700  | 6.50 |
| 2500 RPM        |       |       |       |      |       |      | 1600 | 1.10 |

DRIVEABILITY DEMERITS 43

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0301

09/12/73 BAR:24.68 DB:70 WB:58  
REL.HUM:50.9% NOX COR: .965

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 12.92 | 283.1 | 466.0 | 1.44 | 9.36  |     |      |      |
| COLD STABILIZED | 4.36  | 55.7  | 548.2 | 3.76 | 13.71 |     |      |      |
| HOT TRANSIENT   | 4.08  | 63.5  | 473.5 | 4.86 | 15.19 |     |      |      |
| 1975 COMPOSITE  | 6.07  | 105.5 | 510.2 | 3.58 | 12.81 |     |      |      |
| IDLE KEYMODE    | 4109  | 3.82  |       | 110  |       | 572 | 300  | 3.90 |
| LOW CR. KEYMODE | 3564  | 0.98  |       | 3153 |       | 526 | 245  | 1.10 |
| HI. CR. KEYMODE | 5448  | 6.18  |       | 790  |       | 839 | 550  | 5.20 |
| 2500 RPM        |       |       |       |      |       |     | 1450 | 8.00 |

DRIVEABILITY DEMERITS 51

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 111

1972 FORD TORI 302 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 017170 MILES HAS: EMC, EVC, PCV

RUN NUMBER 8

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0318

09/13/73 BAR:24.63 DB:74 WB:56  
REL.HUM:34.0% NOX COR: .900

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.45 | 211.3 | 492.4 | 1.47 | 10.46 |     |     |      |
| COLD STABILIZED | 3.33 | 45.8  | 619.5 | 2.45 | 12.69 |     |     |      |
| HOT TRANSIENT   | 3.76 | 52.1  | 512.1 | 3.76 | 14.70 |     |     |      |
| 1975 COMPOSITE  | 4.52 | 82.2  | 563.1 | 2.61 | 12.61 |     |     |      |
| IDLE KEYMODE    | 3329 | 3.39  |       | 91   |       | 486 | 220 | 3.70 |
| LOW CR. KEYMODE | 2844 | 1.14  |       | 1286 |       | 461 | 165 | 1.15 |
| HI. CR. KEYMODE | 3267 | 3.86  |       | 1258 |       | 517 | 195 | 3.80 |
| 2500 RPM        |      |       |       |      |       |     | 85  | 1.40 |

DRIVEABILITY DEMERITS 90

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0329

09/14/73 BAR:24.80 DB:70 WB:58  
REL.HUM:50.8% NOX COR: .963

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.71 | 233.4 | 482.8 | 1.36 | 10.12 |     |     |      |
| COLD STABILIZED | 3.26 | 56.5  | 604.8 | 2.50 | 12.65 |     |     |      |
| HOT TRANSIENT   | 3.49 | 57.4  | 485.4 | 4.03 | 15.18 |     |     |      |
| 1975 COMPOSITE  | 4.67 | 93.8  | 546.2 | 2.69 | 12.58 |     |     |      |
| IDLE KEYMODE    | 3725 | 4.99  |       | 72   |       | 651 | 220 | 4.60 |
| LOW CR. KEYMODE | 2827 | 0.86  |       | 1575 |       | 590 | 140 | 0.90 |
| HI. CR. KEYMODE | 2877 | 1.08  |       | 3167 |       | 596 | 160 | 1.05 |
| 2500 RPM        |      |       |       |      |       |     | 75  | 1.10 |

DRIVEABILITY DEMERITS 29

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 111

1972 FORD TORI 302 4000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

017170 MILES

HAS: EMC, EVC, PCV

RUN NUMBER 8

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0351

09/17/73 BAR:24.87 DB:72 WB:56  
REL.HUM:38.5% NOX COR: .910

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 17.17 | 303.5 | 481.3 | 1.00 | 8.79  |     |     |      |
| COLD STABILIZED | 4.23  | 96.7  | 587.1 | 2.09 | 11.84 |     |     |      |
| HOT TRANSIENT   | 4.42  | 84.0  | 515.9 | 3.78 | 13.45 |     |     |      |
| 1975 COMPOSITE  | 6.99  | 136.5 | 545.2 | 2.33 | 11.39 |     |     |      |
| IDLE KEYMODE    | 4720  | 8.22  |       | 55   |       | 608 | 320 | 8.90 |
| LOW CR. KEYMODE | 2961  | 1.41  |       | 1294 |       | 515 | 220 | 1.45 |
| HI. CR. KEYMODE | 3119  | 2.54  |       | 2491 |       | 555 | 230 | 1.75 |
| 2500 RPM        |       |       |       |      |       |     | 140 | 2.10 |

DRIVEABILITY DEMERITS 11

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0365

09/18/73 BAR:24.73 DB:81 WB:55  
REL.HUM:18.6% NOX COR: .842

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.85 | 248.1 | 462.5 | 1.16 | 10.04 |     |     |      |
| COLD STABILIZED | 4.24  | 94.6  | 554.7 | 1.89 | 12.42 |     |     |      |
| HOT TRANSIENT   | 4.77  | 85.3  | 467.6 | 2.95 | 14.44 |     |     |      |
| 1975 COMPOSITE  | 5.77  | 124.2 | 511.2 | 2.03 | 12.29 |     |     |      |
| IDLE KEYMODE    | 5174  | 9.06  |       | 47   |       | 542 | 415 | 9.10 |
| LOW CR. KEYMODE | 2866  | 1.82  |       | 947  |       | 395 | 255 | 1.85 |
| HI. CR. KEYMODE | 2993  | 2.30  |       | 2059 |       | 436 | 265 | 2.25 |
| 2500 RPM        |       |       |       |      |       |     | 140 | 2.35 |

DRIVEABILITY DEMERITS 41

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 112

1970 FORD MUST 351 3500DBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 051330 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 9

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0257

09/07/73 BAR:24.59 DB:77 WB:56  
REL.HUM:27.9% NOX COR: .882

|                 | HC   | CO   | CO2   | NOX   | MPG   | LHC | SHC  | SCO  |
|-----------------|------|------|-------|-------|-------|-----|------|------|
| COLD TRANSIENT  | 7.83 | 84.1 | 589.8 | 10.42 | 11.93 |     |      |      |
| COLD STABILIZED | 4.78 | 89.1 | 566.4 | 6.03  | 12.34 |     |      |      |
| HOT TRANSIENT   | 5.20 | 59.4 | 589.7 | 10.24 | 12.73 |     |      |      |
| 1975 COMPOSITE  | 5.53 | 79.8 | 577.8 | 8.11  | 12.36 |     |      |      |
| IDLE KEYMODE    | 3824 | 5.46 |       | 158   |       | 479 | 350  | 5.65 |
| LOW CR. KEYMODE | 2757 | 0.82 |       | 4106  |       | 352 | 230  | 0.85 |
| HI. CR. KEYMODE | 3528 | 0.96 |       | 3959  |       | 528 | 330  | 1.05 |
| 2500 RPM        |      |      |       |       |       |     | **** | 1.10 |

DRIVEABILITY DEMERITS 64

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0263

09/08/73 BAR:24.58 DB:73 WB:60  
REL.HUM:49.3% NOX COR: .989

|                 | HC    | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|-------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 8.72  | 77.2 | 509.1 | 8.31 | 13.53 |     |      |      |
| COLD STABILIZED | 6.22  | 93.5 | 459.8 | 5.06 | 14.22 |     |      |      |
| HOT TRANSIENT   | 6.70  | 56.4 | 439.6 | 7.63 | 16.21 |     |      |      |
| 1975 COMPOSITE  | 6.87  | 79.8 | 464.5 | 6.45 | 14.56 |     |      |      |
| IDLE KEYMODE    | 10909 | 8.10 |       | 36   |       | 835 | 490  | 7.80 |
| LOW CR. KEYMODE | 4449  | 0.73 |       | 2553 |       | 731 | 580  | 0.27 |
| HI. CR. KEYMODE | 2864  | 1.06 |       | 4161 |       | 451 | 180  | 0.33 |
| 2500 RPM        |       |      |       |      |       |     | **** | 0.47 |

DRIVEABILITY DEMERITS 133

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 112

1970 FORD MUST 351 3500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 051330 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 9

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0273

09/10/73 BAR:24.79 DB:73 WB:62  
REL.HUM:56.1% NOX COR:1.034

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 7.78 | 84.4 | 523.1 | 7.20 | 13.09 |     |      |      |
| COLD STABILIZED | 4.36 | 71.1 | 462.3 | 4.64 | 15.15 |     |      |      |
| HOT TRANSIENT   | 6.82 | 43.4 | 423.5 | 7.51 | 17.35 |     |      |      |
| 1975 COMPOSITE  | 5.76 | 66.2 | 464.3 | 5.97 | 15.19 |     |      |      |
| IDLE KEYMODE    | 4891 | 6.76 |       | 72   |       | 770 | 365  | 6.30 |
| LOW CR. KEYMODE | 4239 | 0.88 |       | 3175 |       | 799 | 425  | 0.80 |
| HI. CR. KEYMODE | 2713 | 1.19 |       | 4106 |       | 475 | 162  | 1.30 |
| 2500 RPM        |      |      |       |      |       |     | **** | 1.25 |

DRIVEABILITY DEMERITS 100

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0288

09/11/73 BAR:24.74 DB:77 WB:62  
REL.HUM:45.2% NOX COR:1.002

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 7.11 | 91.1 | 503.8 | 6.42 | 13.30 |     |      |      |
| COLD STABILIZED | 4.77 | 90.9 | 471.0 | 3.99 | 14.16 |     |      |      |
| HOT TRANSIENT   | 4.41 | 52.1 | 449.3 | 6.94 | 16.34 |     |      |      |
| 1975 COMPOSITE  | 5.16 | 80.2 | 471.8 | 5.32 | 14.50 |     |      |      |
| IDLE KEYMODE    | 5074 | 8.13 |       | 69   |       | 512 | 320  | 8.10 |
| LOW CR. KEYMODE | 2505 | 0.64 |       | 2813 |       | 345 | 165  | 0.60 |
| HI. CR. KEYMODE | 2469 | 1.21 |       | 3768 |       | 334 | 150  | 1.05 |
| 2500 RPM        |      |      |       |      |       |     | **** | 0.90 |

DRIVEABILITY DEMERITS 31

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 112

1970 FCRD MUST 351 3500LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

051330 MILES

HAS: EMC, NO EVC, PCV

RUN NUMBER 9

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0302

09/12/73 BAR:24.68 DB:70 WB:60  
REL.HUM:58.2% NOX COR:1.010

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 5.44 | 64.2 | 526.4 | 6.44 | 13.82 |     |      |      |
| COLD STABILIZED | 2.47 | 28.2 | 501.5 | 2.55 | 16.09 |     |      |      |
| HOT TRANSIENT   | 2.82 | 28.7 | 505.2 | 7.72 | 15.93 |     |      |      |
| 1975 COMPOSITE  | 3.19 | 35.9 | 507.7 | 4.80 | 15.51 |     |      |      |
| IDLE KEYMODE    | 3276 | 0.47 |       | 75   |       | 579 | 210  | 0.47 |
| LOW CR. KEYMODE | 3071 | 0.52 |       | 2738 |       | 537 | 120  | 0.60 |
| HI. CR. KEYMODE | 2043 | 1.39 |       | 3648 |       | 518 | 110  | 0.90 |
| 2500 RPM        |      |      |       |      |       |     | 1620 | 4.00 |

DRIVEABILITY DEMERITS 25

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0319

09/13/73 BAR:24.63 DB:79 WB:56  
REL.HUM:24.3% NOX COR:.870

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 5.52 | 66.7 | 516.1 | 5.92 | 13.95 |     |      |      |
| COLD STABILIZED | 3.22 | 52.8 | 491.3 | 3.50 | 15.24 |     |      |      |
| HOT TRANSIENT   | 3.61 | 35.5 | 456.7 | 6.13 | 17.00 |     |      |      |
| 1975 COMPOSITE  | 3.81 | 50.9 | 486.9 | 4.74 | 15.39 |     |      |      |
| IDLE KEYMODE    | 3865 | 5.03 |       | 98   |       | 530 | 235  | 4.10 |
| LOW CR. KEYMODE | 2569 | 0.77 |       | 2758 |       | 464 | 145  | 0.75 |
| HI. CR. KEYMODE | 2500 | 1.11 |       | 3681 |       | 438 | 135  | 1.05 |
| 2500 RPM        |      |      |       |      |       |     | **** | 1.10 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
1990 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 112

1970 FORD MUST 351 3500LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

051330 MILES

HAS: EMC, NO EVC, PCV

RUN NUMBER 9

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0330

09/14/73 BAR:24.79 DB:72 WB:59  
REL.HUM:48.6% NOX COR: .970

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.25 | 71.2 | 554.2 | 4.91 | 13.10 |     |     |      |
| COLD STABILIZED | 2.70 | 48.9 | 568.5 | 3.03 | 13.62 |     |     |      |
| HOT TRANSIENT   | 2.73 | 29.1 | 478.5 | 5.62 | 16.71 |     |     |      |
| 1975 COMPOSITE  | 3.03 | 48.1 | 540.6 | 4.14 | 14.24 |     |     |      |
| IDLE KEYMODE    | 2324 | 2.36 |       | 90   |       | 484 | 140 | 2.50 |
| LOW CR. KEYMODE | 2219 | 0.84 |       | 1948 |       | 589 | 130 | 0.70 |
| HI. CR. KEYMODE | 2115 | 0.97 |       | 3365 |       | 476 | 135 | 0.85 |
| 2500 RPM        |      |      |       |      |       |     | 800 | 1.25 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0352

09/17/73 BAR:24.87 DB:71 WB:55  
REL.HUM:37.8% NOX COR: .899

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.38 | 83.1 | 593.7 | 3.38 | 12.01 |     |     |      |
| COLD STABILIZED | 2.96 | 50.9 | 581.8 | 2.35 | 13.27 |     |     |      |
| HOT TRANSIENT   | 3.40 | 38.3 | 514.6 | 4.20 | 15.21 |     |     |      |
| 1975 COMPOSITE  | 3.59 | 54.1 | 565.6 | 3.08 | 13.45 |     |     |      |
| IDLE KEYMODE    | 3532 | 4.00 |       | 64   |       | 448 | 180 | 3.90 |
| LOW CR. KEYMODE | 2459 | 1.00 |       | 1532 |       | 464 | 155 | 0.95 |
| HI. CR. KEYMODE | 2386 | 1.09 |       | 2160 |       | 441 | 145 | 1.10 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 0.90 |

DRIVEABILITY DEMERITS 20

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 113

1969 CHEV STAW 350 4000LBS                      TUNE UP EVALUATION  
8CYL 4BBL AUTOMATIC              075334 MILES              HAS: EMC, NO EVC, PCV

RUN NUMBER 10

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP.              RPM EXP.              TIMING EXP.              CHOKE EXP.

TEST NO:C0264

09/08/73    BAR:24.58    DB:80    WB:62  
REL.HUM:38.4%    NOX COR: .982

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.82 | 117.1 | 556.3 | 5.45 | 11.45 |     |     |      |
| COLD STABILIZED | 5.34  | 65.4  | 524.6 | 3.92 | 13.82 |     |     |      |
| HOT TRANSIENT   | 4.69  | 49.0  | 480.0 | 6.54 | 15.58 |     |     |      |
| 1975 COMPOSITE  | 6.52  | 71.7  | 518.8 | 4.97 | 13.66 |     |     |      |
| IDLE KEYMODE    | 3543  | 2.22  |       | 117  |       | 543 | 285 | 1.95 |
| LOW CR. KEYMODE | 3738  | 1.59  |       | 1916 |       | 595 | 305 | 1.65 |
| HI. CR. KEYMODE | 3157  | 0.89  |       | 3234 |       | 454 | 195 | 0.78 |
| 2500 RPM        |       |       |       |      |       |     | 480 | 2.15 |

DRIVEABILITY DEMERITS 38

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC.              RPM SPEC.              TIMING EXP.              CHOKE EXP.

TEST NO:C0274

09/10/73    BAR:24.85    DB:76    WB:63  
REL.HUM:50.9%    NOX COR:1.034

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.52 | 113.3 | 552.8 | 5.56 | 11.80 |     |     |      |
| COLD STABILIZED | 5.02 | 62.5  | 535.4 | 3.89 | 13.71 |     |     |      |
| HOT TRANSIENT   | 4.72 | 47.6  | 482.9 | 6.45 | 15.55 |     |     |      |
| 1975 COMPOSITE  | 5.46 | 69.0  | 524.5 | 4.95 | 13.70 |     |     |      |
| IDLE KEYMODE    | 3701 | 2.34  |       | 112  |       | 543 | 260 | 2.30 |
| LOW CR. KEYMODE | 3866 | 2.01  |       | 1830 |       | 693 | 270 | 2.00 |
| HI. CR. KEYMODE | 3166 | 0.66  |       | 3643 |       | 544 | 170 | 0.58 |
| 2500 RPM        |      |       |       |      |       |     | 350 | 2.25 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 113

1969 CHEV STAW 350 4000LBS TUNE UP EVALUATION  
8CYL 4BBL AUTOMATIC 075334 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 10

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0289

09/11/73 BAR:24.77 DB:76 WB:61  
REL.HUM:44.5% NOX COR: .986

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.21 | 96.4 | 662.2 | 3.51 | 10.73 |     |     |      |
| COLD STABILIZED | 3.24 | 35.1 | 700.2 | 2.41 | 11.63 |     |     |      |
| HOT TRANSIENT   | 3.51 | 37.1 | 591.9 | 3.64 | 13.47 |     |     |      |
| 1975 COMPOSITE  | 3.73 | 48.5 | 662.2 | 2.98 | 11.87 |     |     |      |
| IDLE KEYMODE    | 2146 | 0.42 |       | 219  |       | 292 | 115 | 0.50 |
| LOW CR. KEYMODE | 2126 | 0.72 |       | 1073 |       | 288 | 93  | 0.72 |
| HI. CR. KEYMODE | 2256 | 0.90 |       | 2368 |       | 308 | 97  | 0.78 |
| 2500 RPM        |      |      |       |      |       |     | 45  | 1.20 |

DRIVEABILITY DEMERITS 14

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0303

09/12/73 BAR:24.68 DB:80 WB:61  
REL.HUM:35.5% NOX COR: .958

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.49 | 105.7 | 598.3 | 4.10 | 11.39 |     |     |      |
| COLD STABILIZED | 3.88 | 36.7  | 643.9 | 3.51 | 12.48 |     |     |      |
| HOT TRANSIENT   | 3.56 | 33.7  | 549.1 | 5.41 | 14.52 |     |     |      |
| 1975 COMPOSITE  | 4.13 | 50.3  | 608.1 | 4.16 | 12.72 |     |     |      |
| IDLE KEYMODE    | 2470 | 0.34  |       | 441  |       | 413 | 140 | 0.35 |
| LOW CR. KEYMODE | 2918 | 1.18  |       | 1555 |       | 437 | 145 | 1.15 |
| HI. CR. KEYMODE | 2257 | 0.56  |       | 2508 |       | 353 | 90  | 0.60 |
| 2500 RPM        |      |       |       |      |       |     | 80  | 1.75 |

DRIVEABILITY DEMERITS 7

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 113

1969 CHEV STAW 350 4000LBS TUNE UP EVALUATION  
8CYL 4BBL AUTOMATIC 075334 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 10

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0321

09/13/73 BAR:24.63 DB:78 WB:56  
REL.HUM:26.0% NOX COR: .876

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.25 | 105.8 | 568.5 | 3.64 | 11.85 |     |     |      |
| COLD STABILIZED | 4.16 | 72.2  | 538.0 | 2.45 | 13.40 |     |     |      |
| HOT TRANSIENT   | 3.60 | 57.6  | 478.3 | 3.91 | 15.35 |     |     |      |
| 1975 COMPOSITE  | 4.23 | 75.2  | 527.8 | 3.10 | 13.51 |     |     |      |
| IDLE KEYMODE    | 3569 | 3.77  |       | 89   |       | 539 | 225 | 3.60 |
| LOW CR. KEYMODE | 3337 | 2.00  |       | 1316 |       | 570 | 210 | 1.85 |
| HI. CR. KEYMODE | 2688 | 0.61  |       | 2578 |       | 471 | 130 | 0.65 |
| 2500 RPM        |      |       |       |      |       |     | 130 | 2.60 |

DRIVEABILITY DEMERITS 51

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0331

09/14/73 BAR:24.80 DB:78 WB:57  
REL.HUM:28.5% NOX COR: .891

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.62 | 98.6 | 556.2 | 5.28 | 12.22 |     |     |      |
| COLD STABILIZED | 4.54 | 69.4 | 561.5 | 3.72 | 13.00 |     |     |      |
| HOT TRANSIENT   | 3.64 | 47.0 | 473.6 | 5.70 | 15.93 |     |     |      |
| 1975 COMPOSITE  | 4.51 | 69.3 | 536.0 | 4.60 | 13.51 |     |     |      |
| IDLE KEYMODE    | 3225 | 2.61 |       | 77   |       | 443 | 150 | 2.40 |
| LOW CR. KEYMODE | 3215 | 2.00 |       | 1842 |       | 537 | 240 | 1.90 |
| HI. CR. KEYMODE | 2736 | 0.88 |       | 3605 |       | 437 | 150 | 0.55 |
| 2500 RPM        |      |      |       |      |       |     | 350 | 2.30 |

DRIVEABILITY DEMERITS 13

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 113

1969 CHEV STAW 350 4000LBS TUNE UP EVALUATION  
8CYL 4BBL AUTOMATIC 075334 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 10

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0360

09/18/73 BAR:24.78 DB:75 WB:52  
REL.HUM:20.6% NOX COR: .831

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.24 | 96.3 | 609.4 | 5.67 | 11.46 |     |     |      |
| COLD STABILIZED | 4.14 | 45.5 | 609.8 | 4.21 | 12.83 |     |     |      |
| HOT TRANSIENT   | 3.74 | 36.2 | 538.0 | 6.88 | 14.68 |     |     |      |
| 1975 COMPOSITE  | 4.26 | 53.6 | 589.8 | 5.26 | 12.96 |     |     |      |
| IDLE KEYMODE    | 2696 | 1.09 |       | 340  |       | 346 | 255 | 1.10 |
| LOW CR. KEYMODE | 2890 | 1.05 |       | 2323 |       | 397 | 278 | 1.13 |
| HI. CR. KEYMODE | 2388 | 0.50 |       | 3705 |       | 347 | 185 | 0.50 |
| 2500 RPM        |      |      |       |      |       |     | 460 | 1.70 |

DRIVEABILITY DEMERITS 14

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0380

09/19/73 BAR:24.68 DB:83 WB:56  
REL.HUM:18.0% NOX COR: .847

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.06 | 97.2 | 558.0 | 3.95 | 12.25 |     |     |      |
| COLD STABILIZED | 4.10 | 68.3 | 551.1 | 2.66 | 13.26 |     |     |      |
| HOT TRANSIENT   | 4.13 | 49.1 | 491.1 | 4.40 | 15.32 |     |     |      |
| 1975 COMPOSITE  | 4.31 | 69.0 | 535.9 | 3.41 | 13.54 |     |     |      |
| IDLE KEYMODE    | 3426 | 3.65 |       | 85   |       | 415 | 320 | 4.10 |
| LOW CR. KEYMODE | 3081 | 1.52 |       | 1516 |       | 404 | 265 | 1.55 |
| HI. CR. KEYMODE | 2545 | 0.53 |       | 2642 |       | 333 | 170 | 0.60 |
| 2500 RPM        |      |      |       |      |       |     | 165 | 2.40 |

DRIVEABILITY DEMERITS 20

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 115

1967 CHEV IMPA 283 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 064860 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 11

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0276

09/10/73 BAR:24.90 DB:79 WB:66  
REL.HUM:52.5% NOX COR:1.095

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 18.79 | 248.0 | 481.7 | 1.27 | 9.57  |      |     |      |
| COLD STABILIZED | 13.11 | 197.0 | 487.4 | 0.96 | 10.62 |      |     |      |
| HOT TRANSIENT   | 11.66 | 175.7 | 456.7 | 1.84 | 11.57 |      |     |      |
| 1975 COMPOSITE  | 13.89 | 201.8 | 477.7 | 1.27 | 10.62 |      |     |      |
| IDLE KEYMODE    | 6420  | 2.18  |       | 231  |       | 1350 | 860 | 2.10 |
| LOW CR. KEYMODE | 6242  | 5.02  |       | 517  |       | 1202 | 670 | 4.60 |
| HI. CR. KEYMODE | 7296  | 9.30  |       | 180  |       | 1205 | 630 | 9.00 |
| 2500 RPM        |       |       |       |      |       |      | 590 | 6.10 |

DRIVEABILITY DEMERITS 149

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0290

09/11/73 BAR:24.73 DB:70 WB:60  
REL.HUM:58.2% NOX COR:1.009

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 17.68 | 232.7 | 474.2 | 1.41 | 9.94  |     |     |      |
| COLD STABILIZED | 11.78 | 201.0 | 454.1 | 0.74 | 11.03 |     |     |      |
| HOT TRANSIENT   | 10.59 | 174.2 | 423.7 | 1.39 | 12.18 |     |     |      |
| 1975 COMPOSITE  | 12.68 | 200.2 | 449.9 | 1.06 | 11.07 |     |     |      |
| IDLE KEYMODE    | 5929  | 3.04  |       | 139  |       | 770 | 650 | 2.80 |
| LOW CR. KEYMODE | 6142  | 4.39  |       | 609  |       | 756 | 630 | 4.10 |
| HI. CR. KEYMODE | 7555  | 9.34  |       | 163  |       | 834 | 690 | 8.90 |
| 2500 RPM        |       |       |       |      |       |     | 510 | 6.20 |

DRIVEABILITY DEMERITS 30

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 115

1967 CHEV IMPA 283 4000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

064860 MILES

HAS: NO EMC, NO EVC, PCV

RUN NUMBER 11

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0305

09/12/73 BAR:24.67 DB:73 WB:61  
REL.HUM:52.7% NOX COR:1.011

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 20.49 | 216.2 | 430.1 | 2.46 | 10.67 |      |      |      |
| COLD STABILIZED | 20.51 | 209.6 | 400.8 | 1.30 | 11.20 |      |      |      |
| HOT TRANSIENT   | 13.79 | 162.5 | 399.4 | 2.72 | 12.75 |      |      |      |
| 1975 COMPOSITE  | 18.64 | 197.9 | 406.6 | 1.93 | 11.47 |      |      |      |
| IDLE KEYMODE    | 24349 | 8.97  |       | 63   |       | 2086 | 1500 | 7.90 |
| LOW CR. KEYMODE | 6524  | 3.32  |       | 1087 |       | 1137 | 570  | 3.00 |
| HI. CR. KEYMODE | 8022  | 8.36  |       | 437  |       | 1247 | 640  | 7.80 |
| 2500 RPM        |       |       |       |      |       |      | 520  | 4.50 |

DRIVEABILITY DEMERITS 28

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0320

09/13/73 BAR:24.63 DB:79 WB:56  
REL.HUM:24.3% NOX COR: .870

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 18.54 | 223.2 | 439.4 | 1.82 | 10.49 |      |     |      |
| COLD STABILIZED | 12.82 | 180.2 | 416.4 | 1.04 | 12.03 |      |     |      |
| HOT TRANSIENT   | 10.49 | 150.0 | 404.3 | 2.08 | 13.23 |      |     |      |
| 1975 COMPOSITE  | 13.37 | 180.8 | 417.9 | 1.49 | 11.97 |      |     |      |
| IDLE KEYMODE    | 6008  | 4.05  |       | 254  |       | 883  | 630 | 3.60 |
| LOW CR. KEYMODE | 5908  | 4.44  |       | 891  |       | 1018 | 600 | 4.00 |
| HI. CR. KEYMODE | 7576  | 9.07  |       | 246  |       | 1165 | 680 | 8.10 |
| 2500 RPM        |       |       |       |      |       |      | 470 | 5.80 |

DRIVEABILITY DEMERITS 22

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 115

1967 CHEV IMPA 283 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 064860 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 11

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0332

09/14/73 BAR:24.80 DB:81 WB:59  
REL.HUM:28.3% NOX COR: .908

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 20.27 | 240.6 | 419.6 | 1.54 | 10.33 |      |     |      |
| COLD STABILIZED | 15.19 | 214.8 | 381.7 | 0.81 | 11.60 |      |     |      |
| HOT TRANSIENT   | 11.56 | 166.1 | 363.7 | 1.73 | 13.47 |      |     |      |
| 1975 COMPOSITE  | 15.24 | 206.7 | 384.7 | 1.22 | 11.76 |      |     |      |
| IDLE KEYMODE    | 11245 | 7.88  |       | 52   |       | 1234 | 250 | 7.50 |
| LOW CR. KEYMODE | 5919  | 4.83  |       | 763  |       | 967  | 185 | 4.20 |
| HI. CR. KEYMODE | 7552  | 8.92  |       | 232  |       | 1118 | 210 | 8.10 |
| 2500 RPM        |       |       |       |      |       |      | 560 | 6.50 |

DRIVEABILITY DEMERITS 86

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0350

09/17/73 BAR:24.87 DB:72 WB:57  
REL.HUM:41.8% NOX COR: .928

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 21.40 | 234.0 | 436.9 | 1.87 | 10.21 |      |      |      |
| COLD STABILIZED | 17.21 | 215.1 | 376.2 | 0.91 | 11.58 |      |      |      |
| HOT TRANSIENT   | 13.10 | 174.0 | 397.7 | 2.10 | 12.50 |      |      |      |
| 1975 COMPOSITE  | 16.94 | 207.7 | 394.9 | 1.44 | 11.50 |      |      |      |
| IDLE KEYMODE    | 16808 | 8.19  |       | 37   |       | 1345 | 1050 | 8.60 |
| LOW CR. KEYMODE | 6221  | 4.75  |       | 770  |       | 1048 | 730  | 4.60 |
| HI. CR. KEYMODE | 7888  | 9.24  |       | 238  |       | 1201 | 880  | 9.00 |
| 2500 RPM        |       |       |       |      |       |      | 650  | 7.00 |

DRIVEABILITY DEMERITS 26

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 115

1967 CHEV IMPA 283 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 064860 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 11

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0366

09/18/73 BAR:24.72 DB:82 WB:56  
REL.HUM:19.4% NOX COR: .852

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 17.31 | 210.7 | 436.4 | 1.92 | 10.83 |      |     |      |
| COLD STABILIZED | 11.20 | 136.8 | 424.5 | 1.32 | 13.20 |      |     |      |
| HOT TRANSIENT   | 9.70  | 136.5 | 406.4 | 2.20 | 13.67 |      |     |      |
| 1975 COMPOSITE  | 12.06 | 152.1 | 422.0 | 1.69 | 12.74 |      |     |      |
| IDLE KEYMODE    | 6472  | 1.44  |       | 487  |       | 1032 | 690 | 1.05 |
| LOW CR. KEYMODE | 6200  | 4.32  |       | 938  |       | 957  | 790 | 3.90 |
| HI. CR. KEYMODE | 7199  | 8.70  |       | 255  |       | 1228 | 930 | 8.40 |
| 2500 RPM        |       |       |       |      |       |      | 700 | 5.40 |

DRIVEABILITY DEMERITS 12

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0381

09/19/73 BAR:24.68 DB:81 WB:55  
REL.HUM:18.6% NOX COR: .843

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 17.44 | 213.4 | 425.0 | 1.58 | 10.92 |      |      |      |
| COLD STABILIZED | 12.68 | 190.9 | 387.7 | 0.80 | 12.24 |      |      |      |
| HOT TRANSIENT   | 10.79 | 161.8 | 392.4 | 1.64 | 13.08 |      |      |      |
| 1975 COMPOSITE  | 13.15 | 187.5 | 396.8 | 1.19 | 12.15 |      |      |      |
| IDLE KEYMODE    | 7437  | 7.00  |       | 80   |       | 1164 | 1160 | 7.20 |
| LOW CR. KEYMODE | 5826  | 4.30  |       | 746  |       | 906  | 880  | 4.40 |
| HI. CR. KEYMODE | 6913  | 8.52  |       | 231  |       | 1052 | 940  | 9.10 |
| 2500 RPM        |       |       |       |      |       |      | 740  | 6.70 |

DRIVEABILITY DEMERITS 27

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 123

1964 CHEV IMP 283 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 085172 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 12

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0265

09/08/73 BAR:24.58 DB:76 WB:61  
REL.HUM:44.7% NOX COR: .989

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 12.21 | 213.3 | 440.8 | 1.17 | 10.93 |     |     |      |
| COLD STABILIZED | 8.76  | 181.2 | 429.0 | 0.67 | 12.01 |     |     |      |
| HOT TRANSIENT   | 7.89  | 175.8 | 377.9 | 1.00 | 13.11 |     |     |      |
| 1975 COMPOSITE  | 9.24  | 186.4 | 417.3 | 0.87 | 12.05 |     |     |      |
| IDLE KEYMODE    | 5115  | 5.61  |       | 55   |       | 780 | 460 | 5.10 |
| LOW CR. KEYMODE | 4870  | 6.21  |       | 269  |       | 686 | 390 | 5.60 |
| HI. CR. KEYMODE | 4393  | 5.93  |       | 516  |       | 580 | 310 | 5.30 |
| 2500 RPM        |       |       |       |      |       |     | 360 | 5.00 |

DRIVEABILITY DEMERITS 15

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0275

09/10/73 BAR:24.90 DB:79 WB:64  
REL.HUM:46.3% NOX\$COR:1.035

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 12.02 | 217.0 | 461.7 | 1.17 | 10.59 |     |     |      |
| COLD STABILIZED | 7.91  | 189.0 | 448.4 | 0.67 | 11.56 |     |     |      |
| HOT TRANSIENT   | 7.14  | 177.7 | 395.0 | 1.03 | 12.78 |     |     |      |
| 1975 COMPOSITE  | 8.56  | 191.7 | 436.3 | 0.88 | 11.65 |     |     |      |
| IDLE KEYMODE    | 5590  | 4.20  |       | 69   |       | 761 | 320 | 3.95 |
| LOW CR. KEYMODE | 4823  | 6.46  |       | 234  |       | 699 | 345 | 5.50 |
| HI. CR. KEYMODE | 4469  | 6.10  |       | 462  |       | 619 | 280 | 5.20 |
| 2500 RPM        |       |       |       |      |       |     | 420 | 6.60 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 123

1964 CHEV IMP 283 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 085172 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 12

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0292

09/11/73 BAR:24.65 DB:77 WB:60  
REL.HUM:39.2% NOX COR: .958

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 12.43 | 198.1 | 416.7 | 1.93 | 11.61 |     |     |      |
| COLD STABILIZED | 9.30  | 153.9 | 408.6 | 1.23 | 13.10 |     |     |      |
| HOT TRANSIENT   | 8.67  | 180.6 | 377.1 | 1.69 | 12.94 |     |     |      |
| 1975 COMPOSITE  | 9.78  | 170.6 | 401.6 | 1.50 | 12.72 |     |     |      |
| IDLE KEYMODE    | 6645  | 6.47  |       | 60   |       | 957 | 660 | 6.20 |
| LOW CR. KEYMODE | 5468  | 6.53  |       | 462  |       | 775 | 460 | 6.10 |
| HI. CR. KEYMODE | 4911  | 5.74  |       | 968  |       | 660 | 360 | 5.20 |
| 2500 RPM        |       |       |       |      |       |     | 510 | 5.00 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0304

09/12/73 BAR:24.67 DB:72 WB:56  
REL.HUM:38.7% NOX COR: .912

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|------|-----|-------|
| COLD TRANSIENT  | 14.10 | 206.6 | 401.6 | 1.66 | 11.55 |      |     |       |
| COLD STABILIZED | 13.20 | 193.7 | 378.2 | 1.03 | 12.29 |      |     |       |
| HOT TRANSIENT   | 10.70 | 176.6 | 353.1 | 1.50 | 13.40 |      |     |       |
| 1975 COMPOSITE  | 12.69 | 191.6 | 376.1 | 1.29 | 12.42 |      |     |       |
| IDLE KEYMODE    | 31489 | 9.95  |       | 11   |       | 1295 | 800 | ***** |
| LOW CR. KEYMODE | 5425  | 6.99  |       | 426  |       | 852  | 355 | 6.50  |
| HI. CR. KEYMODE | 4875  | 6.26  |       | 776  |       | 725  | 285 | 5.70  |
| 2500 RPM        |       |       |       |      |       |      | 410 | 6.30  |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 123

1964 CHEV IMP 283 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 085172 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 12

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0322

09/13/73 BAR:24.64 DB:81 WB:60  
REL.HUM:30.9% NOX COR: .930

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 11.70 | 204.9 | 414.9 | 1.62 | 11.51 |     |     |       |
| COLD STABILIZED | 10.32 | 194.9 | 395.9 | 1.02 | 12.12 |     |     |       |
| HOT TRANSIENT   | 8.34  | 169.2 | 356.1 | 1.54 | 13.73 |     |     |       |
| 1975 COMPOSITE  | 10.06 | 189.9 | 388.8 | 1.29 | 12.39 |     |     |       |
| IDLE KEYMODE    | 10436 | 10.76 |       | 25   |       | 898 | 640 | ***** |
| LOW CR. KEYMODE | 4854  | 6.40  |       | 520  |       | 730 | 390 | 6.10  |
| HI. CR. KEYMODE | 4373  | 5.68  |       | 1001 |       | 654 | 325 | 5.20  |
| 2500 RPM        |       |       |       |      |       |     | 480 | 6.70  |

DRIVEABILITY DEMERITS 3

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0334

09/14/73 BAR:24.63 DB:80 WB:56  
REL.HUM:22.6% NOX COR: .864

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|------|-----|-------|
| COLD TRANSIENT  | 12.02 | 195.2 | 401.7 | 1.45 | 11.93 |      |     |       |
| COLD STABILIZED | 11.58 | 181.5 | 376.2 | 0.94 | 12.76 |      |     |       |
| HOT TRANSIENT   | 8.96  | 171.2 | 347.7 | 1.29 | 13.80 |      |     |       |
| 1975 COMPOSITE  | 10.94 | 181.5 | 373.7 | 1.14 | 12.85 |      |     |       |
| IDLE KEYMODE    | 29104 | 9.87  |       | 11   |       | 1025 | 940 | ***** |
| LOW CR. KEYMODE | 4896  | 6.77  |       | 433  |       | 675  | 470 | 6.45  |
| HI. CR. KEYMODE | 4388  | 6.13  |       | 783  |       | 583  | 375 | 5.60  |
| 2500 RPM        |       |       |       |      |       |      | 590 | 7.10  |

DRIVEABILITY DEMERITS 12

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 123

1964 CHEV IMP 283 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 085172 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 12

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0349

09/17/73 BAR:24.92 DB:73 WB:56  
REL.HUM:36.1% NOX COR: .903

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.14 | 211.5 | 481.7 | 1.92 | 10.49 |     |     |      |
| COLD STABILIZED | 6.90  | 140.6 | 483.3 | 1.28 | 12.26 |     |     |      |
| HOT TRANSIENT   | 6.86  | 153.3 | 429.2 | 1.88 | 12.87 |     |     |      |
| 1975 COMPOSITE  | 7.78  | 159.0 | 468.0 | 1.58 | 12.00 |     |     |      |
| IDLE KEYMODE    | 3854  | 1.77  |       | 191  |       | 620 | 405 | 1.90 |
| LOW CR. KEYMODE | 4587  | 6.20  |       | 456  |       | 688 | 450 | 6.70 |
| HI. CR. KEYMODE | 4011  | 5.25  |       | 948  |       | 624 | 335 | 5.20 |
| 2500 RPM        |       |       |       |      |       |     | 440 | 6.10 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0361

09/18/73 BAR:24.78 DB:77 WB:53  
REL.HUM:19.8% NOX COR: .834

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.48 | 210.8 | 435.6 | 1.20 | 11.13 |     |     |      |
| COLD STABILIZED | 8.48  | 200.9 | 412.5 | 0.66 | 11.80 |     |     |      |
| HOT TRANSIENT   | 7.91  | 182.5 | 373.0 | 1.04 | 13.00 |     |     |      |
| 1975 COMPOSITE  | 8.74  | 197.8 | 406.4 | 0.88 | 11.96 |     |     |      |
| IDLE KEYMODE    | 8043  | 9.50  |       | 31   |       | 879 | 580 | 8.70 |
| LOW CR. KEYMODE | 4426  | 6.54  |       | 329  |       | 614 | 410 | 6.60 |
| HI. CR. KEYMODE | 4071  | 5.86  |       | 669  |       | 571 | 350 | 5.70 |
| 2500 RPM        |       |       |       |      |       |     | 420 | 5.60 |

DRIVEABILITY DEMERITS 20

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 147

1970 CHEV IMPA 350 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 080466 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 14

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0388

09/20/73 BAR:24.70 DB:71 WB:55  
REL.HUM:37.9% NOX COR: .901

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.54 | 155.9 | 472.7 | 2.84 | 11.91 |     |     |      |
| COLD STABILIZED | 5.60 | 69.9  | 543.3 | 3.48 | 13.27 |     |     |      |
| HOT TRANSIENT   | 5.38 | 74.9  | 443.2 | 2.95 | 15.41 |     |     |      |
| 1975 COMPOSITE  | 6.36 | 89.3  | 500.8 | 3.20 | 13.47 |     |     |      |
| IDLE KEYMODE    | 4157 | 3.43  |       | 90   |       | 420 | 270 | 3.50 |
| LOW CR. KEYMODE | 3318 | 0.16  |       | 2075 |       | 444 | 240 | 0.20 |
| HI. CR. KEYMODE | 3704 | 3.13  |       | 1828 |       | 507 | 310 | 3.20 |
| 2500 RPM        |      |       |       |      |       |     | 100 | 0.50 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0402

09/21/73 BAR:24.65 DB:76 WB:57  
REL.HUM:32.6% NOX COR: .905

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.89 | 182.1 | 530.5 | 1.76 | 10.50 |     |     |      |
| COLD STABILIZED | 4.60 | 72.2  | 621.7 | 2.18 | 11.88 |     |     |      |
| HOT TRANSIENT   | 4.49 | 78.1  | 481.5 | 2.16 | 14.40 |     |     |      |
| 1975 COMPOSITE  | 5.68 | 96.8  | 563.7 | 2.08 | 12.14 |     |     |      |
| IDLE KEYMODE    | 3770 | 3.89  |       | 111  |       | 414 | 165 | 3.80 |
| LOW CR. KEYMODE | 2657 | 0.53  |       | 1176 |       | 378 | 150 | 0.70 |
| HI. CR. KEYMODE | 3765 | 4.41  |       | 989  |       | 485 | 230 | 4.70 |
| 2500 RPM        |      |       |       |      |       |     | 70  | 1.00 |

DRIVEABILITY DEMERITS 9

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 147

1970 CHEV IMPA 350 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 080466 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 14

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0421

09/24/73 BAR:24.49 DB:70 WB:48  
REL.HUM:18.6% NOX COR: .808

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.45 | 185.9 | 469.9 | 2.26 | 11.16 |     |     |      |
| COLD STABILIZED | 5.30  | 72.8  | 516.2 | 2.89 | 13.76 |     |     |      |
| HOT TRANSIENT   | 4.69  | 70.5  | 431.1 | 3.02 | 16.00 |     |     |      |
| 1975 COMPOSITE  | 6.41  | 95.8  | 482.9 | 2.79 | 13.62 |     |     |      |
| IDLE KEYMODE    | 4765  | 4.02  |       | 150  |       | 569 | 470 | 3.80 |
| LOW CR. KEYMODE | 3320  | 0.26  |       | 2321 |       | 399 | 260 | 0.25 |
| HI. CR. KEYMODE | 3890  | 3.73  |       | 1603 |       | 450 | 300 | 3.40 |
| 2500 RPM        |       |       |       |      |       |     | 100 | 0.40 |

DRIVEABILITY DEMERITS 1

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:CA433

09/25/73 BAR:24.48 DB:74 WB:54  
REL.HUM:28.3% NOX COR: .869

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.17 | 186.5 | 506.7 | 2.30 | 10.70 |     |     |      |
| COLD STABILIZED | 3.98  | 24.5  | 602.1 | 3.26 | 13.63 |     |     |      |
| HOT TRANSIENT   | 4.48  | 63.6  | 489.3 | 3.16 | 14.76 |     |     |      |
| 1975 COMPOSITE  | 5.41  | 69.3  | 550.8 | 3.03 | 13.16 |     |     |      |
| IDLE KEYMODE    | 2155  | 0.47  |       | 140  |       | 323 | 110 | 0.45 |
| LOW CR. KEYMODE | 2966  | 0.16  |       | 1791 |       | 438 | 170 | 0.18 |
| HI. CR. KEYMODE | 3483  | 2.84  |       | 1899 |       | 490 | 260 | 2.90 |
| 2500 RPM        |       |       |       |      |       |     | 120 | 1.25 |

DRIVEABILITY DEMERITS 19

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 147

1970 CHEV IMPA 350 4000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

080466 MILES

HAS: EMC, NO EVC, PCV

RUN NUMBER 14

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0448

09/26/73 BAR:24.84 DB:69 WB:52  
REL.HUM:32.8% NOX COR: .864

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.78 | 191.7 | 615.1 | 1.88 | 9.40  |     |     |      |
| COLD STABILIZED | 3.17 | 29.5  | 737.8 | 2.46 | 11.21 |     |     |      |
| HOT TRANSIENT   | 4.29 | 51.8  | 542.1 | 2.39 | 13.98 |     |     |      |
| 1975 COMPOSITE  | 4.87 | 69.6  | 657.9 | 2.32 | 11.38 |     |     |      |
| IDLE KEYMODE    | 2332 | 0.16  |       | 470  |       | 380 | 130 | 0.15 |
| LOW CR. KEYMODE | 2057 | 0.29  |       | 1098 |       | 367 | 120 | 0.30 |
| HI. CR. KEYMODE | 3125 | 2.69  |       | 1527 |       | 446 | 200 | 2.70 |
| 2500 RPM        |      |       |       |      |       |     | 78  | 0.70 |

DRIVEABILITY DEMERITS 8

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0462

09/28/73 BAR:25.05 DB:70 WB:54  
REL.HUM:36.8% NOX COR: .886

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.94 | 207.8 | 522.6 | 1.98 | 10.08 |     |     |      |
| COLD STABILIZED | 3.22  | 24.6  | 606.7 | 2.41 | 13.58 |     |     |      |
| HOT TRANSIENT   | 3.64  | 46.9  | 485.0 | 2.81 | 15.62 |     |     |      |
| 1975 COMPOSITE  | 4.95  | 69.2  | 555.4 | 2.43 | 13.10 |     |     |      |
| IDLE KEYMODE    | 3101  | 0.12  |       | 194  |       | 658 | 185 | 0.15 |
| LOW CR. KEYMODE | 2399  | 0.21  |       | 1312 |       | 554 | 115 | 0.25 |
| HI. CR. KEYMODE | 3162  | 2.69  |       | 1818 |       | 583 | 180 | 0.75 |
| 2500 RPM        |       |       |       |      |       |     | 65  | 0.30 |

DRIVEABILITY DEMERITS 8

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 147

1970 CHEV IMPA 350 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 080466 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 14

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0471

09/28/73 BAR:24.85 DB:71 WB:55  
REL.HUM:37.8% NOX COR: .899

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.15 | 170.3 | 561.4 | 1.43 | 10.42 |     |     |      |
| COLD STABILIZED | 3.17 | 37.2  | 704.9 | 2.00 | 11.52 |     |     |      |
| HOT TRANSIENT   | 3.38 | 57.7  | 535.1 | 1.93 | 13.99 |     |     |      |
| 1975 COMPOSITE  | 4.27 | 70.7  | 627.8 | 1.86 | 11.84 |     |     |      |
| IDLE KEYMODE    | 2264 | 0.16  |       | 278  |       | 364 | 115 | 0.13 |
| LOW CR. KEYMODE | 2082 | 0.33  |       | 882  |       | 402 | 85  | 0.23 |
| HI. CR. KEYMODE | 3146 | 2.25  |       | 1275 |       | 504 | 160 | 2.20 |
| 2500 RPM        |      |       |       |      |       |     | 45  | 0.80 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0493

10/01/73 BAR:24.70 DB:76 WB:54  
REL.HUM:24.2% NOX COR: .855

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.93 | 221.2 | 499.8 | 1.21 | 10.06 |     |     |      |
| COLD STABILIZED | 3.77  | 55.5  | 595.9 | 1.85 | 12.81 |     |     |      |
| HOT TRANSIENT   | 3.95  | 68.6  | 478.5 | 1.98 | 14.87 |     |     |      |
| 1975 COMPOSITE  | 5.53  | 93.8  | 543.2 | 1.75 | 12.58 |     |     |      |
| IDLE KEYMODE    | 3557  | 2.17  |       | 146  |       | 539 | 280 | 2.00 |
| LOW CR. KEYMODE | 2272  | 0.24  |       | 822  |       | 446 | 120 | 0.25 |
| HI. CR. KEYMODE | 3101  | 2.49  |       | 1366 |       | 501 | 200 | 2.50 |
| 2500 RPM        |       |       |       |      |       |     | 62  | 0.50 |

DRIVEABILITY DEMERITS 9

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 149

1966 FORD GALA 352 4000LBS TUNE UP EVALUATION  
8CYL 4BBL AUTOMATIC 078274 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 13

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0377

09/19/73 BAR:24.68 DB:82 WB:55  
REL.HUM:17.2% NOX COR: .837

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.00 | 74.3 | 534.4 | 6.04 | 13.23 |     |     |      |
| COLD STABILIZED | 5.70 | 34.3 | 560.3 | 6.68 | 14.08 |     |     |      |
| HOT TRANSIENT   | 5.26 | 42.9 | 488.3 | 6.25 | 15.56 |     |     |      |
| 1975 COMPOSITE  | 5.85 | 45.1 | 534.9 | 6.43 | 14.27 |     |     |      |
| IDLE KEYMODE    | 3955 | 0.20 |       | 1216 |       | 550 | 425 | 0.25 |
| LOW CR. KEYMODE | 4064 | 1.19 |       | 2822 |       | 558 | 410 | 1.10 |
| HI. CR. KEYMODE | 3762 | 1.46 |       | 3086 |       | 493 | 325 | 1.30 |
| 2500 RPM        |      |      |       |      |       |     | 200 | 1.75 |

DRIVEABILITY DEMERITS 15

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0390

09/20/73 BAR:24.69 DB:77 WB:56  
REL.HUM:27.8% NOX COR: .881

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.29 | 81.5 | 523.2 | 5.81 | 13.15 |     |     |      |
| COLD STABILIZED | 5.63 | 41.5 | 525.8 | 6.26 | 14.63 |     |     |      |
| HOT TRANSIENT   | 5.21 | 49.0 | 476.6 | 6.11 | 15.62 |     |     |      |
| 1975 COMPOSITE  | 6.07 | 52.0 | 511.6 | 6.12 | 14.54 |     |     |      |
| IDLE KEYMODE    | 3784 | 0.13 |       | 431  |       | 503 | 320 | 0.15 |
| LOW CR. KEYMODE | 3708 | 1.13 |       | 2735 |       | 481 | 335 | 1.15 |
| HI. CR. KEYMODE | 3325 | 1.12 |       | 3137 |       | 409 | 265 | 1.20 |
| 2500 RPM        |      |      |       |      |       |     | 180 | 1.70 |

DRIVEABILITY DEMERITS 13

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 149

1966 FORD GALA 352 4000LBS

TUNE UP EVALUATION

8CYL 4BBL AUTOMATIC

078274 MILES

HAS: NO EMC, NO EVC, PCV

RUN NUMBER 13

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0404

09/21/73 BAR:24.65 DB:80 WB:56  
REL.HUM:22.6% NOX COR: .864

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.56 | 102.5 | 505.8 | 5.06 | 12.66 |     |     |      |
| COLD STABILIZED | 8.53  | 104.2 | 476.3 | 4.72 | 13.35 |     |     |      |
| HOT TRANSIENT   | 6.13  | 70.9  | 444.8 | 5.12 | 15.47 |     |     |      |
| 1975 COMPOSITE  | 8.50  | 94.6  | 473.7 | 4.90 | 13.72 |     |     |      |
| IDLE KEYMODE    | 5390  | 5.71  |       | 84   |       | 608 | 410 | 5.40 |
| LOW CR. KEYMODE | 3846  | 1.07  |       | 2566 |       | 459 | 300 | 1.10 |
| HI. CR. KEYMODE | 3470  | 1.25  |       | 2995 |       | 395 | 235 | 1.30 |
| 2500 RPM        |       |       |       |      |       |     | 190 | 1.70 |

DRIVEABILITY DEMERITS 10

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0422

09/24/73 BAR:24.49 DB:75 WB:52  
REL.HUM:20.8% NOX COR: .834

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.06 | 92.2 | 534.3 | 3.96 | 12.70 |     |     |      |
| COLD STABILIZED | 4.58 | 33.1 | 557.0 | 5.05 | 14.28 |     |     |      |
| HOT TRANSIENT   | 4.58 | 44.6 | 470.2 | 4.87 | 16.05 |     |     |      |
| 1975 COMPOSITE  | 5.10 | 48.6 | 528.1 | 4.77 | 14.35 |     |     |      |
| IDLE KEYMODE    | 4075 | 0.25 |       | 146  |       | 655 | 240 | 0.25 |
| LOW CR. KEYMODE | 3644 | 1.22 |       | 2287 |       | 507 | 300 | 1.40 |
| HI. CR. KEYMODE | 3301 | 1.27 |       | 2568 |       | 442 | 240 | 1.40 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 1.40 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 149

1966 FORD GALA 352 4000LBS TUNE UP EVALUATION  
8CYL 4BBL AUTOMATIC 078274 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 13

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0434

09/25/73 BAR:24.48 DB:75 WB:55  
REL.HUM:29.1% NOX COR: .879

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.67 | 130.0 | 496.4 | 3.95 | 12.12 |     |     |      |
| COLD STABILIZED | 7.36  | 103.9 | 486.6 | 4.61 | 13.23 |     |     |      |
| HOT TRANSIENT   | 6.47  | 80.0  | 442.0 | 4.58 | 15.14 |     |     |      |
| 1975 COMPOSITE  | 7.80  | 102.7 | 476.3 | 4.46 | 13.45 |     |     |      |
| IDLE KEYMODE    | 5732  | 4.98  |       | 72   |       | 571 | 400 | 4.80 |
| LOW CR. KEYMODE | 3728  | 0.98  |       | 2690 |       | 527 | 320 | 0.90 |
| HI. CR. KEYMODE | 3402  | 1.19  |       | 3111 |       | 467 | 265 | 1.30 |
| 2500 RPM        |       |       |       |      |       |     | 170 | 1.70 |

DRIVEABILITY DEMERITS 9

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0449

09/26/73 BAR:24.85 DB:70 WB:52  
REL.HUM:30.5% NOX COR: .858

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 7.74 | 79.9 | 543.9 | 4.15 | 12.83 |      |     |      |
| COLD STABILIZED | 5.17 | 51.7 | 512.4 | 3.93 | 14.60 |      |     |      |
| HOT TRANSIENT   | 5.08 | 54.3 | 455.8 | 4.03 | 15.99 |      |     |      |
| 1975 COMPOSITE  | 5.68 | 58.3 | 503.3 | 4.00 | 14.53 |      |     |      |
| IDLE KEYMODE    | 8349 | 0.16 |       | 178  |       | 1639 | 900 | 0.11 |
| LOW CR. KEYMODE | 3943 | 1.45 |       | 2116 |       | 614  | 330 | 1.40 |
| HI. CR. KEYMODE | 3426 | 1.27 |       | 2702 |       | 508  | 240 | 1.30 |
| 2500 RPM        |      |      |       |      |       |      | 165 | 1.40 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 149

1966 FORD GALA 352 4000LBS TUNE UP EVALUATION  
8CYL 4BBL AUTOMATIC 078274 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 13

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0463

09/27/73 BAR:25.05 DB:70 WB:54  
REL.HUM:36.8% NOX COR: .886

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.27 | 105.5 | 522.4 | 4.16 | 12.36 |     |     |      |
| COLD STABILIZED | 7.71  | 111.6 | 472.8 | 3.81 | 13.24 |     |     |      |
| HOT TRANSIENT   | 6.61  | 67.9  | 444.7 | 4.47 | 15.56 |     |     |      |
| 1975 COMPOSITE  | 7.94  | 98.2  | 475.4 | 4.06 | 13.60 |     |     |      |
| IDLE KEYMODE    | 4627  | 5.50  |       | 69   |       | 667 | 205 | 4.60 |
| LOW CR. KEYMODE | 3571  | 0.57  |       | 2371 |       | 674 | 240 | 0.55 |
| HI. CR. KEYMODE | 3312  | 1.12  |       | 2802 |       | 616 | 220 | 1.10 |
| 2500 RPM        |       |       |       |      |       |     | 140 | 1.20 |

DRIVEABILITY DEMERITS 8

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0472

09/28/73 BAR:24.85 DB:70 WB:55  
REL.HUM:40.3% NOX COR: .905

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 11.20 | 112.2 | 461.4 | 2.96 | 13.23 |      |     |      |
| COLD STABILIZED | 10.10 | 99.3  | 434.3 | 3.28 | 14.31 |      |     |      |
| HOT TRANSIENT   | 6.07  | 62.5  | 406.6 | 3.68 | 16.99 |      |     |      |
| 1975 COMPOSITE  | 9.21  | 91.8  | 432.3 | 3.32 | 14.71 |      |     |      |
| IDLE KEYMODE    | 9679  | 7.13  |       | 70   |       | 1191 | 320 | 4.00 |
| LOW CR. KEYMODE | 4123  | 1.18  |       | 2289 |       | 644  | 275 | 1.10 |
| HI. CR. KEYMODE | 3664  | 0.98  |       | 2813 |       | 550  | 210 | 0.80 |
| 2500 RPM        |       |       |       |      |       |      | 270 | 1.80 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 175

1972 CHEV NOVA 350 3500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 021117 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 15

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0474

09/28/73 BAR:24.85 DB:70 WB:55  
REL.HUM:40.3% NOX COR: .905

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.98 | 102.3 | 608.3 | 2.58 | 11.26 |     |     |      |
| COLD STABILIZED | 3.18 | 37.5  | 664.3 | 2.05 | 12.15 |     |     |      |
| HOT TRANSIENT   | 3.99 | 60.4  | 542.5 | 2.73 | 13.70 |     |     |      |
| 1975 COMPOSITE  | 4.20 | 57.4  | 618.8 | 2.35 | 12.33 |     |     |      |
| IDLE KEYMODE    | 2252 | 0.14  |       | 203  |       | 341 | 150 | 0.15 |
| LOW CR. KEYMODE | 3653 | 2.38  |       | 977  |       | 492 | 220 | 2.50 |
| HI. CR. KEYMODE | 3301 | 1.70  |       | 1549 |       | 440 | 145 | 1.60 |
| 2500 RPM        |      |       |       |      |       |     | 110 | 3.50 |

DRIVEABILITY DEMERITS 49

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0485

10/01/73 BAR:24.73 DB:70 WB:55  
REL.HUM:40.4% NOX COR: .907

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.57 | 92.7 | 555.2 | 4.05 | 12.29 |     |     |      |
| COLD STABILIZED | 4.49 | 35.9 | 578.3 | 3.12 | 13.72 |     |     |      |
| HOT TRANSIENT   | 4.67 | 56.3 | 482.2 | 4.03 | 15.21 |     |     |      |
| 1975 COMPOSITE  | 5.18 | 53.5 | 546.8 | 3.56 | 13.76 |     |     |      |
| IDLE KEYMODE    | 4070 | 0.89 |       | 308  |       | 488 | 275 | 0.85 |
| LOW CR. KEYMODE | 4365 | 2.73 |       | 1393 |       | 560 | 290 | 2.50 |
| HI. CR. KEYMODE | 3784 | 1.44 |       | 2502 |       | 474 | 200 | 1.40 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 1.50 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 175

1972 CHEV NOVA 350 3500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 021117 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 15

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0506

10/02/73 BAR:24.64 DB:78 WB:53  
REL.HUM:18.3% NOX COR: .830

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.69 | 76.2 | 611.5 | 3.09 | 11.94 |     |     |      |
| COLD STABILIZED | 3.30 | 32.7 | 692.3 | 2.33 | 11.81 |     |     |      |
| HOT TRANSIENT   | 3.65 | 45.9 | 531.9 | 2.94 | 14.46 |     |     |      |
| 1975 COMPOSITE  | 3.69 | 45.5 | 630.9 | 2.66 | 12.47 |     |     |      |
| IDLE KEYMODE    | 2743 | 0.33 |       | 556  |       | 389 | 170 | 0.70 |
| LOW CR. KEYMODE | 3971 | 3.69 |       | 837  |       | 568 | 320 | 3.70 |
| HI. CR. KEYMODE | 3506 | 2.57 |       | 1530 |       | 490 | 240 | 2.10 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 3.00 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0519

10/03/73 BAR:24.80 DB:70 WB:56  
REL.HUM:43.8% NOX COR: .924

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.74 | 81.2 | 586.4 | 3.45 | 12.16 |     |     |      |
| COLD STABILIZED | 3.72 | 37.7 | 558.0 | 2.14 | 14.16 |     |     |      |
| HOT TRANSIENT   | 4.03 | 46.9 | 462.8 | 3.28 | 16.21 |     |     |      |
| 1975 COMPOSITE  | 4.23 | 49.4 | 537.5 | 2.73 | 14.17 |     |     |      |
| IDLE KEYMODE    | 4398 | 0.90 |       | 147  |       | 531 | 200 | 0.80 |
| LOW CR. KEYMODE | 4672 | 2.50 |       | 1238 |       | 642 | 240 | 2.40 |
| HI. CR. KEYMODE | 3908 | 1.44 |       | 2249 |       | 562 | 160 | 1.15 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 2.50 |

DRIVEABILITY DEMERITS 8

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 175

1972 CHEV NOVA 350 3500LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

021117 MILES

HAS: EMC, NO EVC, PCV

RUN NUMBER 15

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0546

10/05/73 BAR:24.84 DB:72 WB:55  
REL.HUM:35.4% NOX COR: .893

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.64 | 124.9 | 595.0 | 2.58 | 10.92 |     |     |      |
| COLD STABILIZED | 3.65 | 41.5  | 653.9 | 2.15 | 12.19 |     |     |      |
| HOT TRANSIENT   | 4.17 | 59.7  | 532.5 | 2.88 | 13.93 |     |     |      |
| 1975 COMPOSITE  | 4.63 | 64.0  | 607.9 | 2.44 | 12.32 |     |     |      |
| IDLE KEYMODE    | 2922 | 1.00  |       | 290  |       | 520 | 175 | 1.00 |
| LOW CR. KEYMODE | 3825 | 3.00  |       | 836  |       | 664 | 250 | 3.10 |
| HI. CR. KEYMODE | 3235 | 1.53  |       | 1760 |       | 578 | 170 | 1.60 |
| 2500 RPM        |      |       |       |      |       |     | 80  | 2.80 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0560

10/08/73 BAR:24.45 DB:76 WB:52  
REL.HUM:19.2% NOX COR: .829

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.06 | 79.5 | 536.7 | 3.32 | 13.02 |     |     |      |
| COLD STABILIZED | 3.61 | 32.1 | 569.3 | 2.42 | 14.11 |     |     |      |
| HOT TRANSIENT   | 4.16 | 51.8 | 474.5 | 3.42 | 15.65 |     |     |      |
| 1975 COMPOSITE  | 4.49 | 47.5 | 536.2 | 2.89 | 14.25 |     |     |      |
| IDLE KEYMODE    | 2968 | 0.14 |       | 275  |       | 708 | 185 | 0.15 |
| LOW CR. KEYMODE | 3842 | 2.76 |       | 1250 |       | 715 | 245 | 2.70 |
| HI. CR. KEYMODE | 3302 | 1.53 |       | 2460 |       | 643 | 180 | 1.55 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 2.80 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 175

1972 CHEV NOVA 350 3500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 021117 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 15

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0578

10/09/73 BAR:24.40 DB:76 WB:55  
REL.HUM:27.2% NOX COR: .874

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.51 | 72.7 | 557.3 | 3.42 | 12.92 |     |     |      |
| COLD STABILIZED | 3.68 | 33.4 | 611.0 | 2.37 | 13.19 |     |     |      |
| HOT TRANSIENT   | 3.96 | 52.7 | 507.4 | 3.34 | 14.78 |     |     |      |
| 1975 COMPOSITE  | 4.14 | 47.0 | 571.0 | 2.86 | 13.54 |     |     |      |
| IDLE KEYMODE    | 3116 | 0.30 |       | 394  |       | 692 | 160 | 0.30 |
| LOW CR. KEYMODE | 3961 | 3.33 |       | 984  |       | 752 | 230 | 3.10 |
| HI. CR. KEYMODE | 3496 | 1.91 |       | 2123 |       | 694 | 165 | 1.75 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 4.90 |

DRIVEABILITY DEMERITS 15

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0596

10/10/73 BAR:24.68 DB:72 WB:52  
REL.HUM:26.3% NOX COR: .848

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.50 | 129.9 | 536.7 | 2.21 | 11.70 |     |     |      |
| COLD STABILIZED | 4.06 | 74.7  | 561.0 | 1.70 | 12.88 |     |     |      |
| HOT TRANSIENT   | 4.03 | 67.0  | 474.4 | 2.61 | 15.03 |     |     |      |
| 1975 COMPOSITE  | 4.56 | 84.1  | 531.9 | 2.06 | 13.13 |     |     |      |
| IDLE KEYMODE    | 4254 | 4.30  |       | 83   |       | 653 | 210 | 3.40 |
| LOW CR. KEYMODE | 3621 | 2.88  |       | 934  |       | 643 | 160 | 2.50 |
| HI. CR. KEYMODE | 3240 | 1.65  |       | 1748 |       | 580 | 110 | 1.40 |
| 2500 RPM        |      |       |       |      |       |     | 85  | 2.50 |

DRIVEABILITY DEMERITS 20

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 179

1973 CHEV NOVA 307 3500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 017115 MILES HAS: EMC, EVC, PCV

RUN NUMBER 20

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0504 10/02/73 BAR:24.66 DB:79 WB:54  
REL.HUM:19.2% NOX COR: .839

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.11 | 85.8 | 590.5 | 1.96 | 12.01 |     |     |      |
| COLD STABILIZED | 2.85 | 50.1 | 583.8 | 1.72 | 13.26 |     |     |      |
| HOT TRANSIENT   | 2.67 | 58.1 | 495.5 | 1.78 | 14.96 |     |     |      |
| 1975 COMPOSITE  | 3.27 | 59.8 | 560.7 | 1.79 | 13.39 |     |     |      |
| IDLE KEYMODE    | 1787 | 1.51 |       | 54   |       | 317 | 59  | 1.30 |
| LOW CR. KEYMODE | 3481 | 2.06 |       | 548  |       | 524 | 180 | 1.80 |
| HI. CR. KEYMODE | 1972 | 1.71 |       | 935  |       | 360 | 95  | 1.70 |
| 2500 RPM        |      |      |       |      |       |     | 65  | 0.35 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0523 10/03/73 BAR:24.81 DB:72 WB:55  
REL.HUM:35.4% NOX COR: .893

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.87 | 93.5 | 646.9 | 2.17 | 11.01 |     |     |      |
| COLD STABILIZED | 2.76 | 46.1 | 617.5 | 1.74 | 12.75 |     |     |      |
| HOT TRANSIENT   | 2.80 | 57.6 | 512.3 | 1.95 | 14.56 |     |     |      |
| 1975 COMPOSITE  | 3.21 | 59.2 | 594.4 | 1.89 | 12.77 |     |     |      |
| IDLE KEYMODE    | 3218 | 3.17 |       | 126  |       | 725 | 120 | 2.50 |
| LOW CR. KEYMODE | 3005 | 1.51 |       | 679  |       | 679 | 90  | 1.30 |
| HI. CR. KEYMODE | 1813 | 2.53 |       | 618  |       | 569 | 60  | 2.40 |
| 2500 RPM        |      |      |       |      |       |     | 20  | 0.37 |

DRIVEABILITY DEMERITS 22

AUTOMOTIVE TESTING LABORATORIES, INC.  
1990 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 179

1973 CHEV NOVA 307 3500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 017115 MILES HAS: EMC, EVC, PCV

RUN NUMBER 20

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0538

10/04/73 BAR:24.93 DB:70 WB:50  
REL.HUM:24.2% NOX COR: .830

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.65 | 66.3 | 828.8 | 2.65 | 9.43  |     |     |      |
| COLD STABILIZED | 2.13 | 41.5 | 728.2 | 1.52 | 11.13 |     |     |      |
| HOT TRANSIENT   | 2.96 | 55.0 | 514.5 | 2.38 | 14.59 |     |     |      |
| 1975 COMPOSITE  | 2.68 | 50.4 | 690.0 | 2.00 | 11.45 |     |     |      |
| IDLE KEYMODE    | 3638 | 3.53 |       | 134  |       | 855 | 170 | 2.70 |
| LOW CR. KEYMODE | 3468 | 1.46 |       | 932  |       | 858 | 150 | 1.10 |
| HI. CR. KEYMODE | 2066 | 2.14 |       | 767  |       | 681 | 80  | 2.00 |
| 2500 RPM        |      |      |       |      |       |     | 35  | 0.53 |

DRIVEABILITY DEMERITS 48

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0551

10/05/73 BAR:24.73 DB:74 WB:54  
REL.HUM:28.1% NOX COR: .866

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.67 | 61.8 | 524.9 | 3.39 | 13.92 |     |     |      |
| COLD STABILIZED | 5.08 | 41.0 | 493.3 | 2.75 | 15.52 |     |     |      |
| HOT TRANSIENT   | 4.21 | 50.9 | 420.8 | 2.91 | 17.32 |     |     |      |
| 1975 COMPOSITE  | 4.96 | 48.1 | 479.8 | 2.93 | 15.60 |     |     |      |
| IDLE KEYMODE    | 4547 | 4.82 |       | 34   |       | 785 | 200 | 4.00 |
| LOW CR. KEYMODE | 3484 | 1.45 |       | 713  |       | 856 | 170 | 0.90 |
| HI. CR. KEYMODE | 3294 | 3.34 |       | 958  |       | 761 | 135 | 2.60 |
| 2500 RPM        |      |      |       |      |       |     | 65  | 0.20 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 179

1973 CHEV NOVA 307 3500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 017115 MILES HAS: EMC, EVC, PCV

RUN NUMBER 20

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0564

10/08/73 BAR:24.48 DB:76 WB:51  
REL.HUM:16.6% NOX COR: .815

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.04 | 71.4 | 566.7 | 3.49 | 12.70 |     |     |      |
| COLD STABILIZED | 3.71 | 20.6 | 572.4 | 3.17 | 14.45 |     |     |      |
| HOT TRANSIENT   | 3.65 | 45.0 | 484.5 | 3.70 | 15.71 |     |     |      |
| 1975 COMPOSITE  | 4.39 | 38.0 | 546.8 | 3.38 | 14.36 |     |     |      |
| IDLE KEYMODE    | 3190 | 0.62 |       | 458  |       | 793 | 170 | 0.35 |
| LOW CR. KEYMODE | 3540 | 0.85 |       | 1969 |       | 777 | 165 | 0.60 |
| HI. CR. KEYMODE | 3260 | 1.97 |       | 1866 |       | 690 | 150 | 1.58 |
| 2500 RPM        |      |      |       |      |       |     | 50  | 0.38 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0580

10/09/73 BAR:24.46 DB:71 WB:53  
REL.HUM:31.7% NOX COR: .871

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.15 | 78.1 | 534.7 | 2.93 | 13.16 |     |     |      |
| COLD STABILIZED | 3.78 | 34.6 | 531.2 | 2.69 | 14.91 |     |     |      |
| HOT TRANSIENT   | 4.97 | 56.2 | 449.7 | 3.18 | 16.08 |     |     |      |
| 1975 COMPOSITE  | 4.61 | 49.7 | 509.3 | 2.88 | 14.80 |     |     |      |
| IDLE KEYMODE    | 4036 | 1.73 |       | 105  |       | 606 | 240 | 1.10 |
| LOW CR. KEYMODE | 3512 | 1.07 |       | 1431 |       | 605 | 190 | 0.90 |
| HI. CR. KEYMODE | 3207 | 3.16 |       | 1122 |       | 521 | 165 | 2.40 |
| 2500 RPM        |      |      |       |      |       |     | 100 | 0.55 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 179

1973 CHEV NOVA 307 3500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 017115 MILES HAS: EMC, EVC, PCV

RUN NUMBER 20

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0590

10/10/73 BAR:24.68 DB:75 WB:54  
REL.HUM:26.1% NOX COR: .861

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.61 | 87.5 | 614.3 | 2.27 | 11.57 |     |     |      |
| COLD STABILIZED | 2.81 | 24.8 | 587.5 | 2.29 | 14.01 |     |     |      |
| HOT TRANSIENT   | 3.14 | 52.6 | 512.8 | 2.43 | 14.71 |     |     |      |
| 1975 COMPOSITE  | 3.49 | 45.7 | 572.4 | 2.32 | 13.59 |     |     |      |
| IDLE KEYMODE    | 2891 | 0.62 |       | 94   |       | 432 | 140 | 0.35 |
| LOW CR. KEYMODE | 2502 | 1.00 |       | 1084 |       | 377 | 100 | 0.80 |
| HI. CR. KEYMODE | 1550 | 1.61 |       | 1103 |       | 307 | 60  | 1.25 |
| 2500 RPM        |      |      |       |      |       |     | 45  | 0.23 |

DRIVEABILITY DEMERITS 12

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0615

10/11/73 BAR:24.47 DB:74 WB:52  
REL.HUM:22.6% NOX COR: .839

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.19 | 122.4 | 630.4 | 1.84 | 10.53 |     |     |      |
| COLD STABILIZED | 2.96 | 51.1  | 593.8 | 1.84 | 13.03 |     |     |      |
| HOT TRANSIENT   | 2.80 | 59.9  | 533.5 | 2.09 | 13.99 |     |     |      |
| 1975 COMPOSITE  | 3.80 | 68.5  | 584.7 | 1.91 | 12.65 |     |     |      |
| IDLE KEYMODE    | 3560 | 3.03  |       | 87   |       | 424 | 175 | 1.60 |
| LOW CR. KEYMODE | 2567 | 1.08  |       | 1045 |       | 335 | 110 | 0.65 |
| HI. CR. KEYMODE | 1764 | 1.87  |       | 849  |       | 293 | 80  | 1.21 |
| 2500 RPM        |      |       |       |      |       |     | 65  | 0.17 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 180

1968 FORD GALA 302 4000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

076747 MILES

HAS: EMC, NO EVC, PCV

RUN NUMBER 19

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0486

10/01/73 BAR:24.72 DB:72 WB:54  
REL.HUM:32.3% NOX COR: .878

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.24 | 138.9 | 587.4 | 5.21 | 10.63 |     |     |      |
| COLD STABILIZED | 3.77  | 23.7  | 638.4 | 5.92 | 12.95 |     |     |      |
| HOT TRANSIENT   | 4.38  | 52.0  | 524.0 | 5.99 | 14.37 |     |     |      |
| 1975 COMPOSITE  | 5.29  | 55.7  | 596.0 | 5.79 | 12.72 |     |     |      |
| IDLE KEYMODE    | 3189  | 0.77  |       | 679  |       | 463 | 175 | 0.65 |
| LOW CR. KEYMODE | 2918  | 0.37  |       | 3653 |       | 486 | 115 | 0.45 |
| HI. CR. KEYMODE | 4178  | 7.23  |       | 481  |       | 631 | 220 | 6.80 |
| 2500 RPM        |       |       |       |      |       |     | 230 | 1.10 |

DRIVEABILITY DEMERITS 21

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0503

10/02/73 BAR:24.66 DB:79 WB:54  
REL.HUM:19.2% NOX COR: .839

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 9.68  | 101.7 | 535.2 | 4.89 | 12.27 |      |      |      |
| COLD STABILIZED | 16.41 | 24.2  | 503.4 | 4.90 | 15.01 |      |      |      |
| HOT TRANSIENT   | 9.92  | 39.3  | 442.7 | 5.53 | 16.62 |      |      |      |
| 1975 COMPOSITE  | 13.20 | 44.6  | 493.2 | 5.07 | 14.72 |      |      |      |
| IDLE KEYMODE    | 25758 | 1.39  |       | 220  |       | **** | **** | 1.00 |
| LOW CR. KEYMODE | 4219  | 0.28  |       | 1844 |       | 666  | 330  | 0.25 |
| HI. CR. KEYMODE | 3557  | 0.26  |       | 3962 |       | 560  | 265  | 0.32 |
| 2500 RPM        |       |       |       |      |       |      | 330  | 0.80 |

DRIVEABILITY DEMERITS 33

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 180

1968 FORD GALA 302 4000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

076747 MILES

HAS: EMC, NO EVC, PCV

RUN NUMBER 19

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0521

10/03/73 BAR:24.80 DB:71 WB:55  
REL.HUM:37.8% NOX COR: .900

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 5.42 | 64.6 | 614.8 | 6.67 | 12.14 |      |     |      |
| COLD STABILIZED | 7.01 | 24.5 | 604.8 | 5.67 | 13.38 |      |     |      |
| HOT TRANSIENT   | 6.14 | 39.8 | 500.6 | 6.13 | 15.29 |      |     |      |
| 1975 COMPOSITE  | 6.43 | 37.1 | 578.0 | 6.01 | 13.56 |      |     |      |
| IDLE KEYMODE    | 6940 | 1.24 |       | 648  |       | 1377 | 550 | 1.30 |
| LOW CR. KEYMODE | 3425 | 0.64 |       | 2582 |       | 545  | 170 | 0.60 |
| HI. CR. KEYMODE | 2955 | 0.42 |       | 3852 |       | 476  | 130 | 0.40 |
| 2500 RPM        |      |      |       |      |       |      | 100 | 1.10 |

DRIVEABILITY DEMERITS 23

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0536

10/04/73 BAR:24.94 DB:76 WB:55  
REL.HUM:26.8% NOX COR: .868

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 9.24  | 125.8 | 593.4 | 4.28 | 10.86 |      |      |      |
| COLD STABILIZED | 10.43 | 25.3  | 616.6 | 4.36 | 12.92 |      |      |      |
| HOT TRANSIENT   | 7.46  | 32.0  | 526.0 | 5.29 | 14.85 |      |      |      |
| 1975 COMPOSITE  | 9.36  | 48.2  | 586.6 | 4.60 | 12.87 |      |      |      |
| IDLE KEYMODE    | 12043 | 0.74  |       | 781  |       | 2539 | 1500 | 0.50 |
| LOW CR. KEYMODE | 3264  | 0.45  |       | 2075 |       | 617  | 190  | 0.40 |
| HI. CR. KEYMODE | 3371  | 3.04  |       | 1687 |       | 608  | 190  | 2.90 |
| 2500 RPM        |       |       |       |      |       |      | 520  | 0.80 |

DRIVEABILITY DEMERITS 62

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 180

1968 FORD GALA 302 4000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

076747 MILES

HAS: EMC, NO EVC, PCV

RUN NUMBER 19

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0547

10/05/73 BAR:24.83 DB:70 WB:54  
REL.HUM:37.0% NOX COR: .889

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.21 | 100.7 | 611.0 | 4.63 | 11.29 |     |     |      |
| COLD STABILIZED | 3.66 | 24.8  | 648.2 | 4.32 | 12.74 |     |     |      |
| HOT TRANSIENT   | 4.38 | 40.8  | 535.4 | 5.20 | 14.52 |     |     |      |
| 1975 COMPOSITE  | 4.39 | 45.1  | 609.1 | 4.63 | 12.84 |     |     |      |
| IDLE KEYMODE    | 3549 | 0.80  |       | 393  |       | 693 | 300 | 0.70 |
| LOW CR. KEYMODE | 2694 | 0.41  |       | 2398 |       | 574 | 140 | 0.40 |
| HI. CR. KEYMODE | 2914 | 2.26  |       | 2007 |       | 572 | 160 | 3.00 |
| 2500 RPM        |      |       |       |      |       |     | 70  | 0.90 |

DRIVEABILITY DEMERITS 58

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0576

10/09/73 BAR:24.40 DB:71 WB:53  
REL.HUM:31.8% NOX COR: .872

|                 | HC    | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|-------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 7.19  | 96.1 | 603.1 | 4.03 | 11.46 |     |      |      |
| COLD STABILIZED | 14.00 | 28.4 | 602.3 | 3.79 | 12.88 |     |      |      |
| HOT TRANSIENT   | 9.01  | 47.3 | 518.9 | 4.38 | 14.32 |     |      |      |
| 1975 COMPOSITE  | 11.19 | 47.8 | 579.3 | 4.00 | 12.91 |     |      |      |
| IDLE KEYMODE    | 18036 | 0.34 |       | 632  |       | 140 | 2000 | 0.20 |
| LOW CR. KEYMODE | 3963  | 0.45 |       | 2068 |       | 741 | 220  | 0.45 |
| HI. CR. KEYMODE | 4302  | 5.83 |       | 669  |       | 744 | 230  | 4.90 |
| 2500 RPM        |       |      |       |      |       |     | 130  | 1.05 |

DRIVEABILITY DEMERITS 30

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 180

1968 FORD GALA 302 4000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

076747 MILES

HAS: EMC, NO EVC, PCV

RUN NUMBER 19

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0561

10/08/73 BAR:24.46 DB:76 WB:52  
REL.HUM:19.2% NOX COR: .829

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 8.21 | 121.1 | 589.0 | 3.88 | 11.06 |      |     |      |
| COLD STABILIZED | 6.08 | 37.0  | 600.6 | 3.53 | 13.14 |      |     |      |
| HOT TRANSIENT   | 6.11 | 58.6  | 497.2 | 3.92 | 14.63 |      |     |      |
| 1975 COMPOSITE  | 6.53 | 60.6  | 569.5 | 3.71 | 13.00 |      |     |      |
| IDLE KEYMODE    | 8372 | 1.30  |       | 317  |       | 1981 | 240 | 0.95 |
| LOW CR. KEYMODE | 2912 | 0.78  |       | 2076 |       | 719  | 160 | 0.80 |
| HI. CR. KEYMODE | 3711 | 5.85  |       | 676  |       | 778  | 200 | 5.20 |
| 2500 RPM        |      |       |       |      |       |      | 110 | 1.30 |

DRIVEABILITY DEMERITS 12

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0599

10/10/73 BAR:24.66 DB:71 WB:52  
REL.HUM:28.4% NOX COR: .854

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 14.87 | 188.3 | 555.6 | 3.00 | 9.91  |     |     |      |
| COLD STABILIZED | 4.53  | 81.2  | 529.7 | 3.23 | 13.26 |     |     |      |
| HOT TRANSIENT   | 4.77  | 71.5  | 471.8 | 4.03 | 14.86 |     |     |      |
| 1975 COMPOSITE  | 6.76  | 100.9 | 519.1 | 3.41 | 12.74 |     |     |      |
| IDLE KEYMODE    | 4391  | 7.38  |       | 67   |       | 501 | 210 | 6.00 |
| LOW CR. KEYMODE | 2572  | 0.57  |       | 1861 |       | 441 | 110 | 0.50 |
| HI. CR. KEYMODE | 3585  | 6.02  |       | 604  |       | 526 | 150 | 5.10 |
| 2500 RPM        |       |       |       |      |       |     | 80  | 1.10 |

DRIVEABILITY DEMERITS 48

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 181

1968 CHEV NOVA 307 3000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 042449 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 18

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0487

10/01/73 BAR:24.74 DB:76 WB:55  
REL.HUM:26.9% NOX COR: .870

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.05 | 92.0 | 463.3 | 2.56 | 14.20 |     |     |      |
| COLD STABILIZED | 4.09 | 22.5 | 478.7 | 2.67 | 16.90 |     |     |      |
| HOT TRANSIENT   | 4.84 | 58.4 | 395.2 | 2.58 | 17.73 |     |     |      |
| 1975 COMPOSITE  | 4.71 | 47.0 | 452.3 | 2.62 | 16.46 |     |     |      |
| IDLE KEYMODE    | 4576 | 0.17 | \$    | 123  |       | 589 | 350 | 0.20 |
| LOW CR. KEYMODE | 4001 | 2.07 |       | 1524 |       | 550 | 360 | 2.00 |
| HI. CR. KEYMODE | 4008 | 3.44 |       | 1390 |       | 523 | 320 | 3.30 |
| 2500 RPM        |      |      |       |      |       |     | 275 | 2.60 |

DRIVEABILITY DEMERITS 19

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0505

10/02/73 BAR:24.67 DB:78 WB:53  
REL.HUM:18.3% NOX COR: .830

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.23 | 80.0 | 453.5 | 3.74 | 14.87 |     |     |      |
| COLD STABILIZED | 4.59 | 22.0 | 466.3 | 3.95 | 17.28 |     |     |      |
| HOT TRANSIENT   | 5.29 | 60.5 | 423.3 | 3.80 | 16.64 |     |     |      |
| 1975 COMPOSITE  | 5.13 | 44.8 | 451.7 | 3.87 | 16.54 |     |     |      |
| IDLE KEYMODE    | 4903 | 0.15 |       | 514  |       | 842 | 460 | 0.17 |
| LOW CR. KEYMODE | 4243 | 2.33 |       | 1984 |       | 692 | 410 | 2.50 |
| HI. CR. KEYMODE | 3975 | 3.44 |       | 1814 |       | 627 | 340 | 3.70 |
| 2500 RPM        |      |      |       |      |       |     | 270 | 2.20 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 181

1968 CHEV NOVA 307 3000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 042449 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 18

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0522

10/03/73 BAR:24.80 DB:73 WB:56  
REL.HUM:36.2% NOX COR: .904

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 5.68 | 81.8 | 459.0 | 2.83 | 14.71 |      |     |      |
| COLD STABILIZED | 4.12 | 28.8 | 484.1 | 2.65 | 16.42 |      |     |      |
| HOT TRANSIENT   | 4.41 | 53.7 | 382.2 | 2.53 | 18.54 |      |     |      |
| 1975 COMPOSITE  | 4.53 | 46.8 | 450.6 | 2.65 | 16.54 |      |     |      |
| IDLE KEYMODE    | 5431 | 0.32 |       | 146  |       | 1007 | 450 | 0.30 |
| LOW CR. KEYMODE | 4292 | 1.49 |       | 1300 |       | 874  | 230 | 1.40 |
| HI. CR. KEYMODE | 3905 | 2.95 |       | 1679 |       | 758  | 210 | 3.00 |
| 2500 RPM        |      |      |       |      |       |      | 160 | 2.50 |

DRIVEABILITY DEMERITS 9

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0537

10/04/73 BAR:24.94 DB:72 WB:54  
REL.HUM:32.2% NOX COR: .876

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.71 | 81.0 | 416.8 | 3.37 | 15.84 |     |     |      |
| COLD STABILIZED | 4.70 | 32.8 | 431.1 | 3.48 | 17.90 |     |     |      |
| HOT TRANSIENT   | 4.70 | 56.7 | 355.4 | 3.40 | 19.39 |     |     |      |
| 1975 COMPOSITE  | 4.91 | 49.5 | 407.1 | 3.43 | 17.80 |     |     |      |
| IDLE KEYMODE    | 4909 | 0.60 |       | 528  |       | 923 | 420 | 0.52 |
| LOW CR. KEYMODE | 4277 | 1.62 |       | 2351 |       | 828 | 355 | 1.70 |
| HI. CR. KEYMODE | 4052 | 3.15 |       | 2184 |       | 769 | 285 | 0.90 |
| 2500 RPM        |      |      |       |      |       |     | 230 | 0.70 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 181

1968 CHEV NOVA 307 3000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 042449 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 18

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO: C0550

10/05/73 BAR:24.82 DB:72 WB:53  
REL.HUM:29.2% NOX COR: .862

|                 | HC    | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|-------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 12.38 | 62.9 | 452.0 | 4.22 | 15.09 |     |      |      |
| COLD STABILIZED | 20.01 | 22.5 | 453.3 | 5.01 | 16.13 |     |      |      |
| HOT TRANSIENT   | 11.03 | 40.1 | 367.3 | 4.58 | 19.14 |     |      |      |
| 1975 COMPOSITE  | 15.92 | 35.8 | 429.2 | 4.72 | 16.62 |     |      |      |
| IDLE KEYMODE    | 4509  | 0.22 |       | 1217 |       | 884 | 370  | 0.20 |
| LOW CR. KEYMODE | 4263  | 2.23 |       | 1925 |       | 799 | 320  | 2.00 |
| HI. CR. KEYMODE | 3678  | 2.19 |       | 2504 |       | 721 | 230  | 2.00 |
| 2500 RPM        |       |      |       |      |       |     | 1400 | 2.40 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO: C0563

10/08/73 BAR:24.47 DB:77 WB:52  
REL.HUM:17.6% NOX COR: .823

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.21 | 97.4 | 416.5 | 2.97 | 15.11 |     |     |      |
| COLD STABILIZED | 5.15 | 60.2 | 424.8 | 2.73 | 16.62 |     |     |      |
| HOT TRANSIENT   | 4.76 | 68.5 | 362.4 | 3.08 | 18.35 |     |     |      |
| 1975 COMPOSITE  | 5.26 | 70.3 | 405.8 | 2.88 | 16.72 |     |     |      |
| IDLE KEYMODE    | 4860 | 2.60 |       | 368  |       | 843 | 440 | 2.45 |
| LOW CR. KEYMODE | 4097 | 2.71 |       | 1760 |       | 740 | 305 | 2.50 |
| HI. CR. KEYMODE | 3859 | 3.31 |       | 1921 |       | 701 | 245 | 3.10 |
| 2500 RPM        |      |      |       |      |       |     | 245 | 3.30 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 181

1968 CHEV NOVA 307 3000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

042449 MILES

HAS: EMC, NO EVC, PCV

RUN NUMBER 18

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0579

10/09/73 BAR:24.40 DB:71 WB:54  
REL.HUM:34.9% NOX COR: .888

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.22 | 115.2 | 414.7 | 1.90 | 14.47 |     |     |      |
| COLD STABILIZED | 5.01 | 87.6  | 431.6 | 1.63 | 15.22 |     |     |      |
| HOT TRANSIENT   | 4.98 | 87.6  | 371.4 | 2.08 | 16.97 |     |     |      |
| 1975 COMPOSITE  | 5.25 | 93.3  | 411.4 | 1.81 | 15.50 |     |     |      |
| IDLE KEYMODE    | 4642 | 4.51  |       | 156  |       | 788 | 340 | 4.10 |
| LOW CR. KEYMODE | 3983 | 3.10  |       | 1188 |       | 697 | 250 | 2.70 |
| HI. CR. KEYMODE | 3848 | 4.10  |       | 1203 |       | 668 | 215 | 3.95 |
| 2500 RPM        |      |       |       |      |       |     | 180 | 2.30 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0602

10/11/73 BAR:24.48 DB:70 WB:53  
REL.HUM:34.0% NOX COR: .877

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.67 | 120.1 | 445.9 | 2.42 | 13.58 |     |     |      |
| COLD STABILIZED | 5.56 | 100.0 | 438.1 | 1.70 | 14.53 |     |     |      |
| HOT TRANSIENT   | 5.02 | 97.5  | 385.3 | 2.37 | 16.06 |     |     |      |
| 1975 COMPOSITE  | 5.64 | 103.5 | 425.1 | 2.04 | 14.71 |     |     |      |
| IDLE KEYMODE    | 4946 | 6.09  |       | 85   |       | 625 | 295 | 5.55 |
| LOW CR. KEYMODE | 3670 | 2.96  |       | 1276 |       | 508 | 175 | 2.50 |
| HI. CR. KEYMODE | 3577 | 3.68  |       | 1375 |       | 483 | 155 | 3.20 |
| 2500 RPM        |      |       |       |      |       |     | 150 | 2.60 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 183

1971 CHEV STAW 400 4500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 021163 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 17

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0476

09/28/73 BAR:24.86 DB:71 WB:56  
REL.HUM:41.1% NOX COR: .916

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.04 | 207.5 | 605.2 | 2.31 | 9.25  |     |     |      |
| COLD STABILIZED | 3.40  | 37.6  | 673.1 | 3.04 | 11.99 |     |     |      |
| HOT TRANSIENT   | 3.76  | 73.2  | 565.6 | 3.25 | 12.86 |     |     |      |
| 1975 COMPOSITE  | 4.89  | 83.0  | 629.0 | 2.94 | 11.49 |     |     |      |
| IDLE KEYMODE    | 3544  | 0.15  |       | 122  |       | 508 | 210 | 0.13 |
| LOW CR. KEYMODE | 2216  | 0.38  |       | 1503 |       | 287 | 110 | 0.38 |
| HI. CR. KEYMODE | 3164  | 2.53  |       | 1663 |       | 353 | 150 | 2.70 |
| 2500 RPM        |       |       |       |      |       |     | 40  | 0.22 |

DRIVEABILITY DEMERITS 7

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0488

10/01/73 BAR:24.73 DB:77 WB:54  
REL.HUM:22.4% NOX COR: .849

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.11 | 207.8 | 585.0 | 3.17 | 9.41  |     |     |      |
| COLD STABILIZED | 5.34  | 85.6  | 629.3 | 3.81 | 11.41 |     |     |      |
| HOT TRANSIENT   | 7.48  | 138.7 | 556.0 | 3.71 | 11.17 |     |     |      |
| 1975 COMPOSITE  | 7.14  | 125.9 | 599.7 | 3.65 | 10.86 |     |     |      |
| IDLE KEYMODE    | 4438  | 3.83  |       | 172  |       | 649 | 410 | 4.00 |
| LOW CR. KEYMODE | 3097  | 0.89  |       | 2040 |       | 483 | 215 | 0.90 |
| HI. CR. KEYMODE | 3223  | 2.49  |       | 1853 |       | 476 | 220 | 2.50 |
| 2500 RPM        |       |       |       |      |       |     | 85  | 0.42 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 183

1971 CHEV STAW 400 4500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 021163 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 17

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0520

10/03/73 BAR:24.80 DB:70 WB:56  
REL.HUM:43.8% NOX COR: .924

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.39 | 174.9 | 602.1 | 3.69 | 9.86  |     |     |      |
| COLD STABILIZED | 3.72 | 28.9  | 652.9 | 4.74 | 12.54 |     |     |      |
| HOT TRANSIENT   | 4.73 | 71.6  | 532.7 | 4.41 | 13.49 |     |     |      |
| 1975 COMPOSITE  | 4.98 | 71.3  | 609.0 | 4.43 | 12.09 |     |     |      |
| IDLE KEYMODE    | 3561 | 0.15  |       | 358  |       | 593 | 170 | 0.13 |
| LOW CR. KEYMODE | 3277 | 0.44  |       | 2258 |       | 557 | 125 | 0.40 |
| HI. CR. KEYMODE | 3597 | 3.18  |       | 1734 |       | 596 | 145 | 3.00 |
| 2500 RPM        |      |       |       |      |       |     | 60  | 1.10 |

DRIVEABILITY DEMERITS 1

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0535

10/04/73 BAR:24.94 DB:75 WB:55  
REL.HUM:28.7% NOX COR: .874

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 14.39 | 222.3 | 668.9 | 2.59 | 8.37  |     |     |      |
| COLD STABILIZED | 3.42  | 48.2  | 761.8 | 2.80 | 10.50 |     |     |      |
| HOT TRANSIENT   | 3.79  | 84.1  | 590.6 | 2.80 | 12.12 |     |     |      |
| 1975 COMPOSITE  | 5.82  | 94.6  | 694.9 | 2.76 | 10.33 |     |     |      |
| IDLE KEYMODE    | 2823  | 0.50  |       | 411  |       | 609 | 140 | 0.60 |
| LOW CR. KEYMODE | 2630  | 1.33  |       | 1160 |       | 537 | 100 | 0.90 |
| HI. CR. KEYMODE | 3099  | 3.05  |       | 1338 |       | 580 | 125 | 2.90 |
| 2500 RPM        |       |       |       |      |       |     | 100 | 1.30 |

DRIVEABILITY DEMERITS 14

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 183

1971 CHEV STAW 400 4500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 021163 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 17

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0549

10/05/73 BAR:24.82 DB:72 WB:53  
REL.HUM:29.2% NOX COR: .862

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.03 | 164.5 | 623.3 | 3.89 | 9.82  |     |     |      |
| COLD STABILIZED | 3.51 | 30.3  | 723.2 | 4.68 | 11.39 |     |     |      |
| HOT TRANSIENT   | 4.14 | 64.9  | 570.8 | 4.49 | 12.98 |     |     |      |
| 1975 COMPOSITE  | 4.63 | 68.0  | 660.0 | 4.46 | 11.40 |     |     |      |
| IDLE KEYMODE    | 2507 | 0.24  |       | 627  |       | 565 | 155 | 0.25 |
| LOW CR. KEYMODE | 2399 | 0.58  |       | 2149 |       | 538 | 125 | 0.50 |
| HI. CR. KEYMODE | 2995 | 2.94  |       | 1801 |       | 545 | 150 | 2.90 |
| 2500 RPM        |      |       |       |      |       |     | 50  | 0.80 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0562

10/08/73 BAR:24.46 DB:74 WB:52  
REL.HUM:22.6% NOX COR: .839

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.97 | 224.4 | 628.1 | 2.00 | 8.74  |     |     |      |
| COLD STABILIZED | 3.44  | 69.6  | 707.7 | 2.20 | 10.76 |     |     |      |
| HOT TRANSIENT   | 4.04  | 110.0 | 564.4 | 2.24 | 11.87 |     |     |      |
| 1975 COMPOSITE  | 5.39  | 113.2 | 651.3 | 2.17 | 10.53 |     |     |      |
| IDLE KEYMODE    | 2930  | 1.60  |       | 201  |       | 554 | 160 | 1.40 |
| LOW CR. KEYMODE | 2935  | 4.15  |       | 664  |       | 544 | 120 | 3.60 |
| HI. CR. KEYMODE | 2924  | 3.95  |       | 980  |       | 544 | 125 | 3.70 |
| 2500 RPM        |       |       |       |      |       |     | 55  | 2.00 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 183

1971 CHEV STAW 400 4500LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 021163 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 17

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0577

10/09/73 BAR:24.40 DB:73 WB:55  
REL.HUM:33.4% NOX COR: .892

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.18 | 128.7 | 595.8 | 3.43 | 10.89 |     |     |      |
| COLD STABILIZED | 4.04 | 64.4  | 643.5 | 3.62 | 11.76 |     |     |      |
| HOT TRANSIENT   | 7.10 | 108.4 | 549.6 | 3.90 | 12.00 |     |     |      |
| 1975 COMPOSITE  | 5.34 | 90.1  | 607.5 | 3.66 | 11.63 |     |     |      |
| IDLE KEYMODE    | 3822 | 1.47  |       | 305  |       | 836 | 240 | 0.90 |
| LOW CR. KEYMODE | 3225 | 1.91  |       | 1549 |       | 724 | 145 | 1.70 |
| HI. CR. KEYMODE | 3400 | 4.15  |       | 1276 |       | 744 | 145 | 3.60 |
| 2500 RPM        |      |       |       |      |       |     | 180 | 2.00 |

DRIVEABILITY DEMERITS 5

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0597

10/10/73 BAR:24.68 DB:71 WB:52  
REL.HUM:28.4% NOX COR: .854

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.92 | 206.5 | 572.9 | 1.96 | 9.65  |     |     |      |
| COLD STABILIZED | 3.61 | 84.1  | 646.9 | 2.47 | 11.27 |     |     |      |
| HOT TRANSIENT   | 4.12 | 103.0 | 532.0 | 2.58 | 12.60 |     |     |      |
| 1975 COMPOSITE  | 4.65 | 115.0 | 599.5 | 2.39 | 11.21 |     |     |      |
| IDLE KEYMODE    | 3992 | 5.23  |       | 86   |       | 542 | 185 | 4.00 |
| LOW CR. KEYMODE | 2231 | 0.94  |       | 1168 |       | 405 | 79  | 0.90 |
| HI. CR. KEYMODE | 2574 | 3.17  |       | 1337 |       | 451 | 95  | 2.60 |
| 2500 RPM        |      |       |       |      |       |     | 45  | 0.90 |

DRIVEABILITY DEMERITS 10

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 193

1969 FORD FAIR 302 3500LBS TUNE UP EVALUATION  
8CYL 2BBL 3 SPEED 054596 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 16

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0539

10/04/73 BAR:24.89 DB:72 WB:52  
REL.HUM:26.1% NOX COR: .846

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.31 | 90.7 | 415.9 | 3.10 | 15.23 |     |     |      |
| COLD STABILIZED | 5.93 | 58.3 | 486.6 | 3.04 | 14.92 |     |     |      |
| HOT TRANSIENT   | 5.38 | 49.9 | 381.2 | 4.05 | 18.69 |     |     |      |
| 1975 COMPOSITE  | 6.28 | 62.8 | 442.5 | 3.33 | 15.88 |     |     |      |
| IDLE KEYMODE    | 4024 | 0.18 |       | 76   |       | 996 | 300 | 0.27 |
| LOW CR. KEYMODE | 4552 | 1.05 |       | 2619 |       | 861 | 310 | 1.00 |
| HI. CR. KEYMODE | 4252 | 0.46 |       | 4281 |       | 852 | 290 | 0.49 |
| 2500 RPM        |      |      |       |      |       |     | 220 | 1.30 |

DRIVEABILITY DEMERITS 30

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0553

10/05/73 BAR:24.70 DB:75 WB:52  
REL.HUM:20.6% NOX COR: .832

|                 | HC    | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.01 | 93.6 | 393.3 | 3.13 | 15.57 |     |     |      |
| COLD STABILIZED | 6.44  | 89.9 | 394.3 | 1.82 | 16.02 |     |     |      |
| HOT TRANSIENT   | 6.27  | 63.3 | 344.0 | 3.31 | 19.22 |     |     |      |
| 1975 COMPOSITE  | 7.14  | 83.3 | 380.1 | 2.51 | 16.69 |     |     |      |
| IDLE KEYMODE    | 3308  | 2.24 |       | 68   |       | 708 | 190 | 2.10 |
| LOW CR. KEYMODE | 4246  | 1.10 |       | 2002 |       | 821 | 280 | 1.00 |
| HI. CR. KEYMODE | 4210  | 0.58 |       | 3576 |       | 845 | 300 | 0.55 |
| 2500 RPM        |       |      |       |      |       |     | 400 | 1.30 |

DRIVEABILITY DEMERITS 18

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 193

1969 FORD FAIR 302 3500LBS TUNE UP EVALUATION  
8CYL 2BBL 3 SPEED 054596 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 16

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0565

10/08/73 BAR:24.48 DB:76 WB:51  
REL.HUM:16.6% NOX COR: .815

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.29 | 80.7 | 465.8 | 2.38 | 14.54 |     |     |      |
| COLD STABILIZED | 4.90 | 44.8 | 624.0 | 2.95 | 12.55 |     |     |      |
| HOT TRANSIENT   | 4.13 | 53.0 | 404.1 | 2.29 | 17.79 |     |     |      |
| 1975 COMPOSITE  | 4.98 | 54.6 | 529.9 | 2.65 | 14.11 |     |     |      |
| IDLE KEYMODE    | 1281 | 1.28 |       | 142  |       | 468 | 62  | 1.25 |
| LOW CR. KEYMODE | 3311 | 1.22 |       | 1251 |       | 631 | 180 | 1.10 |
| HI. CR. KEYMODE | 3267 | 0.52 |       | 2730 |       | 644 | 190 | 0.50 |
| 2500 RPM        |      |      |       |      |       |     | 195 | 1.10 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0581

10/09/73 BAR:24.37 DB:71 WB:53  
REL.HUM:31.8% NOX COR: .872

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 8.71 | 106.7 | 384.9 | 2.47 | 15.35 |      |      |      |
| COLD STABILIZED | 5.44 | 72.9  | 446.0 | 2.29 | 15.41 |      |      |      |
| HOT TRANSIENT   | 6.59 | 65.1  | 380.0 | 3.38 | 17.70 |      |      |      |
| 1975 COMPOSITE  | 6.44 | 77.8  | 414.9 | 2.63 | 15.98 |      |      |      |
| IDLE KEYMODE    | 2801 | 1.65  |       | 93   |       | 333  | 115  | 1.50 |
| LOW CR. KEYMODE | 7417 | 1.07  |       | 2455 |       | 1368 | 900  | 1.00 |
| HI. CR. KEYMODE | 4059 | 0.49  |       | 4012 |       | 618  | 240  | 0.46 |
| 2500 RPM        |      |       |       |      |       |      | **** | 1.00 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 193

1969 FORD FAIR 302 3500LBS TUNE UP EVALUATION  
8CYL 2BBL 3 SPEED 054596 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 16

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0591

10/10/73 BAR:24.68 DB:72 WB:53  
REL.HUM:29.3% NOX COR: .863

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 6.78 | 70.0 | 460.0 | 4.00 | 15.06 |     |      |      |
| COLD STABILIZED | 8.74 | 46.9 | 568.3 | 3.85 | 13.30 |     |      |      |
| HOT TRANSIENT   | 5.42 | 37.5 | 438.3 | 5.22 | 17.32 |     |      |      |
| 1975 COMPOSITE  | 7.41 | 49.1 | 509.6 | 4.26 | 14.60 |     |      |      |
| IDLE KEYMODE    | 2728 | 1.13 |       | 104  |       | 278 | 140  | 1.10 |
| LOW CR. KEYMODE | 3487 | 0.38 |       | 2718 |       | 441 | 200  | 0.40 |
| HI. CR. KEYMODE | 3494 | 0.46 |       | 3724 |       | 438 | 190  | 0.40 |
| 2500 RPM        |      |      |       |      |       |     | **** | 0.85 |

DRIVEABILITY DEMERITS 35

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0609

10/11/73 BAR:24.51 DB:71 WB:53  
REL.HUM:31.7% NOX COR: .871

|                 | HC    | CO   | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 8.66  | 89.2 | 425.9 | 3.35 | 15.00 |      |      |      |
| COLD STABILIZED | 7.03  | 44.3 | 462.1 | 2.65 | 16.07 |      |      |      |
| HOT TRANSIENT   | 7.33  | 48.6 | 398.7 | 4.28 | 17.87 |      |      |      |
| 1975 COMPOSITE  | 7.45  | 54.9 | 437.0 | 3.25 | 16.29 |      |      |      |
| IDLE KEYMODE    | 20243 | 0.21 |       | 54   |       | **** | **** | 0.15 |
| LOW CR. KEYMODE | 4492  | 0.70 |       | 2468 |       | 572  | 385  | 0.62 |
| HI. CR. KEYMODE | 3991  | 0.43 |       | 3868 |       | 541  | 340  | 0.46 |
| 2500 RPM        |       |      |       |      |       |      | **** | 0.89 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 193

1969 FORD FAIR 302 3500LBS TUNE UP EVALUATION  
8CYL 2BBL 3 SPEED 054596 MILES HAS: EMC, NO EVC, PCV

RUN NUMBER 16

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0620

10/12/73 BAR:24.49 DB:74 WB:53  
REL.HUM:25.4% NOX COR: .854

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 10.67 | 111.6 | 409.4 | 3.17 | 14.40 |     |      |      |
| COLD STABILIZED | 8.89  | 106.3 | 473.8 | 3.15 | 13.31 |     |      |      |
| HOT TRANSIENT   | 6.44  | 65.7  | 395.6 | 4.70 | 17.15 |     |      |      |
| 1975 COMPOSITE  | 8.58  | 96.2  | 438.6 | 3.58 | 14.44 |     |      |      |
| IDLE KEYMODE    | 5801  | 8.01  |       | 59   |       | 483 | 340  | 8.00 |
| LOW CR. KEYMODE | 3747  | 1.31  |       | 2271 |       | 498 | 320  | 1.30 |
| HI. CR. KEYMODE | 3376  | 0.44  |       | 4510 |       | 482 | 295  | 0.42 |
| 2500 RPM        |       |       |       |      |       |     | **** | 1.60 |

DRIVEABILITY DEMERITS 12

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0646

10/15/73 BAR:24.94 DB:75 WB:57  
REL.HUM:34.6% NOX COR: .908

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 10.97 | 102.9 | 393.8 | 2.97 | 15.09 |     |      |      |
| COLD STABILIZED | 8.51  | 106.9 | 419.4 | 2.56 | 14.50 |     |      |      |
| HOT TRANSIENT   | 6.50  | 63.1  | 361.7 | 4.06 | 18.50 |     |      |      |
| 1975 COMPOSITE  | 8.47  | 93.9  | 398.0 | 3.06 | 15.56 |     |      |      |
| IDLE KEYMODE    | 7852  | 8.92  |       | 36   |       | 660 | 840  | 7.80 |
| LOW CR. KEYMODE | 3709  | 0.62  |       | 2229 |       | 553 | 540  | 0.65 |
| HI. CR. KEYMODE | 3579  | 0.51  |       | 3771 |       | 532 | 480  | 0.45 |
| 2500 RPM        |       |       |       |      |       |     | **** | 1.30 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 198

1966 CHEV IMPA 283 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 083297 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 24

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0612

10/11/73 BAR:24.39 DB:72 WB:56  
REL.HUM:38.9% NOX COR: .916

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.60 | 165.6 | 484.1 | 2.80 | 11.45 |     |     |      |
| COLD STABILIZED | 7.79  | 119.5 | 471.8 | 2.12 | 13.02 |     |     |      |
| HOT TRANSIENT   | 7.13  | 130.9 | 416.9 | 2.45 | 13.81 |     |     |      |
| 1975 COMPOSITE  | 8.19  | 132.3 | 459.1 | 2.36 | 12.86 |     |     |      |
| IDLE KEYMODE    | 4560  | 0.69  |       | 254  |       | 614 | 430 | 0.60 |
| LOW CR. KEYMODE | 4717  | 4.27  |       | 1210 |       | 588 | 425 | 3.70 |
| HI. CR. KEYMODE | 4354  | 4.17  |       | 1476 |       | 523 | 360 | 3.60 |
| 2500 RPM        |       |       |       |      |       |     | 475 | 4.40 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0623

10/12/73 BAR:24.51 DB:73 WB:52  
REL.HUM:24.5% NOX COR: .844

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.89 | 154.2 | 504.6 | 3.40 | 11.40 |     |     |      |
| COLD STABILIZED | 7.86  | 121.7 | 488.1 | 2.23 | 12.65 |     |     |      |
| HOT TRANSIENT   | 7.51  | 135.2 | 430.1 | 2.83 | 13.36 |     |     |      |
| 1975 COMPOSITE  | 8.39  | 132.2 | 475.4 | 2.64 | 12.55 |     |     |      |
| IDLE KEYMODE    | 4765  | 0.26  |       | 335  |       | 607 | 540 | 0.35 |
| LOW CR. KEYMODE | 5046  | 4.60  |       | 1135 |       | 615 | 510 | 4.70 |
| HI. CR. KEYMODE | 4975  | 6.38  |       | 1016 |       | 583 | 435 | 6.40 |
| 2500 RPM        |       |       |       |      |       |     | 500 | 4.80 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 198

1966 CHEV IMPA 283 4000LBS

TUNE UP EVALUATION

8CYL 2BBL AUTOMATIC

083297 MILES

HAS: NO EMC, NO EVC, PCV

RUN NUMBER 24

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0639

10/15/73 BAR:24.90 DB:77 WB:53  
REL.HUM:19.7% NOX COR: .833

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.77 | 169.5 | 522.6 | 2.46 | 10.82 |     |     |      |
| COLD STABILIZED | 6.71  | 119.6 | 474.7 | 1.47 | 13.02 |     |     |      |
| HOT TRANSIENT   | 6.91  | 149.5 | 473.1 | 2.24 | 12.20 |     |     |      |
| 1975 COMPOSITE  | 7.61  | 138.4 | 484.3 | 1.89 | 12.27 |     |     |      |
| IDLE KEYMODE    | 4361  | 1.45  |       | 327  |       | 575 | 740 | 1.40 |
| LOW CR. KEYMODE | 4645  | 5.70  |       | 821  |       | 578 | 620 | 5.80 |
| HI. CR. KEYMODE | 4616  | 5.88  |       | 992  |       | 566 | 560 | 5.60 |
| 2500 RPM        |       |       |       |      |       |     | 950 | 9.20 |

DRIVEABILITY DEMERITS 4

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0653

10/16/73 BAR:24.91 DB:70 WB:55  
REL.HUM:40.3% NOX COR: .905

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.88 | 141.9 | 498.4 | 2.72 | 11.88 |     |     |      |
| COLD STABILIZED | 6.54 | 107.7 | 496.9 | 1.75 | 12.97 |     |     |      |
| HOT TRANSIENT   | 6.67 | 124.4 | 432.2 | 2.14 | 13.73 |     |     |      |
| 1975 COMPOSITE  | 7.07 | 119.5 | 479.3 | 2.06 | 12.92 |     |     |      |
| IDLE KEYMODE    | 4264 | 1.58  |       | 317  |       | 589 | 800 | 1.60 |
| LOW CR. KEYMODE | 4921 | 5.74  |       | 648  |       | 640 | 750 | 5.70 |
| HI. CR. KEYMODE | 4443 | 5.32  |       | 1111 |       | 549 | 560 | 5.10 |
| 2500 RPM        |      |       |       |      |       |     | 680 | 5.00 |

DRIVEABILITY DEMERITS 8

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 198

1966 CHEV IMPA 283 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 083297 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 24

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0666

10/17/73 BAR:24.91 DB:70 WB:50  
REL.HUM:24.2% NOX COR: .830

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO   |
|-----------------|-------|-------|-------|------|-------|------|------|-------|
| COLD TRANSIENT  | 11.31 | 165.5 | 443.1 | 1.96 | 12.05 |      |      |       |
| COLD STABILIZED | 11.89 | 191.3 | 401.1 | 1.09 | 12.05 |      |      |       |
| HOT TRANSIENT   | 9.01  | 167.3 | 377.9 | 1.57 | 13.31 |      |      |       |
| 1975 COMPOSITE  | 10.97 | 179.2 | 403.4 | 1.41 | 12.38 |      |      |       |
| IDLE KEYMODE    | 10892 | 11.33 |       | 23   |       | 1373 | 1680 | ***** |
| LOW CR. KEYMODE | 5053  | 5.12  |       | 632  |       | 821  | 800  | 5.00  |
| HI. CR. KEYMODE | 4286  | 4.45  |       | 1261 |       | 681  | 560  | 4.40  |
| 2500 RPM        |       |       |       |      |       |      | 950  | 7.80  |

DRIVEABILITY DEMERITS 7

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0682

10/18/73 BAR:24.87 DB:86 WB:57  
REL.HUM:16.1% NOX COR: .843

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 13.79 | 167.5 | 408.3 | 1.82 | 12.45 |      |      |      |
| COLD STABILIZED | 15.42 | 208.6 | 365.6 | 0.83 | 12.00 |      |      |      |
| HOT TRANSIENT   | 11.08 | 177.9 | 345.8 | 1.20 | 13.48 |      |      |      |
| 1975 COMPOSITE  | 13.88 | 191.5 | 369.0 | 1.14 | 12.48 |      |      |      |
| IDLE KEYMODE    | 12140 | 11.73 |       | 15   |       | 1412 | 1250 | 9.90 |
| LOW CR. KEYMODE | 5462  | 7.00  |       | 364  |       | 793  | 470  | 6.00 |
| HI. CR. KEYMODE | 4664  | 6.66  |       | 758  |       | 690  | 350  | 5.50 |
| 2500 RPM        |       |       |       |      |       |      | 480  | 6.90 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 198

1966 CHEV IMPA 283 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 083297 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 24

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0698

10/19/73 BAR:24.93 DB:82 WB:54  
REL.HUM:14.7% NOX COR: .820

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|------|-----|-------|
| COLD TRANSIENT  | 10.50 | 143.2 | 402.0 | 1.83 | 13.49 |      |     |       |
| COLD STABILIZED | 12.56 | 174.9 | 345.5 | 0.92 | 13.49 |      |     |       |
| HOT TRANSIENT   | 10.47 | 168.2 | 361.9 | 1.57 | 13.51 |      |     |       |
| 1975 COMPOSITE  | 11.55 | 166.4 | 361.9 | 1.29 | 13.50 |      |     |       |
| IDLE KEYMODE    | 11387 | 11.63 |       | 16   |       | 1418 | 780 | ***** |
| LOW CR. KEYMODE | 4845  | 6.49  |       | 400  |       | 755  | 435 | 5.60  |
| HI. CR. KEYMODE | 4172  | 4.39  |       | 1226 |       | 627  | 320 | 4.10  |
| 2500 RPM        |       |       |       |      |       |      | 835 | ***** |

DRIVEABILITY DEMERITS 26

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0715

10/22/73 BAR:24.83 DB:76 WB:52  
REL.HUM:18.8% NOX COR: .825

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 12.63 | 182.1 | 441.5 | 1.79 | 11.60 |      |     |      |
| COLD STABILIZED | 10.72 | 196.6 | 400.2 | 0.94 | 11.98 |      |     |      |
| HOT TRANSIENT   | 8.11  | 164.7 | 368.5 | 1.41 | 13.64 |      |     |      |
| 1975 COMPOSITE  | 10.40 | 184.7 | 400.1 | 1.25 | 12.32 |      |     |      |
| IDLE KEYMODE    | 9094  | 11.61 |       | 26   |       | 1185 | 780 | 9.40 |
| LOW CR. KEYMODE | 4795  | 5.76  |       | 556  |       | 709  | 400 | 4.40 |
| HI. CR. KEYMODE | 4171  | 4.62  |       | 1178 |       | 591  | 290 | 3.80 |
| 2500 RPM        |       |       |       |      |       |      | 520 | 7.70 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 210

1973 VOLK SEDA 97 2000LBS TUNE UP EVALUATION  
4CYL 1BBL 4 SPEED 015868 MILES HAS: EMC, EVC, NO PCV

RUN NUMBER 21

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0610

10/11/73 BAR:24.51 DB:72 WB:52  
REL.HUM:26.5% NOX COR: .850

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.81 | 78.5 | 316.9 | 3.26 | 19.41 |     |     |      |
| COLD STABILIZED | 5.10 | 74.8 | 340.6 | 2.62 | 18.78 |     |     |      |
| HOT TRANSIENT   | 4.12 | 67.2 | 292.4 | 3.07 | 21.66 |     |     |      |
| 1975 COMPOSITE  | 4.98 | 73.5 | 322.3 | 2.88 | 19.64 |     |     |      |
| IDLE KEYMODE    | 3204 | 0.42 |       | 105  |       | 408 | 215 | 0.41 |
| LOW CR. KEYMODE | 3897 | 3.45 |       | 1648 |       | 492 | 285 | 3.40 |
| HI. CR. KEYMODE | 3049 | 1.30 |       | 3623 |       | 412 | 190 | 1.20 |
| 2500 RPM        |      |      |       |      |       |     | 260 | 2.80 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0621

10/12/73 BAR:24.51 DB:70 WB:52  
REL.HUM:30.8% NOX COR: .861

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.41 | 105.3 | 310.8 | 3.86 | 17.71 |     |     |      |
| COLD STABILIZED | 6.36 | 90.2  | 341.8 | 2.93 | 17.68 |     |     |      |
| HOT TRANSIENT   | 5.28 | 74.9  | 295.2 | 3.41 | 20.72 |     |     |      |
| 1975 COMPOSITE  | 6.49 | 89.1  | 322.4 | 3.26 | 18.44 |     |     |      |
| IDLE KEYMODE    | 3863 | 4.72  |       | 79   |       | 387 | 240 | 4.30 |
| LOW CR. KEYMODE | 3665 | 2.75  |       | 2187 |       | 529 | 265 | 2.70 |
| HI. CR. KEYMODE | 2780 | 0.61  |       | 4520 |       | 459 | 190 | 0.65 |
| 2500 RPM        |      |       |       |      |       |     | 310 | 4.90 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 210

1973 VOLK SEDA 97 2000LBS TUNE UP EVALUATION  
4CYL 1BBL 4 SPEED 015868 MILES HAS: EMC, EVC, NO PCV

RUN NUMBER 21

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0640

10/15/73 BAR:24.90 DB:77 WB:53  
REL.HUM:19.7% NOX COR: .833

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.15 | 100.8 | 309.1 | 1.65 | 18.28 |     |     |      |
| COLD STABILIZED | 4.97 | 95.2  | 330.0 | 1.22 | 17.98 |     |     |      |
| HOT TRANSIENT   | 5.20 | 83.3  | 310.1 | 1.74 | 19.47 |     |     |      |
| 1975 COMPOSITE  | 5.28 | 93.1  | 320.1 | 1.46 | 18.44 |     |     |      |
| IDLE KEYMODE    | 3974 | 4.73  |       | 79   |       | 414 | 410 | 4.10 |
| LOW CR. KEYMODE | 3194 | 3.30  |       | 998  |       | 417 | 275 | 3.70 |
| HI. CR. KEYMODE | 2544 | 2.32  |       | 1700 |       | 384 | 240 | 2.40 |
| 2500 RPM        |      |       |       |      |       |     | 220 | 3.20 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0652

10/16/73 BAR:24.91 DB:70 WB:55  
REL.HUM:40.3% NOX COR: .905

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.92 | 110.7 | 345.6 | 1.64 | 16.55 |     |     |      |
| COLD STABILIZED | 3.61 | 88.0  | 405.0 | 1.37 | 16.05 |     |     |      |
| HOT TRANSIENT   | 5.38 | 73.8  | 324.1 | 1.72 | 19.48 |     |     |      |
| 1975 COMPOSITE  | 4.58 | 88.8  | 370.1 | 1.52 | 16.99 |     |     |      |
| IDLE KEYMODE    | 3088 | 3.77  |       | 135  |       | 263 | 200 | 3.40 |
| LOW CR. KEYMODE | 3110 | 3.11  |       | 1014 |       | 374 | 280 | 2.80 |
| HI. CR. KEYMODE | 2986 | 3.80  |       | 1293 |       | 393 | 260 | 3.60 |
| 2500 RPM        |      |       |       |      |       |     | 250 | 3.80 |

DRIVEABILITY DEMERITS 6

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 210

1973 VOLK SEDA 97 2000LBS TUNE UP EVALUATION  
4CYL 1BBL 4 SPEED 015868 MILES HAS: EMC, EVC, NO PCV

RUN NUMBER 21

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0667

10/17/73 BAR:24.92 DB:73 WB:52  
REL.HUM:24.1% NOX COR: .841

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.49 | 95.7 | 355.1 | 1.79 | 17.04 |     |     |      |
| COLD STABILIZED | 3.86 | 78.0 | 402.0 | 1.31 | 16.59 |     |     |      |
| HOT TRANSIENT   | 4.11 | 80.5 | 339.3 | 1.44 | 18.60 |     |     |      |
| 1975 COMPOSITE  | 4.27 | 82.4 | 374.8 | 1.45 | 17.20 |     |     |      |
| IDLE KEYMODE    | 1736 | 0.52 |       | 127  |       | 286 | 210 | 0.60 |
| LOW CR. KEYMODE | 2689 | 2.79 |       | 807  |       | 356 | 210 | 3.00 |
| HI. CR. KEYMODE | 2431 | 3.34 |       | 1019 |       | 378 | 190 | 3.30 |
| 2500 RPM        |      |      |       |      |       |     | 180 | 2.60 |

DRIVEABILITY DEMERITS 5

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0679

10/18/73 BAR:24.89 DB:70 WB:52  
REL.HUM:30.4% NOX COR: .858

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.43 | 92.0 | 280.9 | 1.39 | 20.12 |     |     |      |
| COLD STABILIZED | 4.63 | 78.5 | 352.4 | 1.31 | 18.16 |     |     |      |
| HOT TRANSIENT   | 5.72 | 72.5 | 285.7 | 1.56 | 21.32 |     |     |      |
| 1975 COMPOSITE  | 5.10 | 79.7 | 318.9 | 1.40 | 19.35 |     |     |      |
| IDLE KEYMODE    | 2210 | 0.62 |       | 117  |       | 322 | 155 | 0.50 |
| LOW CR. KEYMODE | 2676 | 2.94 |       | 1029 |       | 362 | 120 | 2.60 |
| HI. CR. KEYMODE | 1972 | 1.72 |       | 1946 |       | 344 | 90  | 1.50 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 1.80 |

DRIVEABILITY DEMERITS 3

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 210

1973 VOLK SEDA 97 2000LBS TUNE UP EVALUATION  
4CYL 1BBL 4 SPEED 015868 MILES HAS: EMC, EVC, NO PCV

RUN NUMBER 21

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0700

10/19/73 BAR:24.90 DB:78 WB:52  
REL.HUM:15.6% NOX COR: .814

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.63 | 78.4 | 303.0 | 2.72 | 20.05 |     |     |      |
| COLD STABILIZED | 4.44 | 65.9 | 328.7 | 2.07 | 19.95 |     |     |      |
| HOT TRANSIENT   | 4.37 | 54.8 | 285.2 | 2.84 | 23.12 |     |     |      |
| 1975 COMPOSITE  | 4.67 | 65.5 | 311.2 | 2.42 | 20.77 |     |     |      |
| IDLE KEYMODE    | 2738 | 0.28 |       | 98   |       | 430 | 210 | 0.28 |
| LOW CR. KEYMODE | 3112 | 2.81 |       | 1744 |       | 426 | 180 | 2.20 |
| HI. CR. KEYMODE | 2431 | 0.55 |       | 3846 |       | 395 | 135 | 0.50 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 1.70 |

DRIVEABILITY DEMERITS 9

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0716

10/22/73 BAR:24.83 DB:78 WB:51  
REL.HUM:13.3% NOX COR: .802

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.04 | 89.3 | 291.1 | 2.50 | 19.77 |     |     |      |
| COLD STABILIZED | 5.30 | 94.7 | 283.5 | 1.52 | 19.83 |     |     |      |
| HOT TRANSIENT   | 3.73 | 66.9 | 237.3 | 2.05 | 25.15 |     |     |      |
| 1975 COMPOSITE  | 5.02 | 85.9 | 272.2 | 1.87 | 21.06 |     |     |      |
| IDLE KEYMODE    | 4604 | 6.56 |       | 69   |       | 554 | 350 | 5.40 |
| LOW CR. KEYMODE | 3350 | 3.21 |       | 1363 |       | 644 | 200 | 2.80 |
| HI. CR. KEYMODE | 2421 | 0.68 |       | 3576 |       | 300 | 130 | 0.80 |
| 2500 RPM        |      |      |       |      |       |     | 340 | 4.30 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 212

1967 FORD MUST 289 3000LBS TUNE UP EVALUATION  
8CYL 2BBL 3 SPEED 051835 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 22

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0611

10/11/73 BAR:24.39 DB:72 WB:52  
REL.HUM:26.6% NOX COR: .851

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.99 | 139.6 | 356.0 | 1.42 | 14.67 |     |     |      |
| COLD STABILIZED | 6.16 | 115.4 | 375.4 | 0.86 | 15.46 |     |     |      |
| HOT TRANSIENT   | 5.44 | 93.7  | 324.0 | 1.63 | 18.23 |     |     |      |
| 1975 COMPOSITE  | 6.76 | 114.4 | 357.1 | 1.19 | 15.96 |     |     |      |
| IDLE KEYMODE    | 3003 | 0.58  |       | 78   |       | 381 | 220 | 0.50 |
| LOW CR. KEYMODE | 4559 | 4.00  |       | 1298 |       | 609 | 380 | 3.50 |
| HI. CR. KEYMODE | 4170 | 3.59  |       | 1544 |       | 593 | 360 | 0.90 |
| 2500 RPM        |      |       |       |      |       |     | 360 | 4.20 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0622

10/12/73 BAR:24.51 DB:73 WB:53  
REL.HUM:27.4% NOX COR: .859

|                 | HC   | CO    | CO2   | NOX   | MPG   | LHC  | SHC | SCO  |
|-----------------|------|-------|-------|-------|-------|------|-----|------|
| COLD TRANSIENT  | 9.96 | 128.7 | 360.3 | 2.21  | 14.99 |      |     |      |
| COLD STABILIZED | 8.12 | 112.6 | 409.1 | 1.58  | 14.56 |      |     |      |
| HOT TRANSIENT   | 6.24 | 89.6  | 355.8 | 2.47  | 17.25 |      |     |      |
| 1975 COMPOSITE  | 7.98 | 109.6 | 384.1 | 1.96  | 15.32 |      |     |      |
| IDLE KEYMODE    | 4137 | 0.95  |       | C#rJ* |       |      |     |      |
| 440 4.00        |      |       |       |       |       |      |     |      |
| LOW CR. KEYMODE |      |       |       |       |       | 4551 |     | 3.84 |
| HI. CR. KEYMODE | 4327 | 3.72  |       | 1598  |       | 578  | 440 | 3.80 |
| 2500 RPM        |      |       |       |       |       |      | 740 | 4.20 |

DRIVEABILITY DEMERITS 20

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 212

1967 FORD MUST 289 3000LBS TUNE UP EVALUATION  
8CYL 2BBL 3 SPEED 051835 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 22

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0641

10/15/73 BAR:24.95 DB:76 WB:54  
REL.HUM:24.0% NOX COR: .852

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.06 | 134.1 | 344.8 | 1.60 | 15.16 |     |     |      |
| COLD STABILIZED | 6.75  | 106.7 | 385.9 | 1.00 | 15.49 |     |     |      |
| HOT TRANSIENT   | 6.01  | 97.0  | 338.1 | 1.66 | 17.48 |     |     |      |
| 1975 COMPOSITE  | 7.24  | 109.8 | 364.0 | 1.31 | 15.92 |     |     |      |
| IDLE KEYMODE    | 4391  | 1.38  |       | 77   |       | 458 | 480 | 1.70 |
| LOW CR. KEYMODE | 4280  | 3.15  |       | 989  |       | 638 | 720 | 3.40 |
| HI. CR. KEYMODE | 4353  | 4.32  |       | 1198 |       | 636 | 660 | 4.30 |
| 2500 RPM        |       |       |       |      |       |     | 720 | 4.80 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0651

10/16/73 BAR:24.91 DB:72 WB:54  
REL.HUM:32.2% NOX COR: .876

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 13.75 | 153.3 | 284.9 | 1.04 | 15.64 |     |     |      |
| COLD STABILIZED | 11.24 | 161.8 | 311.6 | 0.60 | 14.81 |     |     |      |
| HOT TRANSIENT   | 7.92  | 114.8 | 283.8 | 1.32 | 18.20 |     |     |      |
| 1975 COMPOSITE  | 10.84 | 147.0 | 298.3 | 0.89 | 15.81 |     |     |      |
| IDLE KEYMODE    | 8070  | 7.95  |       | 38   |       | 734 | 990 | 8.40 |
| LOW CR. KEYMODE | 4743  | 4.49  |       | 1231 |       | 621 | 720 | 4.60 |
| HI. CR. KEYMODE | 4325  | 4.29  |       | 1134 |       | 596 | 660 | 4.40 |
| 2500 RPM        |       |       |       |      |       |     | 270 | 5.80 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 212

1967 FORD MUST 289 3000LBS TUNE UP EVALUATION  
8CYL 2BBL 3 SPEED 051835 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 22

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0668

10/17/73 BAR:24.92 DB:78 WB:53  
REL.HUM:18.1% NOX COR: .828

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.54 | 118.6 | 321.7 | 1.37 | 16.64 |     |     |      |
| COLD STABILIZED | 6.99 | 117.9 | 343.5 | 0.79 | 16.17 |     |     |      |
| HOT TRANSIENT   | 6.60 | 91.3  | 304.3 | 1.37 | 19.00 |     |     |      |
| 1975 COMPOSITE  | 7.20 | 110.6 | 328.1 | 1.08 | 16.98 |     |     |      |
| IDLE KEYMODE    | 5360 | 1.57  |       | 53   |       | 711 | 800 | 1.30 |
| LOW CR. KEYMODE | 4523 | 4.12  |       | 1292 |       | 685 | 640 | 4.10 |
| HI. CR. KEYMODE | 4288 | 4.63  |       | 1630 |       | 624 | 520 | 4.40 |
| 2500 RPM        |      |       |       |      |       |     | 600 | 4.40 |

DRIVEABILITY DEMERITS 3

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0680

10/18/73 BAR:24.89 DB:73 WB:53  
REL.HUM:27.0% NOX COR: .855

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.65 | 141.9 | 293.4 | 1.09 | 16.10 |     |     |      |
| COLD STABILIZED | 9.66  | 159.0 | 311.3 | 0.65 | 15.05 |     |     |      |
| HOT TRANSIENT   | 7.16  | 108.5 | 268.8 | 1.34 | 19.27 |     |     |      |
| 1975 COMPOSITE  | 9.38  | 141.4 | 295.8 | 0.93 | 16.27 |     |     |      |
| IDLE KEYMODE    | 6523  | 7.79  |       | 46   |       | 688 | 410 | 6.40 |
| LOW CR. KEYMODE | 4393  | 4.45  |       | 1291 |       | 562 | 350 | 3.30 |
| HI. CR. KEYMODE | 4103  | 3.91  |       | 1383 |       | 624 | 330 | 3.20 |
| 2500 RPM        |       |       |       |      |       |     | 370 | 3.90 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 212

1967 FORD MUST 289 3000LBS TUNE UP EVALUATION  
8CYL 2BBL 3 SPEED 051835 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 22

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0699

10/19/73 BAR:24.92 DB:79 WB:52  
REL.HUM:14.2% NOX COR: .809

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.37 | 138.1 | 304.9 | 1.16 | 15.96 |     |     |      |
| COLD STABILIZED | 11.12 | 166.1 | 321.1 | 0.78 | 14.43 |     |     |      |
| HOT TRANSIENT   | 7.46  | 112.6 | 293.7 | 1.42 | 18.02 |     |     |      |
| 1975 COMPOSITE  | 10.15 | 145.4 | 310.1 | 1.04 | 15.61 |     |     |      |
| IDLE KEYMODE    | 7714  | 9.26  |       | 37   |       | 755 | 490 | 7.80 |
| LOW CR. KEYMODE | 4303  | 4.13  |       | 1307 |       | 661 | 350 | 3.60 |
| HI. CR. KEYMODE | 4194  | 4.08  |       | 1300 |       | 677 | 350 | 3.35 |
| 2500 RPM        |       |       |       |      |       |     | 335 | 4.10 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0720

10/22/73 BAR:24.80 DB:77 WB:53  
REL.HUM:19.8% NOX COR: .834

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 13.12 | 149.2 | 294.0 | 1.34 | 15.62 |      |     |      |
| COLD STABILIZED | 13.76 | 161.4 | 294.5 | 0.81 | 15.05 |      |     |      |
| HOT TRANSIENT   | 8.34  | 100.0 | 295.7 | 1.69 | 18.58 |      |     |      |
| 1975 COMPOSITE  | 12.12 | 141.8 | 294.7 | 1.16 | 16.02 |      |     |      |
| IDLE KEYMODE    | 11647 | 10.58 |       | 26   |       | 1352 | 920 | 9.00 |
| LOW CR. KEYMODE | 4823  | 4.65  |       | 615  |       | 737  | 480 | 4.00 |
| HI. CR. KEYMODE | 4471  | 5.23  |       | 960  |       | 687  | 420 | 3.60 |
| 2500 RPM        |       |       |       |      |       |      | 560 | 4.60 |

DRIVEABILITY DEMERITS 2

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 214

1966 PONT CATA 389 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 046086 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 23

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0613

10/11/73 BAR:24.42 DB:71 WB:52  
REL.HUM:28.7% NOX COR: .856

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 12.44 | 181.3 | 531.5 | 3.22 | 10.41 |     |     |      |
| COLD STABILIZED | 6.43  | 96.0  | 521.9 | 2.41 | 12.85 |     |     |      |
| HOT TRANSIENT   | 5.42  | 86.0  | 463.5 | 4.15 | 14.46 |     |     |      |
| 1975 COMPOSITE  | 7.41  | 111.1 | 507.7 | 3.06 | 12.62 |     |     |      |
| IDLE KEYMODE    | 5239  | 4.92  |       | 95   |       | 611 | 440 | 4.00 |
| LOW CR. KEYMODE | 4190  | 3.75  |       | 1104 |       | 520 | 320 | 2.90 |
| HI. CR. KEYMODE | 3592  | 2.94  |       | 1934 |       | 459 | 235 | 2.30 |
| 2500 RPM        |       |       |       |      |       |     | 280 | 1.50 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0624

10/12/73 BAR:24.51 DB:70 WB:51  
REL.HUM:27.7% NOX COR: .847

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 14.07 | 226.2 | 538.1 | 4.40 | 9.49  |      |      |      |
| COLD STABILIZED | 7.35  | 111.6 | 604.6 | 6.25 | 11.09 |      |      |      |
| HOT TRANSIENT   | 5.93  | 103.0 | 514.5 | 6.57 | 12.81 |      |      |      |
| 1975 COMPOSITE  | 8.36  | 133.2 | 565.7 | 5.95 | 11.12 |      |      |      |
| IDLE KEYMODE    | 4831  | 4.06  |       | 556  |       | 604  | 570  | 4.20 |
| LOW CR. KEYMODE | 3573  | 2.47  |       | 2612 |       | 489  | 320  | 2.60 |
| HI. CR. KEYMODE | 10679 | 7.29  |       | 662  |       | 1987 | 1700 | 6.00 |
| 2500 RPM        |       |       |       |      |       |      | 750  | 1.20 |

DRIVEABILITY DEMERITS 124

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 214

1966 PONT CATA 389 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 046086 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 23

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0642

10/15/73 BAR:24.95 DB:77 WB:53  
REL.HUM:19.6% NOX COR: .833

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.61 | 101.4 | 609.3 | 2.98 | 11.19 |     |     |      |
| COLD STABILIZED | 4.30 | 30.7  | 622.0 | 1.99 | 13.02 |     |     |      |
| HOT TRANSIENT   | 3.95 | 51.5  | 501.1 | 2.96 | 14.98 |     |     |      |
| 1975 COMPOSITE  | 5.11 | 51.3  | 585.8 | 2.47 | 13.05 |     |     |      |
| IDLE KEYMODE    | 3034 | 0.14  |       | 267  |       | 392 | 440 | 0.17 |
| LOW CR. KEYMODE | 3093 | 2.69  |       | 1028 |       | 449 | 435 | 2.80 |
| HI. CR. KEYMODE | 2749 | 2.26  |       | 1816 |       | 418 | 335 | 2.25 |
| 2500 RPM        |      |       |       |      |       |     | 260 | 1.10 |

DRIVEABILITY DEMERITS 8

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0650

10/16/73 BAR:24.93 DB:71 WB:53  
REL.HUM:31.3% NOX COR: .866

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 25.95 | 192.6 | 528.6 | 2.44 | 9.75  |     |     |      |
| COLD STABILIZED | 5.64  | 21.1  | 578.1 | 2.01 | 14.15 |     |     |      |
| HOT TRANSIENT   | 5.46  | 50.6  | 462.6 | 2.85 | 15.92 |     |     |      |
| 1975 COMPOSITE  | 9.84  | 65.2  | 535.7 | 2.33 | 13.31 |     |     |      |
| IDLE KEYMODE    | 5990  | 0.19  |       | 116  |       | 892 | 900 | 0.17 |
| LOW CR. KEYMODE | 3073  | 1.48  |       | 1447 |       | 407 | 400 | 1.50 |
| HI. CR. KEYMODE | 2691  | 1.23  |       | 2496 |       | 365 | 280 | 1.20 |
| 2500 RPM        |       |       |       |      |       |     | 260 | 0.70 |

DRIVEABILITY DEMERITS 5

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 214

1966 PONT CATA 389 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 046086 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 23

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0669

10/17/73 BAR:24.92 DB:78 WB:53  
REL.HUM:18.1% NOX COR: .828

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 5.22 | 77.4 | 570.8 | 7.61 | 12.56 |      |      |      |
| COLD STABILIZED | 6.06 | 28.9 | 577.4 | 7.18 | 13.87 |      |      |      |
| HOT TRANSIENT   | 4.95 | 55.6 | 458.5 | 7.15 | 15.86 |      |      |      |
| 1975 COMPOSITE  | 5.58 | 46.4 | 543.0 | 7.26 | 14.06 |      |      |      |
| IDLE KEYMODE    | 6598 | 0.15 |       | 731  |       | 1094 | 600  | 0.14 |
| LOW CR. KEYMODE | 2972 | 1.79 |       | 3189 |       | 509  | 225  | 1.85 |
| HI. CR. KEYMODE | 8872 | 7.05 |       | 633  |       | 1987 | 1600 | 6.80 |
| 2500 RPM        |      |      |       |      |       |      | 1900 | 1.30 |

DRIVEABILITY DEMERITS 84

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0681

10/18/73 BAR:24.90 DB:75 WB:52  
REL.HUM:20.4% NOX COR: .830

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 11.60 | 193.7 | 480.8 | 4.57 | 10.83 |      |      |      |
| COLD STABILIZED | 9.17  | 20.0  | 509.2 | 6.28 | 15.63 |      |      |      |
| HOT TRANSIENT   | 5.36  | 56.7  | 449.5 | 6.23 | 16.03 |      |      |      |
| 1975 COMPOSITE  | 8.62  | 66.6  | 486.7 | 5.91 | 14.40 |      |      |      |
| IDLE KEYMODE    | 11868 | 0.21  |       | 171  |       | **** | 1620 | 0.14 |
| LOW CR. KEYMODE | 3210  | 2.02  |       | 2892 |       | 553  | 230  | 1.50 |
| HI. CR. KEYMODE | 2553  | 2.33  |       | 3112 |       | 488  | 180  | 2.00 |
| 2500 RPM        |       |       |       |      |       |      | 1550 | 2.60 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 214

1966 PONT CATA 389 4000LBS TUNE UP EVALUATION  
8CYL 2BBL AUTOMATIC 046086 MILES HAS: NO EMC, NO EVC, PCV

RUN NUMBER 23

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0701

10/19/73 BAR:24.90 DB:78 WB:52  
REL.HUM:15.6% NOX COR: .814

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.97 | 84.5 | 522.6 | 6.75 | 13.27 |     |     |      |
| COLD STABILIZED | 5.61 | 52.1 | 505.9 | 4.92 | 14.71 |     |     |      |
| HOT TRANSIENT   | 4.71 | 73.8 | 452.2 | 6.13 | 15.28 |     |     |      |
| 1975 COMPOSITE  | 5.23 | 64.9 | 494.5 | 5.64 | 14.53 |     |     |      |
| IDLE KEYMODE    | 5333 | 0.36 |       | 403  |       | 839 | 700 | 0.30 |
| LOW CR. KEYMODE | 2837 | 2.62 |       | 2582 |       | 451 | 210 | 2.20 |
| HI. CR. KEYMODE | 2560 | 2.80 |       | 2960 |       | 431 | 180 | 2.30 |
| 2500 RPM        |      |      |       |      |       |     | 950 | 3.60 |

DRIVEABILITY DEMERITS 83

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0722

10/22/73 BAR:24.80 DB:74 WB:52  
REL.HUM:22.3% NOX COR: .836

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 17.54 | 193.9 | 487.2 | 2.50 | 10.51 |     |     |      |
| COLD STABILIZED | 5.25  | 88.6  | 480.9 | 1.76 | 13.99 |     |     |      |
| HOT TRANSIENT   | 4.62  | 81.6  | 502.6 | 3.21 | 13.80 |     |     |      |
| 1975 COMPOSITE  | 7.65  | 108.7 | 488.2 | 2.32 | 13.04 |     |     |      |
| IDLE KEYMODE    | 11074 | 3.87  |       | 95   |       | 0   | 400 | 3.80 |
| LOW CR. KEYMODE | 2919  | 2.43  |       | 927  |       | 182 | 340 | 2.10 |
| HI. CR. KEYMODE | 2312  | 0.85  |       | 2179 |       | 308 | 190 | 0.90 |
| 2500 RPM        |       |       |       |      |       |     | 220 | 1.50 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 289

1969 VOLK SEDA 91 2000LBS TUNE UP EVALUATION  
4CYL 1BBL 4 SPEED 063512 MILES HAS: EMC, NO EVC, NO PCV

RUN NUMBER 25

\*\*\*\*\* SETTING 1 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING SPEC. CHOKE EXP.

TEST NO:C0864

11/05/73 BAR:24.70 DB:71 WB:53  
REL.HUM:31.5% NOX COR: .869

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.16 | 90.4 | 253.8 | 1.98 | 21.44 |     |     |      |
| COLD STABILIZED | 4.76 | 69.2 | 283.3 | 1.63 | 21.88 |     |     |      |
| HOT TRANSIENT   | 4.01 | 61.7 | 234.7 | 1.94 | 25.86 |     |     |      |
| 1975 COMPOSITE  | 4.84 | 71.6 | 263.6 | 1.79 | 22.76 |     |     |      |
| IDLE KEYMODE    | 3777 | 3.86 |       | 67   |       | 298 | 150 | 3.40 |
| LOW CR. KEYMODE | 3039 | 3.09 |       | 1083 |       | 324 | 160 | 2.80 |
| HI. CR. KEYMODE | 2891 | 5.35 |       | 1471 |       | 343 | 165 | 4.95 |
| 2500 RPM        |      |      |       |      |       |     | 160 | 2.60 |

DRIVEABILITY DEMERITS 2

\*\*\*\*\* SETTING 2 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING EXP. CHOKE EXP.

TEST NO:C0876

11/06/73 BAR:24.65 DB:81 WB:56  
REL.HUM:21.0% NOX COR: .858

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.55 | 105.7 | 241.0 | 2.29 | 20.66 |     |     |      |
| COLD STABILIZED | 5.95 | 81.4  | 267.1 | 2.35 | 21.52 |     |     |      |
| HOT TRANSIENT   | 4.07 | 60.4  | 212.7 | 2.50 | 27.79 |     |     |      |
| 1975 COMPOSITE  | 5.76 | 80.6  | 246.5 | 2.38 | 22.75 |     |     |      |
| IDLE KEYMODE    | 4110 | 3.61  |       | 66   |       | 487 | 95  | 0.90 |
| LOW CR. KEYMODE | 2854 | 2.93  |       | 1616 |       | 332 | 70  | 0.70 |
| HI. CR. KEYMODE | 2952 | 4.73  |       | 2131 |       | 381 | 70  | 1.20 |
| 2500 RPM        |      |       |       |      |       |     | 180 | 1.10 |

DRIVEABILITY DEMERITS 0

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 289

1969 VOLK SEDA 91 2000LBS TUNE UP EVALUATION  
4CYL 1BBL 4 SPEED 063512 MILES HAS: EMC, NO EVC, NO PCV

RUN NUMBER 25

\*\*\*\*\* SETTING 3 \*\*\*\*\*

A/F EXP. RPM EXP. TIMING SPEC. CHOKE SPEC.

TEST NO:C0893

11/07/73 BAR:24.68 DB:76 WB:52  
REL.HUM:19.0% NOX COR: .827

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.93 | 102.7 | 261.4 | 1.83 | 20.17 |     |     |      |
| COLD STABILIZED | 5.15 | 81.9  | 281.0 | 1.55 | 20.90 |     |     |      |
| HOT TRANSIENT   | 4.02 | 69.1  | 223.3 | 1.68 | 25.85 |     |     |      |
| 1975 COMPOSITE  | 5.00 | 82.7  | 260.9 | 1.64 | 21.90 |     |     |      |
| IDLE KEYMODE    | 4435 | 4.17  |       | 71   |       | 401 | 120 | 1.70 |
| LOW CR. KEYMODE | 3505 | 3.01  |       | 1061 |       | 382 | 130 | 1.50 |
| HI. CR. KEYMODE | 3048 | 2.03  |       | 2690 |       | 344 | 110 | 3.40 |
| 2500 RPM        |      |       |       |      |       |     | 220 | 2.00 |

DRIVEABILITY DEMERITS 0

\*\*\*\*\* SETTING 4 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING EXP. CHOKE SPEC.

TEST NO:C0909

11/08/73 BAR:24.73 DB:78 WB:56  
REL.HUM:25.9% NOX COR: .875

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.29 | 109.0 | 247.9 | 1.96 | 19.99 |     |     |      |
| COLD STABILIZED | 8.05 | 104.9 | 267.3 | 1.66 | 19.46 |     |     |      |
| HOT TRANSIENT   | 4.75 | 78.5  | 229.5 | 2.11 | 24.20 |     |     |      |
| 1975 COMPOSITE  | 7.18 | 98.5  | 252.8 | 1.85 | 20.71 |     |     |      |
| IDLE KEYMODE    | 4214 | 6.10  |       | 64   |       | 344 | 220 | 4.60 |
| LOW CR. KEYMODE | 2920 | 3.60  |       | 1305 |       | 336 | 190 | 2.90 |
| HI. CR. KEYMODE | 2478 | 1.79  |       | 3120 |       | 313 | 160 | 1.40 |
| 2500 RPM        |      |       |       |      |       |     | 840 | 3.00 |

DRIVEABILITY DEMERITS 1

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 289

1969 VOLK SEDA 91 2000LBS

TUNE UP EVALUATION

4CYL 1BBL

4 SPEED

063512 MILES

HAS: EMC, NO EVC, NO PCV

RUN NUMBER 25

\*\*\*\*\* SETTING 5 \*\*\*\*\*

A/F EXP. RPM SPEC. TIMING EXP. CHOKE SPEC.

TEST NO:C0925

11/09/73 BAR:24.85 DB:76 WB:55  
REL.HUM:26.8% NOX COR: .869

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 6.32 | 88.9 | 272.3 | 2.49 | 20.61 |      |      |      |
| COLD STABILIZED | 4.99 | 57.4 | 269.5 | 2.03 | 23.71 |      |      |      |
| HOT TRANSIENT   | 4.24 | 65.9 | 235.9 | 2.17 | 25.24 |      |      |      |
| 1975 COMPOSITE  | 5.06 | 66.3 | 260.8 | 2.16 | 23.38 |      |      |      |
| IDLE KEYMODE    | 7766 | 0.39 |       | 82   |       | 1753 | 1290 | 0.39 |
| LOW CR. KEYMODE | 3437 | 2.68 |       | 1191 |       | 421  | 235  | 2.20 |
| HI. CR. KEYMODE | 2966 | 2.34 |       | 2937 |       | 405  | 210  | 1.70 |
| 2500 RPM        |      |      |       |      |       |      | 800  | 2.60 |

DRIVEABILITY DEMERITS 6

\*\*\*\*\* SETTING 6 \*\*\*\*\*

A/F SPEC. RPM EXP. TIMING SPEC. CHOKE EXP.

TEST NO:C0940

11/12/73 BAR:24.70 DB:71 WB:49  
REL.HUM:19.4% NOX COR: .814

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.71  | 103.1 | 260.1 | 0.86 | 19.95 |     |     |      |
| COLD STABILIZED | 7.28  | 76.4  | 304.9 | 0.76 | 19.88 |     |     |      |
| HOT TRANSIENT   | 11.31 | 77.1  | 247.8 | 0.89 | 22.00 |     |     |      |
| 1975 COMPOSITE  | 8.49  | 82.2  | 279.7 | 0.82 | 20.45 |     |     |      |
| IDLE KEYMODE    | 4045  | 3.08  |       | 65   |       | 430 | 270 | 2.90 |
| LOW CR. KEYMODE | 2369  | 2.75  |       | 556  |       | 246 | 170 | 2.50 |
| HI. CR. KEYMODE | 2656  | 5.89  |       | 557  |       | 285 | 180 | 4.80 |
| 2500 RPM        |       |       |       |      |       |     | 155 | 3.50 |

DRIVEABILITY DEMERITS 4

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE 289

1969 VOLK SEDA 91 2000LBS TUNE UP EVALUATION  
4CYL 1BBL 4 SPEED 063512 MILES HAS: EMC, NO EVC, NO PCV

RUN NUMBER 25

\*\*\*\*\* SETTING 7 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING EXP. CHOKE EXP.

TEST NO:C0954

11/13/73 BAR:24.50 DB:76 WB:52  
REL.HUM:19.1% NOX COR: .828

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.42 | 105.6 | 287.2 | 0.97 | 18.81 |     |     |      |
| COLD STABILIZED | 4.73 | 70.9  | 311.8 | 0.81 | 20.32 |     |     |      |
| HOT TRANSIENT   | 3.74 | 76.1  | 266.9 | 0.97 | 22.35 |     |     |      |
| 1975 COMPOSITE  | 4.81 | 79.6  | 294.2 | 0.89 | 20.50 |     |     |      |
| IDLE KEYMODE    | 3326 | 5.13  |       | 69   |       | 259 | 135 | 3.90 |
| LOW CR. KEYMODE | 2420 | 2.85  |       | 873  |       | 316 | 145 | 2.30 |
| HI. CR. KEYMODE | 2417 | 5.51  |       | 688  |       | 303 | 125 | 4.90 |
| 2500 RPM        |      |       |       |      |       |     | 125 | 3.00 |

DRIVEABILITY DEMERITS 1

\*\*\*\*\* SETTING 8 \*\*\*\*\*

A/F SPEC. RPM SPEC. TIMING SPEC. CHOKE SPEC.

TEST NO:C0970

11/14/73 BAR:24.43 DB:76 WB:53  
REL.HUM:21.8% NOX COR: .843

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.36 | 92.7 | 244.1 | 1.44 | 21.72 |     |     |      |
| COLD STABILIZED | 5.23 | 75.4 | 274.5 | 1.22 | 21.75 |     |     |      |
| HOT TRANSIENT   | 5.03 | 70.3 | 225.3 | 1.44 | 25.33 |     |     |      |
| 1975 COMPOSITE  | 5.41 | 77.6 | 254.5 | 1.33 | 22.64 |     |     |      |
| IDLE KEYMODE    | 3966 | 5.12 |       | 66   |       | 284 | 215 | 5.00 |
| LOW CR. KEYMODE | 2870 | 3.08 |       | 878  |       | 297 | 185 | 2.75 |
| HI. CR. KEYMODE | 3057 | 5.92 |       | 963  |       | 349 | 200 | 5.10 |
| 2500 RPM        |      |      |       |      |       |     | 190 | 4.00 |

DRIVEABILITY DEMERITS 0

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## 11. DATA REDUCTION - MANDATORY ENGINE MAINTENANCE

A detailed account of the data accumulation process is contained in volume II of this report. To facilitate discussion of data treatment after collection, the steps of the test sequence are listed in Table 4.

- |                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. Collect vehicle information (make, model, CID, etc.)</li><li>2. Initial exhaust emission test</li><li>3. Inspection of vehicle maintenance status</li><li>4. Maintenance performed and recorded</li><li>5. Exhaust emission test after maintenance</li></ol> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

TABLE 4. Data Collection Procedure

The vehicle information collected at step 1. required no data reduction.

### 11.1 EMISSION TESTS

The emission tests actually consisted of three separate tests, the 1975 Federal mass emission test, a key mode (Clayton Mfg. Co.) test, and an idle test.

#### 11.1.1 Federal Test Procedure

These tests were performed according to procedures stipulated in the Federal Register, Volume 38, Number 124, Part III dated June 28, 1973. The data is accumulated through the constant volume sampler technique in which diluted samples of the exhaust are collected in a bag. Simultaneously, samples of background air are also bagged. The test is divided into three parts with the exhaust sample from each portion being collected in a separate bag. The first portion is

designated the cold transient phase and lasts for the first 505 seconds of the driving schedule. The second is the cold stabilized phase and consists of the remaining 867 seconds of the driving schedule. The third portion is the hot transient phase and is a repeat of the cold transient phase. The data thus collected is then reduced to mass emissions using the equations shown in Appendix 1. The mass emissions of the exhaust can then be used to calculate fuel consumption with the equation developed in Appendix 2.

#### 11.1.2 Key Mode Test Procedure

Immediately following each mass emission test, a key mode test was performed using procedures outlined by Clayton Manufacturing Company of El Monte, California. The key mode consists of measuring exhaust concentrations during idle, a loaded low cruise steady state mode, and a loaded high cruise steady state mode. The concentration of each emit-tant is corrected as specified in CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES FOR 1972-MODEL GASOLINE-POWERED MOTOR VEHICLES UNDER 6001 POUNDS GROSS VEHICLE WEIGHT, as amended on February 17, 1971, which specifies that exhaust gas concentrations shall be adjusted to a dry exhaust volume containing 14.5 mole percent carbon atoms by applying the following dilution factor.

$$14.5/(\%CO_2 + (0.5)\% CO + (1.8 \times 6)\% HC)$$

This correction factor was not applied to the readings taken with garage type instruments.

#### 11.1.3 Idle Test Procedure

The idle test procedure is the procedure by which the inspection stations performed the initial vehicle inspection. This is specified to

be an exhaust concentration measurement of hydrocarbons and carbon monoxide at curb idle and at 2500 engine RPM (transmission in neutral). These measurements were taken with the garage type instrument. The curb idle portion of this test was taken simultaneous with the idle portion of the key mode.

#### 11.2 VEHICLE MAINTENANCE STATUS INSPECTION

Upon completion of the emission tests, the vehicle was moved to a staging area where the condition of various engine components and adjustments were ascertained by specified procedures as shown in Appendix 3. The results required no data reduction and were used as reported.

## 12. MANDATORY ENGINE MAINTENANCE DATA

The data presented on the following pages is divided into several sections which depend on the type of test performed or the type of information collected.

### 12.1 HEADING

The heading contains a physical description of the vehicle and indicates which tests were conducted using the vehicle.

The first line identifies the vehicle by an assigned number.

The second line identifies the following items:

1. Vehicle model year
2. Vehicle make
3. Vehicle model
4. Engine displacement in cubic inches
5. The inertia weight used during vehicle testing
6. The tests performed using the vehicle. SEA LEVEL RETROFIT indicates that in addition to idle inspection the vehicle was also utilized in the sea level retrofit evaluation. HIGH ALTITUDE RETROFIT indicates a high altitude retrofit test in addition to the idle inspection. TUNE UP EVALUATION indicates that in addition to the idle inspection the vehicle was also used in the modified tuning specifications program. COMBINATION RETROFIT indicates that after the idle inspection evaluation the vehicle was used to evaluate both sea level and altitude retrofits

The third line identifies these items:

1. Number of cylinders
2. Number of carburetor venturis
3. Transmission type
4. Number of miles the vehicle has been driven
5. Whether or not the vehicle has an emission control system, an evaporative control system, or a PCV valve.

### 12.2 MAINTENANCE STATUS

The data reported in this section reveals information concerning the state of various engine components and adjustments. The first line reports the status as the vehicle was received from the owner

while the second line gives the same information for the vehicle after the maintenance procedure. The data are represented in the following order.

- I. CO - This is a measurement of tailpipe carbon monoxide concentration in mole percent, measured with a lab type infra red instrument.
- I. RPM - Idle RPM, this is reported as a deviation from the manufacturer's specified setting. A positive value indicates an actual RPM higher than specified.
- TIM - Ignition timing, reported in degrees, as a deviation from the manufacturer's specified setting. A positive value indicates an advance in timing from specifications.
- DWL - Dwell, reported in degrees, as a deviation from the setting specified by the manufacturer. A positive value indicates a setting greater than specified.
- PCV - Indicates whether the PCV valve is functioning properly. NA indicates not applicable.
- A. CL - Indicates whether the air cleaner element is acceptable or not.
- CHOKE - Indicates if the choke is functioning properly.
- A. PMP - Indicates whether or not the air pump is operative properly.
- MISF. - Indicates ignition misfire.
- NOXC. - Indicates whether or not the NO<sub>x</sub> control is functioning properly.

### 12.3 AS RECIEVED FROM OWNER

The initial emission tests were performed on the vehicle in the condition in which it was delivered to the laboratory. The data from these tests are presented in this section. The first items are the test number, the date the test was conducted, and the ambient conditions at the time the test was performed. The ambient conditions are:

BAR: barometric pressure in inches of mercury.

DB: dry bulb temperature in degrees Fahrenheit.

WB: wet bulb temperature in degrees Fahrenheit.

REL. HUM: relative humidity in percent.

NOX COR: humidity correction factor applied to the oxides of nitrogen mass emissions.

#### 12.3.1 Federal Test Procedure

The first four lines of data are the results of the Federal Test Procedure. These results are reported as follows:

HC - Unburned hydrocarbons emitted during the test phase in grams per mile.

CO - Carbon monoxide emitted during the test phase in grams per mile.

CO<sub>2</sub> - Carbon dioxide emitted during the test phase in grams per mile.

NO<sub>x</sub> - Oxides of nitrogen emitted during the test phase in grams per mile nitrogen dioxide.

MPG - Fuel consumption in miles per gallon for the test phase.

#### 12.3.2 Key Mode Test Procedure

The next three lines are data obtained during the key mode test. These results are presented as follows:

HC - Concentration of unburned hydrocarbons in exhaust, reported in P.P.M. carbon.

CO - Concentration of carbon monoxide in exhaust, in mole percent.

NO<sub>x</sub> - Oxides of nitrogen in exhaust in P.P.M.

LHC\* - Concentration of unburned hydrocarbons in exhaust, in P.P.M. hexane.

SHC\* - Concentration of unburned hydrocarbons in exhaust, in P.P.M. hexane as measured with the garage type instrument.

SCO\* - Concentration of carbon monoxide in exhaust, reported in mole percent as measured with garage type instrument.

\* - LHC has a full scale value of 1600 P.P.M., SHC has a full scale value of 2000 P.P.M. and SCO has a full scale value of 10%. Off scale readings are reported as asterisks (\*\*\*\*).

### 12.3.3 Idle Test Procedure

Following the keymode test, the unburned hydrocarbons and carbon monoxide concentrations in the exhaust were measured with the engine operating at 2500 RPM and the transmission in neutral. The readings were taken with the garage type equipment and are reported on the last line as described in section 12.3.2.

### 12.4 AFTER MANDATORY ENGINE MAINTENANCE

After the vehicle underwent the mandatory engine maintenance, it was returned to the laboratory where a second emission test was performed to evaluate the effectiveness of the maintenance procedure. These tests followed the format of testing conducted when the vehicle was first received. Data are presented as described in section 12.3.

Following the listings of the emission data are the costs associated with performing the maintenance procedure.

### **13. LISTING OF DATA**

#### **MANDATORY ENGINE MAINTENANCE**

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 015

1967 FORD STAW 289 3500 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL 3 SPEED 60,240 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 8.60 | -0075 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 6.53 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0021 DATE: 08/13/73 BAROMETER: 24.94 WET BULB: 77 DRY BULB: 60  
RELATIVE HUMIDITY : 39.0% NOX HUMIDITY CORRECTION : .953

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 13.66 | 126.5 | 331.4 | 1.09 | 15.53 |     |     |      |
| COLD STABILIZED | 15.31 | 171.4 | 303.4 | 0.40 | 14.34 |     |     |      |
| HOT TRANSIENT   | 9.79  | 115.2 | 276.4 | 0.87 | 18.23 |     |     |      |
| 1975 COMPOSITE  | 13.43 | 146.4 | 301.8 | 0.67 | 15.51 |     |     |      |
| IDLE KEYMODE    | 19106 | 8.87  |       | 14   |       | 848 | 720 | 9.40 |
| LOW CR. KEYMODE | 5136  | 4.35  |       | 687  |       | 589 | 460 | 4.50 |
| HI. CR. KEYMODE | 5100  | 4.95  |       | 604  |       | 613 | 485 | 4.90 |
| 2500 RPM        |       |       |       |      |       |     | 345 | 5.90 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0055 DATE: 08/16/73 BAROMETER: 24.76 WET BULB: 78 DRY BULB: 57  
RELATIVE HUMIDITY : 28.6% NOX HUMIDITY CORRECTION : .891

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.24 | 95.7  | 363.6 | 1.26 | 16.40 |     |     |      |
| COLD STABILIZED | 9.62 | 109.0 | 351.6 | 0.60 | 16.10 |     |     |      |
| HOT TRANSIENT   | 8.13 | 120.7 | 281.1 | 0.71 | 17.94 |     |     |      |
| 1975 COMPOSITE  | 9.13 | 109.4 | 334.5 | 0.77 | 16.64 |     |     |      |
| IDLE KEYMODE    | 6671 | 6.53  |       | 34   |       | 605 | 800 | 6.00 |
| LOW CR. KEYMODE | 4644 | 4.05  |       | 675  |       | 562 | 900 | 4.20 |
| HI. CR. KEYMODE | 4162 | 4.24  |       | 570  |       | 478 | 720 | 4.50 |
| 2500 RPM        |      |       |       |      |       |     | 680 | 6.00 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 017

1966 CHEV BISC 283 4000 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 51,045 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 6.30        | +0190        | -18        | -01        | OK         | BAD         | BAD          | NA           | NO           | NA          |
| AFTER MTCE | 5.98        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0020 DATE: 08/13/73 BAROMETER: 24.94 WET BULB: 75 DRY BULB: 62  
RELATIVE HUMIDITY : 50.3% NOX HUMIDITY CORRECTION : 1.014

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 16.09     | 211.5     | 385.7      | 2.18       | 11.58      |            |            |            |
| COLD STABILIZED | 9.43      | 169.6     | 370.5      | 1.21       | 13.35      |            |            |            |
| HOT TRANSIENT   | 8.02      | 148.8     | 339.2      | 1.67       | 14.88      |            |            |            |
| 1975 COMPOSITE  | 10.43     | 172.6     | 365.0      | 1.54       | 13.31      |            |            |            |
| IDLE KEYMODE    | 6007      | 6.77      |            | 82         |            | 746        | 590        | 6.70       |
| LOW CR. KEYMODE | 5153      | 6.09      |            | 647        |            | 610        | 440        | 5.80       |
| HI. CR. KEYMODE | 4177      | 4.01      |            | 1723       |            | 425        | 295        | 4.10       |
| 2500 RPM        |           |           |            |            |            |            | 420        | 5.90       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0074 DATE: 08/18/73 BAROMETER: 24.77 WET BULB: 74 DRY BULB: 61  
RELATIVE HUMIDITY : 49.8% NOX HUMIDITY CORRECTION : 1.001

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 14.13     | 209.6     | 376.1      | 1.51       | 11.87      |            |            |            |
| COLD STABILIZED | 7.39      | 154.1     | 368.7      | 0.92       | 14.04      |            |            |            |
| HOT TRANSIENT   | 7.82      | 141.8     | 330.5      | 1.34       | 15.40      |            |            |            |
| 1975 COMPOSITE  | 8.92      | 162.3     | 359.7      | 1.16       | 13.86      |            |            |            |
| IDLE KEYMODE    | 5677      | 5.98      |            | 56         |            | 641        | 710        | 5.00       |
| LOW CR. KEYMODE | 4618      | 5.00      |            | 685        |            | 499        | 720        | 4.90       |
| HI. CR. KEYMODE | 4323      | 5.29      |            | 812        |            | 464        | 515        | 5.20       |
| 2500 RPM        |           |           |            |            |            |            | 565        | 5.00       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 021

1967 PLYM BELV 273 3500 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 70,009 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 6.30 | +0080 | -01 | +01 | OK  | OK   | BAD   | NA    | NO    | NA   |
| AFTER MTCE | 4.34 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0028 DATE: 08/14/73 BAROMETER: 24.80 WET BULB: 71 DRY BULB: 55  
RELATIVE HUMIDITY : 37.8% NOX HUMIDITY CORRECTION : .900

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.37 | 201.0 | 361.0 | 1.45 | 12.49 |     |     |      |
| COLD STABILIZED | 10.85 | 189.4 | 350.9 | 1.06 | 13.04 |     |     |      |
| HOT TRANSIENT   | 7.35  | 104.4 | 354.8 | 2.92 | 16.43 |     |     |      |
| 1975 COMPOSITE  | 9.98  | 168.2 | 354.1 | 1.66 | 13.70 |     |     |      |
| IDLE KEYMODE    | 5573  | 7.20  |       | 56   |       | 573 | 410 | 6.75 |
| LOW CR. KEYMODE | 4380  | 2.93  |       | 1633 |       | 491 | 345 | 3.00 |
| HI. CR. KEYMODE | 4489  | 5.48  |       | 852  |       | 442 | 305 | 5.20 |
| 2500 RPM        |       |       |       |      |       |     | 350 | 4.90 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0069 DATE: 08/17/73 BAROMETER: 24.77 WET BULB: 76 DRY BULB: 60  
RELATIVE HUMIDITY : 41.5% NOX HUMIDITY CORRECTION : .963

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.77 | 144.9 | 385.6 | 2.74 | 13.89 |     |     |      |
| COLD STABILIZED | 8.86 | 143.6 | 347.5 | 1.65 | 14.81 |     |     |      |
| HOT TRANSIENT   | 6.65 | 101.6 | 336.9 | 2.67 | 17.20 |     |     |      |
| 1975 COMPOSITE  | 8.23 | 132.2 | 352.5 | 2.16 | 15.19 |     |     |      |
| IDLE KEYMODE    | 5319 | 4.34  |       | 67   |       | 666 | 990 | 4.40 |
| LOW CR. KEYMODE | 4580 | 2.93  |       | 1577 |       | 537 | 800 | 3.20 |
| HI. CR. KEYMODE | 4681 | 5.89  |       | 716  |       | 486 | 690 | 5.90 |
| 2500 RPM        |      |       |       |      |       |     | 720 | 4.50 |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 025

1966 DODG VAN 273 3500 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL 3 SPEED 54,740 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 7.70 | +0030 | +13 | -03 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 1.63 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0032 DATE: 08/14/73 BAROMETER: 24.78 WET BULB: 79 DRY BULB: 60  
RELATIVE HUMIDITY : 34.8% NOX HUMIDITY CORRECTION : .942

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 15.82 | 124.3 | 313.9 | 2.49 | 15.92 |     |     |      |
| COLD STABILIZED | 28.82 | 206.9 | 254.2 | 0.56 | 13.28 |     |     |      |
| HOT TRANSIENT   | 14.76 | 167.3 | 242.7 | 0.93 | 16.12 |     |     |      |
| 1975 COMPOSITE  | 22.20 | 178.7 | 263.5 | 1.07 | 14.50 |     |     |      |
| IDLE KEYMODE    | 11411 | 8.96  |       | 40   |       | 704 | 640 | 8.40 |
| LOW CR. KEYMODE | 6062  | 8.45  |       | 367  |       | 748 | 700 | 8.20 |
| HI. CR. KEYMODE | 4845  | 5.65  |       | 1106 |       | 526 | 480 | 7.80 |
| 2500 RPM        |       |       |       |      |       |     | 200 | 3.60 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0060 DATE: 08/17/73 BAROMETER: 24.75 WET BULB: 75 DRY BULB: 60  
RELATIVE HUMIDITY : 43.9% NOX HUMIDITY CORRECTION : .971

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|------|-------|
| COLD TRANSIENT  | 14.40 | 195.8 | 280.1 | 1.17 | 14.06 |     |      |       |
| COLD STABILIZED | 18.79 | 200.6 | 296.1 | 0.78 | 13.28 |     |      |       |
| HOT TRANSIENT   | 14.61 | 208.9 | 236.1 | 0.73 | 14.58 |     |      |       |
| 1975 COMPOSITE  | 16.71 | 201.9 | 276.1 | 0.85 | 13.79 |     |      |       |
| IDLE KEYMODE    | 6508  | 1.63  |       | 63   |       | 952 | 1500 | 1.35  |
| LOW CR. KEYMODE | 6725  | 9.74  |       | 235  |       | 805 | 1000 | 9.40  |
| HI. CR. KEYMODE | 6499  | 12.20 |       | 171  |       | 722 | 1060 | 10.00 |
| 2500 RPM        |       |       |       |      |       |     | 2000 | 7.20  |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 028

1964 OLDS STAW 330 4000 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 89,020 MILES HAS: NO EMC, NO EVC, NO PCV

----- MAINTENANCE STATUS -----

|            | I.CO  | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|-------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 11.20 | +0000 | +03 | -10 | NA  | BAD  | BAD   | NA    | NO    | NA   |
| AFTER MTCE | 6.32  | +0000 | +00 | +00 | NA  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0035 DATE: 08/15/73 BAROMETER: 24.87 WET BULB: 68 DRY BULB: 55  
RELATIVE HUMIDITY : 45.9% NOX HUMIDITY CORRECTION : .918

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO   |
|-----------------|-------|-------|-------|------|-------|------|------|-------|
| COLD TRANSIENT  | 14.56 | 195.4 | 468.1 | 2.28 | 10.84 |      |      |       |
| COLD STABILIZED | 17.39 | 206.0 | 395.3 | 1.05 | 11.51 |      |      |       |
| HOT TRANSIENT   | 12.17 | 199.6 | 402.8 | 1.66 | 11.80 |      |      |       |
| 1975 COMPOSITE  | 15.35 | 202.0 | 412.6 | 1.47 | 11.44 |      |      |       |
| IDLE KEYMODE    | 38839 | 10.09 |       | 5    |       | 1373 | 1720 | ***** |
| LOW CR. KEYMODE | 5481  | 7.18  |       | 356  |       | 613  | 535  | 7.40  |
| HI. CR. KEYMODE | 5504  | 9.08  |       | 305  |       | 541  | 500  | 9.80  |
| 2500 RPM        |       |       |       |      |       |      | 800  | 5.20  |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0096 DATE: 08/21/73 BAROMETER: 24.80 WET BULB: 76 DRY BULB: 57  
RELATIVE HUMIDITY : 32.5% NOX HUMIDITY CORRECTION : .903

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 9.72 | 184.0 | 484.7 | 1.16 | 11.07 |     |     |       |
| COLD STABILIZED | 7.18 | 190.7 | 440.5 | 0.59 | 11.67 |     |     |       |
| HOT TRANSIENT   | 6.25 | 161.4 | 401.6 | 0.90 | 13.19 |     |     |       |
| 1975 COMPOSITE  | 7.45 | 181.2 | 439.0 | 0.80 | 11.92 |     |     |       |
| IDLE KEYMODE    | 5507 | 6.32  |       | 52   |       | 666 | 890 | 6.20  |
| LOW CR. KEYMODE | 4535 | 5.84  |       | 280  |       | 483 | 560 | 5.80  |
| HI. CR. KEYMODE | 5153 | 10.19 |       | 116  |       | 490 | 560 | 10.00 |
| 2500 RPM        |      |       |       |      |       |     | 350 | 3.90  |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 029

1965 PONT TEMP 326 3500 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 59,585 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 7.30 | -0010 | -12 | +02 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 6.45 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0036 DATE: 08/15/73 BAROMETER: 24.87 WET BULB: 68 DRY BULB: 54  
RELATIVE HUMIDITY : 42.3% NOX HUMIDITY CORRECTION : .901

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 15.56 | 234.1 | 396.4 | 0.71 | 10.95 |     |     |       |
| COLD STABILIZED | 10.61 | 193.7 | 366.8 | 0.52 | 12.63 |     |     |       |
| HOT TRANSIENT   | 8.81  | 163.8 | 328.7 | 0.72 | 14.50 |     |     |       |
| 1975 COMPOSITE  | 11.15 | 193.9 | 362.4 | 0.61 | 12.68 |     |     |       |
| IDLE KEYMODE    | 8490  | 8.41  |       | .35  |       | 845 | 760 | 8.20  |
| LOW CR. KEYMODE | 4474  | 3.02  |       | 529  |       | 463 | 360 | 3.20  |
| HI. CR. KEYMODE | 5992  | 11.41 |       | 97   |       | 632 | 520 | ***** |
| 2500 RPM        |       |       |       |      |       |     | 375 | 5.15  |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0070 DATE: 08/17/73 BAROMETER: 24.77 WET BULB: 71 DRY BULB: 56  
RELATIVE HUMIDITY : 41.1% NOX HUMIDITY CORRECTION : .918

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 9.76 | 174.6 | 371.7 | 1.07 | 13.16 |     |      |      |
| COLD STABILIZED | 8.23 | 160.4 | 385.1 | 0.73 | 13.43 |     |      |      |
| HOT TRANSIENT   | 7.28 | 144.1 | 339.0 | 1.08 | 15.13 |     |      |      |
| 1975 COMPOSITE  | 8.29 | 158.9 | 369.5 | 0.90 | 13.80 |     |      |      |
| IDLE KEYMODE    | 5785 | 6.45  |       | 74   |       | 699 | 1200 | 6.20 |
| LOW CR. KEYMODE | 4752 | 2.75  |       | 913  |       | 521 | 790  | 3.10 |
| HI. CR. KEYMODE | 5187 | 6.78  |       | 374  |       | 544 | 800  | 7.00 |
| 2500 RPM        |      |       |       |      |       |     | 650  | 4.80 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 035

1965 DODG POLA 383 4000 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 64,463 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 4.30 | +0240 | +02 | -03 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 4.70 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0046 DATE: 08/16/73 BAROMETER: 24.78 WET BULB: 73 DRY BULB: 55  
RELATIVE HUMIDITY : 33.1% NOX HUMIDITY CORRECTION : .888

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.54 | 195.4 | 453.6 | 1.85 | 11.21 |     |     |      |
| COLD STABILIZED | 6.88  | 132.7 | 494.0 | 2.08 | 12.29 |     |     |      |
| HOT TRANSIENT   | 6.32  | 133.0 | 432.7 | 2.09 | 13.46 |     |     |      |
| 1975 COMPOSITE  | 7.49  | 145.9 | 468.5 | 2.03 | 12.35 |     |     |      |
| IDLE KEYMODE    | 4359  | 4.70  |       | 73   |       | 475 | 595 | 4.50 |
| LOW CR. KEYMODE | 4574  | 4.62  |       | 828  |       | 531 | 665 | 4.40 |
| HI. CR. KEYMODE | 4565  | 6.37  |       | 606  |       | 464 | 550 | 6.10 |
| 2500 RPM        |       |       |       |      |       |     | 270 | 2.30 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0046 DATE: 08/16/73 BAROMETER: 24.78 WET BULB: 73 DRY BULB: 55  
RELATIVE HUMIDITY : 33.1% NOX HUMIDITY CORRECTION : .888

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.54 | 195.4 | 453.6 | 1.85 | 11.21 |     |     |      |
| COLD STABILIZED | 6.88  | 132.7 | 494.0 | 2.08 | 12.29 |     |     |      |
| HOT TRANSIENT   | 6.32  | 133.0 | 432.7 | 2.09 | 13.46 |     |     |      |
| 1975 COMPOSITE  | 7.49  | 145.9 | 468.5 | 2.03 | 12.35 |     |     |      |
| IDLE KEYMODE    | 4359  | 4.70  |       | 73   |       | 475 | 595 | 4.50 |
| LOW CR. KEYMODE | 4574  | 4.62  |       | 828  |       | 531 | 665 | 4.40 |
| HI. CR. KEYMODE | 4565  | 6.37  |       | 606  |       | 464 | 550 | 6.10 |
| 2500 RPM        |       |       |       |      |       |     | 270 | 2.30 |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 037

1964 FORD FAIR 289 3500 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL 3 SPEED 52,629 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 0.57 | -0137 | +06 | +05 | BAD | BAD  | OK    | NA    | YES   | NA   |
| AFTER MTCE | 8.51 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0045 DATE: 08/16/73 BAROMETER: 24.78 WET BULB: 72 DRY BULB: 54  
RELATIVE HUMIDITY : 32.3% NOX HUMIDITY CORRECTION : .877

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 9.16 | 113.0 | 459.1 | 2.66 | 13.38 |     |      |      |
| COLD STABILIZED | 9.67 | 152.7 | 422.5 | 1.06 | 12.85 |     |      |      |
| HOT TRANSIENT   | 7.09 | 98.8  | 393.4 | 2.04 | 15.59 |     |      |      |
| 1975 COMPOSITE  | 8.85 | 129.5 | 422.1 | 1.67 | 13.63 |     |      |      |
| IDLE KEYMODE    | 5717 | 0.71  |       | 49   |       | 802 | 1620 | 0.70 |
| LOW CR. KEYMODE | 4199 | 3.93  |       | 577  |       | 435 | 495  | 3.95 |
| HI. CR. KEYMODE | 3958 | 3.28  |       | 1453 |       | 441 | 525  | 3.30 |
| 2500 RPM        |      |       |       |      |       |     | 340  | 4.40 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0105 DATE: 08/22/73 BAROMETER: 24.80 WET BULB: 76 DRY BULB: 59  
RELATIVE HUMIDITY : 38.4% NOX HUMIDITY CORRECTION : .941

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 12.06 | 119.8 | 393.2 | 1.39 | 14.37 |     |      |      |
| COLD STABILIZED | 14.33 | 176.1 | 369.7 | 0.72 | 12.87 |     |      |      |
| HOT TRANSIENT   | 9.48  | 109.2 | 343.8 | 1.30 | 16.33 |     |      |      |
| 1975 COMPOSITE  | 12.51 | 145.8 | 367.4 | 1.02 | 14.00 |     |      |      |
| IDLE KEYMODE    | 17426 | 8.51  |       | 19   |       | 809 | 1020 | 9.20 |
| LOW CR. KEYMODE | 3696  | 3.38  |       | 265  |       | 383 | 300  | 3.50 |
| HI. CR. KEYMODE | 3693  | 3.23  |       | 980  |       | 414 | 350  | 3.30 |
| 2500 RPM        |       |       |       |      |       |     | 210  | 4.00 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 039

1968 PONT VENT 428 4500 LBS TUNE UP EVALUATION  
8 CYL 4 BBL AUTOMATIC 69,716 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.60        | +0150        | +03        | +03        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 7.76        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0062 DATE: 08/17/73 BAROMETER: 24.75 WET BULB: 75 DRY BULB: 56  
RELATIVE HUMIDITY : 31.8% NOX HUMIDITY CORRECTION : .893

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.44      | 86.0      | 484.0      | 2.89       | 14.06      |            |            |            |
| COLD STABILIZED | 5.02      | 127.7     | 473.4      | 1.36       | 12.91      |            |            |            |
| HOT TRANSIENT   | 3.87      | 78.3      | 437.6      | 2.93       | 15.54      |            |            |            |
| 1975 COMPOSITE  | 4.58      | 105.3     | 465.7      | 2.12       | 13.80      |            |            |            |
| IDLE KEYMODE    | 3464      | 3.88      |            | 111        |            | 330        | 530        | 3.60       |
| LOW CR. KEYMODE | 3156      | 2.07      |            | 1594       |            | 318        | 480        | 2.00       |
| HI. CR. KEYMODE | 3147      | 3.49      |            | 1384       |            | 286        | 410        | 3.40       |
| 2500 RPM        |           |           |            |            |            |            | 285        | 2.30       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0199 DATE: 08/31/73 BAROMETER: 24.53 WET BULB: 73 DRY BULB: 57  
RELATIVE HUMIDITY : 39.5% NOX HUMIDITY CORRECTION : .926

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 13.90     | 97.9      | 628.1      | 2.62       | 10.78      |            |            |            |
| COLD STABILIZED | 8.57      | 114.0     | 565.8      | 2.17       | 11.53      |            |            |            |
| HOT TRANSIENT   | 9.80      | 76.9      | 507.4      | 2.60       | 13.51      |            |            |            |
| 1975 COMPOSITE  | 10.03     | 100.3     | 562.7      | 2.38       | 11.84      |            |            |            |
| IDLE KEYMODE    | 5596      | 7.76      |            | 50         |            | 781        | 400        | 6.90       |
| LOW CR. KEYMODE | 2961      | 1.63      |            | 794        |            | 629        | 200        | 1.40       |
| HI. CR. KEYMODE | 2037      | 2.35      |            | 694        |            | 514        | 430        | 1.90       |
| 2500 RPM        |           |           |            |            |            |            | ****       | 0.20       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 040

1968 FORD CUST 302 4000 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 19,445 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 2.80        | +0050        | +06        | +03        | BAD        | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 1.91        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0048 DATE: 08/16/73 BAROMETER: 24.78 WET BULB: 77 DRY BULB: 58  
RELATIVE HUMIDITY : 33.3% NOX HUMIDITY CORRECTION : .915

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.69      | 65.4      | 511.8      | 5.52       | 14.08      |            |            |            |
| COLD STABILIZED | 4.39      | 47.5      | 527.3      | 4.84       | 14.46      |            |            |            |
| HOT TRANSIENT   | 3.97      | 38.8      | 457.4      | 6.22       | 16.77      |            |            |            |
| 1975 COMPOSITE  | 4.55      | 48.8      | 504.7      | 5.37       | 14.95      |            |            |            |
| IDLE KEYMODE    | 3340      | 3.09      |            | 185        |            | 330        | 470        | 3.15       |
| LOW CR. KEYMODE | 3589      | 0.55      |            | 3112       |            | 384        | 485        | 0.60       |
| HI. CR. KEYMODE | 3181      | 0.26      |            | 3882       |            | 284        | 343        | 0.32       |
| 2500 RPM        |           |           |            |            |            |            | 210        | 1.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0084 DATE: 08/20/73 BAROMETER: 24.90 WET BULB: 81 DRY BULB: 65  
RELATIVE HUMIDITY : 44.5% NOX HUMIDITY CORRECTION : 1.046

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.28      | 71.4      | 522.6      | 3.53       | 13.67      |            |            |            |
| COLD STABILIZED | 3.56      | 42.0      | 577.8      | 3.05       | 13.59      |            |            |            |
| HOT TRANSIENT   | 3.45      | 40.4      | 487.6      | 3.93       | 15.84      |            |            |            |
| 1975 COMPOSITE  | 3.89      | 47.7      | 541.3      | 3.40       | 14.17      |            |            |            |
| IDLE KEYMODE    | 2854      | 1.91      |            | 269        |            | 296        | 180        | 1.80       |
| LOW CR. KEYMODE | 2965      | 0.49      |            | 1940       |            | 289        | 220        | 0.60       |
| HI. CR. KEYMODE | 2473      | 0.28      |            | 2566       |            | 204        | 130        | 0.30       |
| 2500 RPM        |           |           |            |            |            |            | 90         | 1.20       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 041

1970 CHEV NOVA 230 3000 LBS SEA LEVEL RETROFIT  
6 CYL 2 BBL AUTOMATIC 30,980 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM  | DWL  | PCV  | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|------|------|------|------|-------|-------|-------|------|
|            | ---- | ----  | ---- | ---- | ---- | ---- | ----  | ----  | ----  | ---- |
| FROM OWNER | 8.20 | +0100 | +16  | -13  | BAD  | OK   | OK    | OK    | NO    | NA   |
| AFTER MTCE | 2.26 | +0000 | +00  | +00  | OK   | OK   | OK    | OK    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0047 DATE: 08/16/73 BAROMETER: 24.78 WET BULB: 75 DRY BULB: 56  
RELATIVE HUMIDITY : 31.8% NOX HUMIDITY CORRECTION : .892

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|------|------|------|
|                 | ---- | ---- | ----  | ---- | ----  | ---- | ---- | ---- |
| COLD TRANSIENT  | 4.93 | 72.5 | 435.4 | 4.01 | 15.77 |      |      |      |
| COLD STABILIZED | 4.60 | 64.0 | 417.3 | 2.97 | 16.73 |      |      |      |
| HOT TRANSIENT   | 3.95 | 53.3 | 366.0 | 4.30 | 19.27 |      |      |      |
| 1975 COMPOSITE  | 4.49 | 62.8 | 406.9 | 3.56 | 17.14 |      |      |      |
| IDLE KEYMODE    | 5848 | 8.96 |       | 68   |       | 708  | 960  | 8.70 |
| LOW CR. KEYMODE | 3987 | 1.50 |       | 1892 |       | 409  | 480  | 1.60 |
| HI. CR. KEYMODE | 3962 | 3.95 |       | 1299 |       | 368  | 430  | 3.95 |
| 2500 RPM        |      |      |       |      |       |      | 130  | 0.70 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0095 DATE: 08/21/73 BAROMETER: 24.81 WET BULB: 78 DRY BULB: 60  
RELATIVE HUMIDITY : 36.9% NOX HUMIDITY CORRECTION : .948

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|------|------|------|
|                 | ---- | ---- | ----  | ---- | ----  | ---- | ---- | ---- |
| COLD TRANSIENT  | 5.53 | 76.9 | 449.7 | 3.26 | 15.15 |      |      |      |
| COLD STABILIZED | 3.62 | 29.1 | 466.9 | 2.68 | 16.99 |      |      |      |
| HOT TRANSIENT   | 3.27 | 34.8 | 376.2 | 3.64 | 20.18 |      |      |      |
| 1975 COMPOSITE  | 3.92 | 40.7 | 438.1 | 3.07 | 17.31 |      |      |      |
| IDLE KEYMODE    | 4723 | 2.26 |       | 104  |       | 570  | 760  | 2.40 |
| LOW CR. KEYMODE | 4133 | 1.34 |       | 1478 |       | 443  | 520  | 1.50 |
| HI. CR. KEYMODE | 4078 | 3.36 |       | 1200 |       | 392  | 420  | 3.50 |
| 2500 RPM        |      |      |       |      |       |      | 95   | 0.25 |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 19.41 TOTAL= 42.21

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 042

1969 PLYM BELV 318 3500 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 39,269 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO<br>--- | I.RPM<br>--- | TIM<br>--- | DWL<br>--- | PCV<br>--- | A.CL<br>--- | CHOKE<br>--- | A.PMP<br>--- | MISF.<br>--- | NOXC<br>--- |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.90        | +0250        | +00        | +03        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 5.69        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0061 DATE: 08/17/73 BAROMETER: 24.74 WET BULB: 74 DRY BULB: 54  
RELATIVE HUMIDITY : 28.1% NOX HUMIDITY CORRECTION : .866

|                 | HC<br>--- | CO<br>--- | CO2<br>--- | NOX<br>--- | MPG<br>--- | LHC<br>--- | SHC<br>--- | SCO<br>--- |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.03      | 81.5      | 438.6      | 3.41       | 15.20      |            |            |            |
| COLD STABILIZED | 5.72      | 74.6      | 456.8      | 3.36       | 15.04      |            |            |            |
| HOT TRANSIENT   | 4.67      | 56.9      | 405.6      | 3.82       | 17.47      |            |            |            |
| 1975 COMPOSITE  | 5.49      | 71.1      | 438.8      | 3.50       | 15.68      |            |            |            |
| IDLE KEYMODE    | 4667      | 6.27      |            | 78         |            | 481        | 640        | 5.90       |
| LOW CR. KEYMODE | 4266      | 0.87      |            | 2470       |            | 461        | 665        | 0.95       |
| HI. CR. KEYMODE | 3929      | 2.48      |            | 1635       |            | 358        | 500        | 2.45       |
| 2500 RPM        |           |           |            |            |            |            | 400        | 2.30       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0106 DATE: 08/22/73 BAROMETER: 24.80 WET BULB: 75 DRY BULB: 59  
RELATIVE HUMIDITY : 40.8% NOX HUMIDITY CORRECTION : .948

|                 | HC<br>--- | CO<br>--- | CO2<br>--- | NOX<br>--- | MPG<br>--- | LHC<br>--- | SHC<br>--- | SCO<br>--- |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.48      | 83.3      | 387.0      | 3.24       | 16.64      |            |            |            |
| COLD STABILIZED | 4.78      | 63.9      | 402.0      | 3.41       | 17.21      |            |            |            |
| HOT TRANSIENT   | 4.26      | 48.7      | 360.6      | 3.88       | 19.76      |            |            |            |
| 1975 COMPOSITE  | 4.78      | 63.8      | 387.4      | 3.50       | 17.72      |            |            |            |
| IDLE KEYMODE    | 4675      | 5.69      |            | 64         |            | 507        | 470        | 5.70       |
| LOW CR. KEYMODE | 3850      | 0.86      |            | 2571       |            | 439        | 360        | 0.90       |
| HI. CR. KEYMODE | 3381      | 2.28      |            | 1687       |            | 324        | 240        | 2.40       |
| 2500 RPM        |           |           |            |            |            |            | 275        | 2.40       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 043

1971 FORD MAVE 170 2750 LBS SEA LEVEL RETROFIT  
6 CYL 2 BBL 3 SPEED 20,583 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 6.10        | +0060        | +00        | +04        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 3.43        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0064 DATE: 08/17/73 BAROMETER: 24.75 WET BULB: 77 DRY BULB: 62  
RELATIVE HUMIDITY : 45.2% NOX HUMIDITY CORRECTION : 1.002

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.71      | 65.5      | 270.9      | 2.68       | 22.36      |            |            |            |
| COLD STABILIZED | 5.25      | 63.9      | 281.6      | 2.18       | 22.34      |            |            |            |
| HOT TRANSIENT   | 4.94      | 57.2      | 252.2      | 2.70       | 24.89      |            |            |            |
| 1975 COMPOSITE  | 5.68      | 62.4      | 271.2      | 2.43       | 23.00      |            |            |            |
| IDLE KEYMODE    | 4497      | 5.99      |            | 56         |            | 445        | 730        | 6.90       |
| LOW CR. KEYMODE | 3879      | 1.54      |            | 1830       |            | 463        | 800        | 2.10       |
| HI. CR. KEYMODE | 3912      | 2.09      |            | 1777       |            | 480        | 800        | 2.30       |
| 2500 RPM        |           |           |            |            |            |            | 640        | 2.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0093 DATE: 08/21/73 BAROMETER: 24.85 WET BULB: 76 DRY BULB: 59  
RELATIVE HUMIDITY : 38.4% NOX HUMIDITY CORRECTION : .941

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.62      | 63.9      | 293.3      | 2.66       | 21.64      |            |            |            |
| COLD STABILIZED | 4.48      | 63.0      | 297.8      | 2.10       | 21.67      |            |            |            |
| HOT TRANSIENT   | 4.13      | 56.7      | 266.2      | 2.50       | 24.18      |            |            |            |
| 1975 COMPOSITE  | 4.62      | 61.4      | 288.1      | 2.33       | 22.31      |            |            |            |
| IDLE KEYMODE    | 3554      | 3.43      |            | 69         |            | 311        | 400        | 3.20       |
| LOW CR. KEYMODE | 3527      | 0.96      |            | 2539       |            | 383        | 510        | 0.90       |
| HI. CR. KEYMODE | 4626      | 6.18      |            | 909        |            | 573        | 810        | 6.00       |
| 2500 RPM        |           |           |            |            |            |            | 600        | 0.40       |

MANDATORY MAINTENANCE COST: LABOR= 19.20 PARTS= 18.55 TOTAL= 37.75

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 045

1972 DODG DART 225      3000 LBS      SEA LEVEL RETROFIT  
6 CYL 1 BBL AUTOMATIC      5,414 MILES      HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.60        | +0550        | +09        | -12        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 2.57        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0066    DATE: 08/17/73    BAROMETER: 24.76    WET BULB: 72    DRY BULB: 54  
RELATIVE HUMIDITY : 32.3%    NOX HUMIDITY CORRECTION : .878

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.22      | 145.2     | 356.0      | 2.59       | 14.83      |            |            |            |
| COLD STABILIZED | 3.49      | 75.9      | 370.4      | 3.13       | 17.79      |            |            |            |
| HOT TRANSIENT   | 3.34      | 89.8      | 329.0      | 3.33       | 18.53      |            |            |            |
| 1975 COMPOSITE  | 3.81      | 94.2      | 355.9      | 3.07       | 17.26      |            |            |            |
| IDLE KEYMODE    | 3454      | 4.24      |            | 95         |            | 331        | 540        | 4.10       |
| LOW CR. KEYMODE | 3341      | 4.22      |            | 2321       |            | 703        | 460        | 3.20       |
| HI. CR. KEYMODE | 4196      | 10.09     |            | 281        |            | 415        | 600        | 10.00      |
| 2500 RPM        |           |           |            |            |            |            | 320        | 2.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0118    DATE: 08/23/73    BAROMETER: 24.81    WET BULB: 75    DRY BULB: 59  
RELATIVE HUMIDITY : 40.8%    NOX HUMIDITY CORRECTION : .948

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.42      | 141.3     | 343.7      | 3.03       | 15.28      |            |            |            |
| COLD STABILIZED | 3.20      | 66.9      | 363.4      | 3.20       | 18.61      |            |            |            |
| HOT TRANSIENT   | 3.05      | 81.6      | 308.5      | 3.10       | 19.95      |            |            |            |
| 1975 COMPOSITE  | 3.62      | 86.5      | 344.1      | 3.14       | 18.12      |            |            |            |
| IDLE KEYMODE    | 4122      | 2.57      |            | 90         |            | 553        | 600        | 2.40       |
| LOW CR. KEYMODE | 3084      | 3.42      |            | 1616       |            | 399        | 340        | 3.50       |
| HI. CR. KEYMODE | 3921      | 9.85      |            | 283        |            | 470        | 420        | 9.50       |
| 2500 RPM        |           |           |            |            |            |            | 240        | 3.00       |

MANDATORY MAINTENANCE COST: LABOR= 19.20    PARTS= 17.41    TOTAL= 36.61

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 057

1971 VOLK SEDA 97 2000 LBS TUNE UP EVALUATION  
4 CYL 1 BBL 4 SPEED 34,981 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 6.10 | +0030 | +00 | -05 | NA  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 1.33 | +0000 | +00 | +00 | NA  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0099 DATE: 08/22/73 BAROMETER: 24.80 WET BULB: 72 DRY BULB: 59  
RELATIVE HUMIDITY : 48.6% NOX HUMIDITY CORRECTION : .970

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.71 | 92.1  | 269.8 | 1.73 | 20.58 |     |     |      |
| COLD STABILIZED | 5.83 | 103.3 | 277.7 | 0.93 | 19.42 |     |     |      |
| HOT TRANSIENT   | 4.40 | 75.4  | 243.3 | 1.54 | 23.71 |     |     |      |
| 1975 COMPOSITE  | 5.41 | 93.2  | 266.5 | 1.27 | 20.71 |     |     |      |
| IDLE KEYMODE    | 4468 | 6.55  |       | 71   |       | 318 | 255 | 6.20 |
| LOW CR. KEYMODE | 3672 | 3.87  |       | 691  |       | 341 | 250 | 3.80 |
| HI. CR. KEYMODE | 2968 | 2.72  |       | 1574 |       | 252 | 190 | 2.95 |
| 2500 RPM        |      |       |       |      |       |     | 160 | 3.50 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0228 DATE: 09/05/73 BAROMETER: 24.86 WET BULB: 76 DRY BULB: 56  
RELATIVE HUMIDITY : 29.6% NOX HUMIDITY CORRECTION : .885

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.29 | 66.4 | 253.9 | 2.00 | 23.96 |     |     |      |
| COLD STABILIZED | 3.44 | 64.5 | 277.4 | 1.07 | 22.85 |     |     |      |
| HOT TRANSIENT   | 3.45 | 62.8 | 228.2 | 1.47 | 26.36 |     |     |      |
| 1975 COMPOSITE  | 3.62 | 64.4 | 258.8 | 1.37 | 23.98 |     |     |      |
| IDLE KEYMODE    | 2467 | 1.33 |       | 95   |       | 234 | 180 | 1.30 |
| LOW CR. KEYMODE | 3678 | 4.16 |       | 994  |       | 400 | 240 | 4.10 |
| HI. CR. KEYMODE | 3383 | 3.93 |       | 1694 |       | 359 | 205 | 3.80 |
| 2500 RPM        |      |      |       |      |       |     | 85  | 1.80 |

MANDATORY MAINTENANCE COST: LABOR= 24.00 PARTS= 10.55 TOTAL= 34.55

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 059

1965 CHEV STAW 327      4000 LBS      TUNE UP EVALUATION  
8 CYL 4 BBL AUTOMATIC      79,730 MILES      HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO  | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|-------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 10.90 | +0190 | -20 | -01 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 9.84  | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0101    DATE: 08/22/73    BAROMETER: 24.80    WET BULB: 71    DRY BULB: 58  
RELATIVE HUMIDITY : 47.9%    NOX HUMIDITY CORRECTION : .956

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 26.49 | 239.7 | 423.0 | 1.32 | 10.08 |     |     |       |
| COLD STABILIZED | 31.53 | 378.0 | 348.5 | 0.32 | 8.54  |     |     |       |
| HOT TRANSIENT   | 17.80 | 208.9 | 363.7 | 1.33 | 11.90 |     |     |       |
| 1975 COMPOSITE  | 26.67 | 302.1 | 368.3 | 0.81 | 9.61  |     |     |       |
| IDLE KEYMODE    | 9376  | 11.65 |       | 25   |       | 750 | 720 | ***** |
| LOW CR. KEYMODE | 4438  | 5.57  |       | 554  |       | 529 | 500 | 5.40  |
| HI. CR. KEYMODE | 3806  | 3.76  |       | 1246 |       | 408 | 355 | 3.70  |
| 2500 RPM        |       |       |       |      |       |     | 595 | 7.80  |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0226    DATE: 09/05/73    BAROMETER: 24.95    WET BULB: 71    DRY BULB: 54  
RELATIVE HUMIDITY : 34.5%    NOX HUMIDITY CORRECTION : .881

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 12.68 | 238.6 | 432.7 | 1.12 | 10.50 |     |     |       |
| COLD STABILIZED | 12.43 | 210.9 | 401.5 | 0.77 | 11.53 |     |     |       |
| HOT TRANSIENT   | 8.20  | 150.5 | 356.4 | 1.50 | 14.39 |     |     |       |
| 1975 COMPOSITE  | 11.31 | 199.9 | 395.5 | 1.05 | 11.95 |     |     |       |
| IDLE KEYMODE    | 22864 | 9.84  |       | 16   |       | 795 | 675 | ***** |
| LOW CR. KEYMODE | 4378  | 5.71  |       | 593  |       | 514 | 275 | 5.40  |
| HI. CR. KEYMODE | 3915  | 5.66  |       | 713  |       | 442 | 220 | 5.60  |
| 2500 RPM        |       |       |       |      |       |     | 380 | 8.90  |

MANDATORY MAINTENANCE COST: LABOR= 33.60    PARTS= 23.51    TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 070

1972 PONT CATA 400 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 16,700 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 5.10 | -0005 | +02 | -02 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 1.04 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0125 DATE: 08/24/73 BAROMETER: 24.73 WET BULB: 71 DRY BULB: 60  
RELATIVE HUMIDITY : 55.1% NOX HUMIDITY CORRECTION : 1.001

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.76 | 77.7 | 619.7 | 5.92 | 11.72 |     |     |      |
| COLD STABILIZED | 4.07 | 69.4 | 652.6 | 2.88 | 11.50 |     |     |      |
| HOT TRANSIENT   | 4.06 | 43.6 | 544.6 | 6.27 | 14.23 |     |     |      |
| 1975 COMPOSITE  | 4.42 | 64.0 | 615.8 | 4.45 | 12.20 |     |     |      |
| IDLE KEYMODE    | 4031 | 5.44 |       | 88   |       | 576 | 340 | 4.75 |
| LOW CR. KEYMODE | 2023 | 0.32 |       | 1019 |       | 306 | 90  | 0.35 |
| HI. CR. KEYMODE | 2466 | 0.32 |       | 4174 |       | 340 | 150 | 0.35 |
| 2500 RPM        |      |      |       |      |       |     | 45  | 0.70 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0173 DATE: 08/29/73 BAROMETER: 24.76 WET BULB: 74 DRY BULB: 58  
RELATIVE HUMIDITY : 40.1% NOX HUMIDITY CORRECTION : .936

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.70 | 85.8 | 643.8 | 5.26 | 11.18 |     |     |      |
| COLD STABILIZED | 3.03 | 35.1 | 689.4 | 2.64 | 11.81 |     |     |      |
| HOT TRANSIENT   | 3.27 | 28.2 | 560.6 | 5.62 | 14.47 |     |     |      |
| 1975 COMPOSITE  | 3.66 | 43.8 | 644.1 | 4.02 | 12.29 |     |     |      |
| IDLE KEYMODE    | 2869 | 1.04 |       | 100  |       | 428 | 250 | 3.40 |
| LOW CR. KEYMODE | 1291 | 0.22 |       | 865  |       | 288 | 80  | 0.70 |
| HI. CR. KEYMODE | 2302 | 0.25 |       | 3617 |       | 353 | 160 | 0.28 |
| 2500 RPM        |      |      |       |      |       |     | 40  | 0.35 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 073

1971 FORD TORI 351 3500 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 22,051 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 1.80 | +0450 | +04 | +06 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 0.10 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0123 DATE: 08/24/73 BAROMETER: 24.73 WET BULB: 70 DRY BULB: 55  
RELATIVE HUMIDITY : 40.4% NOX HUMIDITY CORRECTION : .907

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.37 | 50.4 | 555.6 | 4.07 | 13.67 |     |     |      |
| COLD STABILIZED | 4.51 | 47.9 | 523.0 | 3.00 | 14.54 |     |     |      |
| HOT TRANSIENT   | 3.99 | 34.9 | 478.8 | 4.11 | 16.30 |     |     |      |
| 1975 COMPOSITE  | 4.55 | 44.8 | 517.5 | 3.53 | 14.79 |     |     |      |
| IDLE KEYMODE    | 2992 | 2.06 |       | 119  |       | 490 | 290 | 1.90 |
| LOW CR. KEYMODE | 3314 | 0.38 |       | 1865 |       | 510 | 280 | 0.45 |
| HI. CR. KEYMODE | 3356 | 0.99 |       | 2077 |       | 425 | 250 | 1.05 |
| 2500 RPM        |      |      |       |      |       |     | 100 | 0.60 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0255 DATE: 09/07/73 BAROMETER: 24.59 WET BULB: 77 DRY BULB: 56  
RELATIVE HUMIDITY : 27.9% NOX HUMIDITY CORRECTION : .882

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.44 | 124.9 | 511.2 | 3.52 | 12.24 |     |     |      |
| COLD STABILIZED | 3.14 | 22.1  | 545.6 | 3.53 | 15.09 |     |     |      |
| HOT TRANSIENT   | 3.99 | 34.0  | 465.4 | 4.42 | 16.76 |     |     |      |
| 1975 COMPOSITE  | 4.06 | 46.9  | 516.1 | 3.78 | 14.78 |     |     |      |
| IDLE KEYMODE    | 2934 | 0.10  |       | 206  |       | 391 | 190 | 0.12 |
| LOW CR. KEYMODE | 2778 | 0.40  |       | 2190 |       | 324 | 220 | 0.40 |
| HI. CR. KEYMODE | 2725 | 1.17  |       | 2745 |       | 291 | 170 | 1.10 |
| 2500 RPM        |      |       |       |      |       |     | 900 | 0.75 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 074

1965 FORD FAIR 289 .3500 LBS TUNE UP EVALUATION

8 CYL 2 BBL AUTOMATIC 73,336 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 4.20        | +0100        | +09        | +02        | NA         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 5.69        | +0000        | +00        | +00        | NA         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0124 DATE: 08/24/73 BAROMETER: 24.73 WET BULB: 70 DRY BULB: 59  
RELATIVE HUMIDITY : 54.5% NOX HUMIDITY CORRECTION : .986

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.92      | 102.7     | 456.4      | 5.38       | 13.85      |            |            |            |
| COLD STABILIZED | 7.09      | 91.7      | 451.5      | 4.66       | 14.41      |            |            |            |
| HOT TRANSIENT   | 5.85      | 72.8      | 410.2      | 5.43       | 16.40      |            |            |            |
| 1975 COMPOSITE  | 6.92      | 88.7      | 441.1      | 5.02       | 14.79      |            |            |            |
| IDLE KEYMODE    | 4465      | 4.50      |            | 177        |            | 642        | 405        | 4.25       |
| LOW CR. KEYMODE | 3937      | 2.67      |            | 1567       |            | 609        | 375        | 2.70       |
| HI. CR. KEYMODE | 3475      | 2.01      |            | 2826       |            | 491        | 275        | 1.95       |
| 2500 RPM        |           |           |            |            |            |            | 450        | 3.10       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0240 DATE: 09/06/73 BAROMETER: 24.73 WET BULB: 80 DRY BULB: 56  
RELATIVE HUMIDITY : 22.5% NOX HUMIDITY CORRECTION : .863

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.19     | 162.8     | 426.2      | 2.27       | 12.47      |            |            |            |
| COLD STABILIZED | 7.24      | 92.0      | 421.6      | 2.42       | 15.12      |            |            |            |
| HOT TRANSIENT   | 5.65      | 70.7      | 406.6      | 3.55       | 16.62      |            |            |            |
| 1975 COMPOSITE  | 7.42      | 100.9     | 418.4      | 2.71       | 14.83      |            |            |            |
| IDLE KEYMODE    | 6557      | 5.69      |            | 69         |            | 575        | 410        | 5.40       |
| LOW CR. KEYMODE | 3622      | 2.66      |            | 1395       |            | 431        | 285        | 2.60       |
| HI. CR. KEYMODE | 3125      | 1.91      |            | 2326       |            | 344        | 208        | 1.90       |
| 2500 RPM        |           |           |            |            |            |            | 270        | 3.40       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 077

1972 CHEV IMPA 400 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 27,848 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 2.50        | +0060        | +04        | +01        | OK         | OK          | OK           | OK           | NO           | NA          |
| AFTER MTCE | 2.52        | +0000        | +00        | +00        | OK         | OK          | OK           | OK           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0136 DATE: 08/27/73 BAROMETER: 24.73 WET BULB: 71 DRY BULB: 54  
RELATIVE HUMIDITY : 34.6% NOX HUMIDITY CORRECTION : .884

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.65      | 84.1      | 672.0      | 3.10       | 10.87      |            |            |            |
| COLD STABILIZED | 2.16      | 52.4      | 720.8      | 1.97       | 10.99      |            |            |            |
| HOT TRANSIENT   | 2.81      | 56.3      | 569.6      | 3.18       | 13.35      |            |            |            |
| 1975 COMPOSITE  | 2.86      | 60.1      | 668.7      | 2.54       | 11.53      |            |            |            |
| IDLE KEYMODE    | 1829      | 2.83      |            | 34         |            | 284        | 90         | 2.70       |
| LOW CR. KEYMODE | 2521      | 0.67      |            | 1142       |            | 339        | 145        | 0.55       |
| HI. CR. KEYMODE | 2041      | 1.28      |            | 1400       |            | 263        | 100        | 1.20       |
| 2500 RPM        |           |           |            |            |            |            | 35         | 0.28       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0172 DATE: 08/29/73 BAROMETER: 24.77 WET BULB: 72 DRY BULB: 56  
RELATIVE HUMIDITY : 38.6% NOX HUMIDITY CORRECTION : .911

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.61      | 67.9      | 717.4      | 2.96       | 10.58      |            |            |            |
| COLD STABILIZED | 6.26      | 36.6      | 739.9      | 2.20       | 10.90      |            |            |            |
| HOT TRANSIENT   | 6.42      | 49.6      | 565.1      | 2.90       | 13.43      |            |            |            |
| 1975 COMPOSITE  | 6.17      | 46.8      | 686.7      | 2.55       | 11.42      |            |            |            |
| IDLE KEYMODE    | 6153      | 2.52      |            | 57         |            | 1059       | 790        | 1.85       |
| LOW CR. KEYMODE | 3216      | 0.41      |            | 1220       |            | 511        | 220        | 0.32       |
| HI. CR. KEYMODE | 1770      | 1.16      |            | 1261       |            | 349        | 75         | 1.10       |
| 2500 RPM        |           |           |            |            |            |            | 940        | 0.20       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 082

1971 PLYM STAW 383 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 50,843 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 4.70 | +0090 | -02 | +04 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 5.71 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0150 DATE: C8/28/73 BAROMETER: 24.71 WET BULB: 69 DRY BULB: 55  
RELATIVE HUMIDITY : 43.1% NOX HUMIDITY CORRECTION : .914

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.37 | 131.0 | 614.4 | 3.01 | 10.60 |     |     |      |
| COLD STABILIZED | 4.62 | 98.9  | 633.8 | 2.42 | 11.08 |     |     |      |
| HOT TRANSIENT   | 4.47 | 101.3 | 548.9 | 3.25 | 12.33 |     |     |      |
| 1975 COMPOSITE  | 4.94 | 106.3 | 606.2 | 2.77 | 11.29 |     |     |      |
| IDLE KEYMODE    | 3635 | 5.11  |       | 48   |       | 483 | 370 | 4.60 |
| LOW CR. KEYMODE | 3016 | 0.26  |       | 1474 |       | 416 | 270 | 0.30 |
| HI. CR. KEYMODE | 4133 | 6.53  |       | 353  |       | 482 | 460 | 6.70 |
| 2500 RPM        |      |       |       |      |       |     | 90  | 0.35 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0756 DATE: 10/25/73 BAROMETER: 24.66 WET BULB: 74 DRY BULB: 49  
RELATIVE HUMIDITY : 14.4% NOX HUMIDITY CORRECTION : .799

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.16 | 153.9 | 558.3 | 2.65 | 10.82 |     |     |      |
| COLD STABILIZED | 4.37 | 114.0 | 577.8 | 1.96 | 11.55 |     |     |      |
| HOT TRANSIENT   | 4.33 | 112.0 | 479.6 | 2.63 | 13.31 |     |     |      |
| 1975 COMPOSITE  | 4.94 | 121.8 | 546.5 | 2.29 | 11.82 |     |     |      |
| IDLE KEYMODE    | 4076 | 5.71  |       | 56   |       | 336 | 180 | 4.60 |
| LOW CR. KEYMODE | 2353 | 0.88  |       | 1722 |       | 312 | 140 | 0.50 |
| HI. CR. KEYMODE | 4231 | 10.83 |       | 185  |       | 490 | 270 | 8.40 |
| 2500 RPM        |      |       |       |      |       |     | 55  | 0.30 |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 091

1973 PONT LEMA 400 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 6,704 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 1.40        | +0010        | +00        | +03        | OK         | BAD         | OK           | NA           | NO           | BAD         |
| AFTER MTCE | 2.38        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | OK          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0162 DATE: 08/29/73 BAROMETER: 24.76 WET BULB: 70 DRY BULB: 56  
RELATIVE HUMIDITY : 43.8% NOX HUMIDITY CORRECTION : .924

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.06      | 67.3      | 724.6      | 2.27       | 10.56      |            |            |            |
| COLD STABILIZED | 3.19      | 39.0      | 701.5      | 2.42       | 11.52      |            |            |            |
| HOT TRANSIENT   | 3.07      | 31.7      | 598.3      | 4.40       | 13.54      |            |            |            |
| 1975 COMPOSITE  | 3.34      | 42.9      | 677.7      | 2.94       | 11.79      |            |            |            |
| IDLE KEYMODE    | 2217      | 1.46      |            | 147        |            | 353        | 145        | 1.55       |
| LOW CR. KEYMODE | 2475      | 0.16      |            | 2659       |            | 507        | 150        | 0.25       |
| HI. CR. KEYMODE | 2425      | 0.38      |            | 3167       |            | 472        | 130        | 0.40       |
| 2500 RPM        |           |           |            |            |            |            | 80         | 1.90       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0198 DATE: 08/31/73 BAROMETER: 24.53 WET BULB: 73 DRY BULB: 57  
RELATIVE HUMIDITY : 39.5% NOX HUMIDITY CORRECTION : .926

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.13      | 67.2      | 674.5      | 2.80       | 11.18      |            |            |            |
| COLD STABILIZED | 3.25      | 35.6      | 678.1      | 2.85       | 11.96      |            |            |            |
| HOT TRANSIENT   | 3.40      | 36.9      | 543.3      | 5.29       | 14.55      |            |            |            |
| 1975 COMPOSITE  | 3.69      | 42.6      | 640.0      | 3.51       | 12.40      |            |            |            |
| IDLE KEYMODE    | 2991      | 2.38      |            | 154        |            | 628        | 190        | 2.25       |
| LOW CR. KEYMODE | 2643      | 0.34      |            | 1879       |            | 579        | 180        | 0.30       |
| HI. CR. KEYMODE | 2786      | 0.69      |            | 3575       |            | 565        | 155        | 0.73       |
| 2500 RPM        |           |           |            |            |            |            | 90         | 1.80       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 098

1972 FORD MAVE 302 3000 LBS COMBINATION RETROFIT  
8 CYL 2 BBL AUTOMATIC 26,575 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 4.15 | +0060 | +00 | -09 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 3.92 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0192 DATE: 08/31/73 BAROMETER: 24.49 WET BULB: 74 DRY BULB: 57  
RELATIVE HUMIDITY : 37.2% NOX HUMIDITY CORRECTION : .920

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.02 | 88.2 | 491.0 | 2.64 | 13.73 |     |     |      |
| COLD STABILIZED | 4.55 | 82.6 | 525.8 | 1.32 | 13.29 |     |     |      |
| HOT TRANSIENT   | 5.00 | 61.2 | 429.8 | 2.55 | 16.44 |     |     |      |
| 1975 COMPOSITE  | 4.98 | 77.8 | 491.9 | 1.93 | 14.14 |     |     |      |
| IDLE KEYMODE    | 3943 | 4.84 |       | 78   |       | 629 | 340 | 4.30 |
| LOW CR. KEYMODE | 3738 | 1.58 |       | 836  |       | 642 | 265 | 1.55 |
| HI. CR. KEYMODE | 4320 | 2.35 |       | 1979 |       | 730 | 340 | 2.30 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 1.90 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0251 DATE: 09/07/73 BAROMETER: 24.69 WET BULB: 80 DRY BULB: 60  
RELATIVE HUMIDITY : 32.8% NOX HUMIDITY CORRECTION : .936

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.84 | 80.3 | 495.6 | 2.12 | 13.91 |     |     |      |
| COLD STABILIZED | 3.88 | 64.0 | 573.7 | 1.40 | 12.97 |     |     |      |
| HOT TRANSIENT   | 4.82 | 56.4 | 452.2 | 1.92 | 16.01 |     |     |      |
| 1975 COMPOSITE  | 4.55 | 65.3 | 523.7 | 1.69 | 13.90 |     |     |      |
| IDLE KEYMODE    | 4038 | 3.92 |       | 83   |       | 487 | 270 | 3.40 |
| LOW CR. KEYMODE | 3339 | 1.53 |       | 545  |       | 344 | 225 | 1.30 |
| HI. CR. KEYMODE | 4068 | 2.28 |       | 2030 |       | 484 | 300 | 2.30 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 2.00 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 099

1971 CHEV BLAZ 350 4000 LBS COMBINATION RETROFIT  
8 CYL 4 BBL 4 SPEED 19,987 MILES HAS: EMC, NO EVC, NO PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 4.60        | +0020        | +00        | +04        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 2.89        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: CA194 DATE: 08/31/73 BAROMETER: 24.49 WET BULB: 74 DRY BULB: 57  
RELATIVE HUMIDITY : 37.2% NOX HUMIDITY CORRECTION : .920

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.17      | 57.5      | 587.0      | 3.05       | 12.84      |            |            |            |
| COLD STABILIZED | 4.52      | 52.2      | 612.6      | 1.90       | 12.56      |            |            |            |
| HOT TRANSIENT   | 4.47      | 54.4      | 511.6      | 2.87       | 14.57      |            |            |            |
| 1975 COMPOSITE  | 4.64      | 53.9      | 579.2      | 2.41       | 13.13      |            |            |            |
| IDLE KEYMODE    | 4078      | 5.21      |            | 52         |            | 640        | 195        | 4.70       |
| LOW CR. KEYMODE | 1804      | 0.32      |            | 682        |            | 520        | 55         | 0.35       |
| HI. CR. KEYMODE | 2532      | 1.08      |            | 1406       |            | 542        | 115        | 1.05       |
| 2500 RPM        |           |           |            |            |            |            | 40         | 0.43       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0252 DATE: 09/07/73 BAROMETER: 24.60 WET BULB: 76 DRY BULB: 56  
RELATIVE HUMIDITY : 29.8% NOX HUMIDITY CORRECTION : .888

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.20      | 82.2      | 508.2      | 2.30       | 13.49      |            |            |            |
| COLD STABILIZED | 5.23      | 56.1      | 543.5      | 1.51       | 13.74      |            |            |            |
| HOT TRANSIENT   | 4.60      | 55.6      | 456.2      | 2.11       | 15.95      |            |            |            |
| 1975 COMPOSITE  | 5.47      | 61.4      | 511.9      | 1.84       | 14.24      |            |            |            |
| IDLE KEYMODE    | 3030      | 2.89      |            | 57         |            | 255        | 140        | 2.75       |
| LOW CR. KEYMODE | 1644      | 0.17      |            | 703        |            | 194        | 85         | 0.20       |
| HI. CR. KEYMODE | 1786      | 0.76      |            | 1525       |            | 193        | 80         | 0.70       |
| 2500 RPM        |           |           |            |            |            |            | 55         | 0.50       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 100

1969 FORD MUST 302 3000 LBS COMBINATION RETROFIT  
8 CYL 2 BBL AUTOMATIC 47,190 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 6.40        | -0060        | -08        | +03        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 1.70        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0196 DATE: 08/31/73 BAROMETER: 24.52 WET BULB: 70 DRY BULB: 57  
RELATIVE HUMIDITY : 47.5% NOX HUMIDITY CORRECTION : .947

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.56      | 119.1     | 470.0      | 3.38       | 13.01      |            |            |            |
| COLD STABILIZED | 6.01      | 85.2      | 469.9      | 3.27       | 14.30      |            |            |            |
| HOT TRANSIENT   | 5.22      | 53.1      | 427.6      | 4.68       | 16.88      |            |            |            |
| 1975 COMPOSITE  | 6.33      | 83.4      | 458.2      | 3.69       | 14.62      |            |            |            |
| IDLE KEYMODE    | 5419      | 7.16      |            | 53         |            | 856        | 460        | 6.60       |
| LOW CR. KEYMODE | 4380      | 0.70      |            | 2146       |            | 811        | 400        | 0.70       |
| HI. CR. KEYMODE | 3931      | 0.75      |            | 2420       |            | 694        | 260        | 0.70       |
| 2500 RPM        |           |           |            |            |            |            | 180        | 1.60       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0259 DATE: 09/08/73 BAROMETER: 24.58 WET BULB: 72 DRY BULB: 58  
RELATIVE HUMIDITY : 45.3% NOX HUMIDITY CORRECTION : .952

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.54      | 102.4     | 486.7      | 3.27       | 13.26      |            |            |            |
| COLD STABILIZED | 5.76      | 56.6      | 495.6      | 3.21       | 14.77      |            |            |            |
| HOT TRANSIENT   | 4.75      | 37.0      | 430.5      | 4.24       | 17.68      |            |            |            |
| 1975 COMPOSITE  | 5.85      | 60.7      | 475.7      | 3.51       | 15.11      |            |            |            |
| IDLE KEYMODE    | 6622      | 1.70      |            | 137        |            | 1178       | 900        | 1.70       |
| LOW CR. KEYMODE | 4075      | 0.69      |            | 2365       |            | 541        | 340        | 0.65       |
| HI. CR. KEYMODE | 3386      | 0.73      |            | 2571       |            | 387        | 230        | 0.70       |
| 2500 RPM        |           |           |            |            |            |            | 210        | 1.60       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 101

1969 CHEV STAW 327 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 68,576 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.11        | -0110        | -08        | +01        | OK         | BAD         | OK           | NA           | YES          | NA          |
| AFTER MTCE | 3.24        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0177 DATE: 08/30/73 BAROMETER: 24.67 WET BULB: 71 DRY BULB: 56  
RELATIVE HUMIDITY : 41.2% NOX HUMIDITY CORRECTION : .919

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 43.26     | 241.0     | 517.8      | 2.80       | 8.62       |            |            |            |
| COLD STABILIZED | 40.57     | 205.2     | 463.0      | 1.87       | 9.74       |            |            |            |
| HOT TRANSIENT   | 34.07     | 176.4     | 443.6      | 3.34       | 10.75      |            |            |            |
| 1975 COMPOSITE  | 39.33     | 204.7     | 469.1      | 2.47       | 9.73       |            |            |            |
| IDLE KEYMODE    | 22170     | 5.62      |            | 46         |            | ****       | ****       | 5.20       |
| LOW CR. KEYMODE | 21660     | 2.81      |            | 1087       |            | ****       | ****       | 2.70       |
| HI. CR. KEYMODE | 27127     | 5.71      |            | 442        |            | ****       | ****       | 5.50       |
| 2500 RPM        |           |           |            |            |            |            | ****       | 3.10       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0241 DATE: 09/06/73 BAROMETER: 24.70 WET BULB: 78 DRY BULB: 56  
RELATIVE HUMIDITY : 26.0% NOX HUMIDITY CORRECTION : .875

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.58      | 116.1     | 522.8      | 4.20       | 12.16      |            |            |            |
| COLD STABILIZED | 5.38      | 60.7      | 531.5      | 3.48       | 13.83      |            |            |            |
| HOT TRANSIENT   | 5.38      | 76.0      | 475.8      | 4.64       | 14.54      |            |            |            |
| 1975 COMPOSITE  | 6.05      | 76.6      | 514.2      | 3.95       | 13.63      |            |            |            |
| IDLE KEYMODE    | 4187      | 3.24      |            | 99         |            | 499        | 390        | 3.20       |
| LOW CR. KEYMODE | 3630      | 0.99      |            | 2496       |            | 417        | 295        | 1.05       |
| HI. CR. KEYMODE | 3453      | 1.39      |            | 2809       |            | 341        | 215        | 1.55       |
| 2500 RPM        |           |           |            |            |            |            | 200        | 1.25       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 103

1973 FORD MAVE 302 3000 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 9,029 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 2.20 | +0060 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |
| AFTER MTCE | 2.74 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0208 DATE: 09/04/73 BAROMETER: 24.86 WET BULB: 78 DRY BULB: 55  
RELATIVE HUMIDITY : 23.2% NOX HUMIDITY CORRECTION : .857

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.59 | 104.0 | 571.7 | 1.45 | 11.83 |     |     |      |
| COLD STABILIZED | 4.29 | 83.2  | 567.7 | 1.26 | 12.51 |     |     |      |
| HOT TRANSIENT   | 3.65 | 61.2  | 498.8 | 1.50 | 14.68 |     |     |      |
| 1975 COMPOSITE  | 4.39 | 81.5  | 549.5 | 1.37 | 12.88 |     |     |      |
| IDLE KEYMODE    | 5465 | 2.39  |       | 85   |       | 694 | 300 | 2.60 |
| LOW CR. KEYMODE | 4820 | 1.44  |       | 670  |       | 659 | 235 | 1.50 |
| HI. CR. KEYMODE | 4494 | 1.20  |       | 921  |       | 676 | 210 | 1.15 |
| 2500 RPM        |      |       |       |      |       |     | 105 | 2.20 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0333 DATE: 09/14/73 BAROMETER: 24.62 WET BULB: 83 DRY BULB: 53  
RELATIVE HUMIDITY : 11.6% NOX HUMIDITY CORRECTION : .805

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.12 | 60.7 | 544.2 | 1.18 | 13.65 |     |     |      |
| COLD STABILIZED | 3.80 | 78.5 | 526.4 | 0.76 | 13.46 |     |     |      |
| HOT TRANSIENT   | 3.28 | 54.3 | 460.0 | 1.04 | 16.02 |     |     |      |
| 1975 COMPOSITE  | 3.72 | 68.1 | 511.7 | 0.93 | 14.13 |     |     |      |
| IDLE KEYMODE    | 3055 | 2.74 |       | 85   |       | 500 | 270 | 2.30 |
| LOW CR. KEYMODE | 3124 | 2.23 |       | 484  |       | 513 | 235 | 2.20 |
| HI. CR. KEYMODE | 3107 | 1.69 |       | 811  |       | 501 | 210 | 1.65 |
| 2500 RPM        |      |      |       |      |       |     | 115 | 2.60 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 104

1968 PLYM BELV 273 3500 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 58,630 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 9.90        | +0001        | +02        | +02        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 4.24        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0204 DATE: 09/04/73 BAROMETER: 24.77 WET BULB: 71 DRY BULB: 55  
RELATIVE HUMIDITY : 37.8% NOX HUMIDITY CORRECTION : .900

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.59     | 203.0     | 412.3      | 1.16       | 11.64      |            |            |            |
| COLD STABILIZED | 8.81      | 186.7     | 420.3      | 1.35       | 12.01      |            |            |            |
| HOT TRANSIENT   | 6.55      | 145.8     | 369.6      | 1.86       | 14.38      |            |            |            |
| 1975 COMPOSITE  | 8.55      | 178.8     | 404.5      | 1.45       | 12.50      |            |            |            |
| IDLE KEYMODE    | 12025     | 10.42     |            | 24         |            | 696        | 620        | *****      |
| LOW CR. KEYMODE | 3941      | 2.82      |            | 991        |            | 469        | 315        | 2.90       |
| HI. CR. KEYMODE | 4727      | 8.01      |            | 251        |            | 553        | 360        | 8.10       |
| 2500 RPM        |           |           |            |            |            |            | 215        | 4.60       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0270 DATE: 09/10/73 BAROMETER: 24.82 WET BULB: 71 DRY BULB: 62  
RELATIVE HUMIDITY : 62.4% NOX HUMIDITY CORRECTION : 1.050

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.99     | 212.0     | 420.5      | 0.95       | 11.30      |            |            |            |
| COLD STABILIZED | 5.26      | 108.4     | 422.2      | 1.53       | 14.62      |            |            |            |
| HOT TRANSIENT   | 4.80      | 130.1     | 382.3      | 1.78       | 14.80      |            |            |            |
| 1975 COMPOSITE  | 6.33      | 136.1     | 410.8      | 1.48       | 13.82      |            |            |            |
| IDLE KEYMODE    | 4066      | 4.24      |            | 86         |            | 801        | 290        | 4.30       |
| LOW CR. KEYMODE | 3937      | 3.60      |            | 1006       |            | 745        | 280        | 3.40       |
| HI. CR. KEYMODE | 4699      | 8.37      |            | 272        |            | 755        | 310        | 8.40       |
| 2500 RPM        |           |           |            |            |            |            | 190        | 4.40       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
1990G E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 106

1964 FORD GALA 289 4500 LBS TUNE UP EVALUATION  
8 CYL 2 BBL 3 SPEED 30,087 MILES HAS: NO EMC, NO EVC, NO PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 8.30 | +0040 | +00 | +02 | NA  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 7.50 | +0000 | +00 | +00 | NA  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0207 DATE: 09/04/73 BAROMETER: 24.86 WET BULB: 69 DRY BULB: 52  
RELATIVE HUMIDITY : 32.8% NOX HUMIDITY CORRECTION : .864

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 14.68 | 157.1 | 414.4 | 1.91 | 12.58 |     |     |      |
| COLD STABILIZED | 13.30 | 171.6 | 400.8 | 1.34 | 12.50 |     |     |      |
| HOT TRANSIENT   | 10.25 | 113.2 | 367.9 | 2.00 | 15.40 |     |     |      |
| 1975 COMPOSITE  | 12.74 | 152.4 | 394.5 | 1.64 | 13.21 |     |     |      |
| IDLE KEYMODE    | 12290 | 8.88  |       | 36   |       | 680 | 605 | 8.80 |
| LOW CR. KEYMODE | 4005  | 3.22  |       | 797  |       | 409 | 255 | 3.10 |
| HI. CR. KEYMODE | 7435  | 6.13  |       | 531  |       | 690 | 560 | 6.00 |
| 2500 RPM        |       |       |       |      |       |     | 420 | 4.90 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0335 DATE: 09/14/73 BAROMETER: 24.63 WET BULB: 78 DRY BULB: 55  
RELATIVE HUMIDITY : 23.4% NOX HUMIDITY CORRECTION : .860

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 12.55 | 138.0 | 383.7 | 1.50 | 13.91 |     |     |      |
| COLD STABILIZED | 10.29 | 147.2 | 388.7 | 1.01 | 13.65 |     |     |      |
| HOT TRANSIENT   | 7.50  | 103.5 | 369.8 | 1.54 | 16.01 |     |     |      |
| 1975 COMPOSITE  | 9.99  | 133.1 | 382.4 | 1.26 | 14.29 |     |     |      |
| IDLE KEYMODE    | 7459  | 7.50  |       | 38   |       | 700 | 360 | 6.80 |
| LOW CR. KEYMODE | 3535  | 3.05  |       | 539  |       | 511 | 175 | 3.00 |
| HI. CR. KEYMODE | 3785  | 4.83  |       | 1029 |       | 581 | 230 | 4.20 |
| 2500 RPM        |       |       |       |      |       |     | 180 | 4.70 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 111

1972 FORD TORI 302 4000 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 17,170 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 1.00 | +0120 | -02 | -10 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 9.06 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0232 DATE: 09/06/73 BAROMETER: 24.87 WET BULB: 70 DRY BULB: 54  
RELATIVE HUMIDITY : 37.0% NOX HUMIDITY CORRECTION : .888

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.12 | 128.3 | 558.6 | 3.30 | 11.38 |     |     |      |
| COLD STABILIZED | 4.16 | 55.6  | 662.9 | 2.62 | 11.67 |     |     |      |
| HOT TRANSIENT   | 4.96 | 64.4  | 510.2 | 3.79 | 14.20 |     |     |      |
| 1975 COMPOSITE  | 5.00 | 73.3  | 598.7 | 3.09 | 12.21 |     |     |      |
| IDLE KEYMODE    | 2866 | 1.13  |       | 313  |       | 294 | 205 | 1.10 |
| LOW CR. KEYMODE | 3707 | 1.15  |       | 2258 |       | 414 | 300 | 1.25 |
| HI. CR. KEYMODE | 3675 | 2.05  |       | 2469 |       | 398 | 280 | 2.10 |
| 2500 RPM        |      |       |       |      |       |     | 90  | 1.25 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0365 DATE: 09/18/73 BAROMETER: 24.73 WET BULB: 81 DRY BULB: 55  
RELATIVE HUMIDITY : 18.6% NOX HUMIDITY CORRECTION : .842

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.85 | 248.1 | 462.5 | 1.16 | 10.04 |     |     |      |
| COLD STABILIZED | 4.24  | 94.6  | 554.7 | 1.89 | 12.42 |     |     |      |
| HOT TRANSIENT   | 4.77  | 85.3  | 467.6 | 2.95 | 14.44 |     |     |      |
| 1975 COMPOSITE  | 5.77  | 124.2 | 511.2 | 2.03 | 12.29 |     |     |      |
| IDLE KEYMODE    | 5174  | 9.06  |       | 47   |       | 542 | 415 | 9.10 |
| LOW CR. KEYMODE | 2866  | 1.82  |       | 947  |       | 395 | 255 | 1.85 |
| HI. CR. KEYMODE | 2993  | 2.30  |       | 2059 |       | 436 | 265 | 2.25 |
| 2500 RPM        |       |       |       |      |       |     | 140 | 2.35 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 112

1970 FORD MUST 351 3500 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 51,330 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 9.90        | +0000        | -10        | -04        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 4.00        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0233 DATE: 09/06/73 BAROMETER: 24.87 WET BULB: 70 DRY BULB: 56  
RELATIVE HUMIDITY : 43.7% NOX HUMIDITY CORRECTION : .923

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.21      | 66.2      | 543.6      | 6.68       | 13.28      |            |            |            |
| COLD STABILIZED | 7.19      | 93.0      | 447.5      | 3.48       | 14.45      |            |            |            |
| HOT TRANSIENT   | 5.05      | 45.4      | 410.5      | 5.95       | 17.89      |            |            |            |
| 1975 COMPOSITE  | 6.60      | 74.2      | 457.3      | 4.84       | 14.98      |            |            |            |
| IDLE KEYMODE    | 11204     | 10.21     |            | 29         |            | 710        | 600        | *****      |
| LOW CR. KEYMODE | 2951      | 0.50      |            | 2666       |            | 338        | 230        | 0.60       |
| HI. CR. KEYMODE | 2853      | 0.87      |            | 3835       |            | 311        | 205        | 0.90       |
| 2500 RPM        |           |           |            |            |            |            | 650        | 0.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0352 DATE: 09/17/73 BAROMETER: 24.87 WET BULB: 71 DRY BULB: 55  
RELATIVE HUMIDITY : 37.8% NOX HUMIDITY CORRECTION : .899

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.38      | 83.1      | 593.7      | 3.38       | 12.01      |            |            |            |
| COLD STABILIZED | 2.96      | 50.9      | 581.8      | 2.35       | 13.27      |            |            |            |
| HOT TRANSIENT   | 3.40      | 38.3      | 514.6      | 4.20       | 15.21      |            |            |            |
| 1975 COMPOSITE  | 3.59      | 54.1      | 565.6      | 3.08       | 13.45      |            |            |            |
| IDLE KEYMODE    | 3532      | 4.00      |            | 64         |            | 448        | 180        | 3.90       |
| LOW CR. KEYMODE | 2459      | 1.00      |            | 1532       |            | 464        | 155        | 0.95       |
| HI. CR. KEYMODE | 2386      | 1.09      |            | 2160       |            | 441        | 145        | 1.10       |
| 2500 RPM        |           |           |            |            |            |            | 120        | 0.90       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

FILE NUMBER: 113

1969 CHEV STAW 350 4000 LBS TUNE UP EVALUATION  
CYL 4 BBL AUTOMATIC 75,334 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO  | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|-------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 10.50 | +0190 | +00 | -01 | OK  | BAD  | OK    | OK    | NO    | NA   |
| AFTER MTCE | 3.65  | +0000 | +00 | +00 | OK  | OK   | OK    | OK    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0234 DATE: 09/06/73 BAROMETER: 24.89 WET BULB: 70 DRY BULB: 54  
RELATIVE HUMIDITY : 37.0% NOX HUMIDITY CORRECTION : .888

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 7.90  | 114.6 | 516.6 | 4.90 | 12.34 |     |     |       |
| COLD STABILIZED | 7.85  | 121.3 | 484.8 | 3.37 | 12.72 |     |     |       |
| HOT TRANSIENT   | 6.17  | 68.6  | 446.9 | 5.93 | 15.51 |     |     |       |
| 1975 COMPOSITE  | 7.39  | 105.3 | 481.0 | 4.40 | 13.30 |     |     |       |
| IDLE KEYMODE    | 11627 | 11.09 |       | 21   |       | 716 | 590 | ***** |
| LOW CR. KEYMODE | 3857  | 1.64  |       | 1935 |       | 447 | 315 | 1.80  |
| HI. CR. KEYMODE | 3033  | 0.31  |       | 3931 |       | 291 | 180 | 0.38  |
| 2500 RPM        |       |       |       |      |       |     | 725 | 2.70  |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0380 DATE: 09/19/73 BAROMETER: 24.68 WET BULB: 83 DRY BULB: 56  
RELATIVE HUMIDITY : 18.0% NOX HUMIDITY CORRECTION : .847

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.06 | 97.2 | 558.0 | 3.95 | 12.25 |     |     |      |
| COLD STABILIZED | 4.10 | 68.3 | 551.1 | 2.66 | 13.26 |     |     |      |
| HOT TRANSIENT   | 4.13 | 49.1 | 491.1 | 4.40 | 15.32 |     |     |      |
| 1975 COMPOSITE  | 4.31 | 69.0 | 535.9 | 3.41 | 13.54 |     |     |      |
| IDLE KEYMODE    | 3426 | 3.65 |       | 85   |       | 415 | 320 | 4.10 |
| LOW CR. KEYMODE | 3081 | 1.52 |       | 1516 |       | 404 | 265 | 1.55 |
| HI. CR. KEYMODE | 2545 | 0.53 |       | 2642 |       | 333 | 170 | 0.60 |
| 2500 RPM        |      |      |       |      |       |     | 165 | 2.40 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 115

1967 CHEV IMPA 283 4000 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 64,860 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 3.45 | +0020 | +00 | +06 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 7.00 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0236 DATE: 09/06/73 BAROMETER: 24.89 WET BULB: 76 DRY BULB: 57  
RELATIVE HUMIDITY : 32.5% NOX HUMIDITY CORRECTION : .902

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 13.28 | 176.1 | 452.8 | 2.32 | 11.54 |      |      |      |
| COLD STABILIZED | 13.48 | 178.3 | 438.1 | 1.21 | 11.70 |      |      |      |
| HOT TRANSIENT   | 11.24 | 154.2 | 416.8 | 2.37 | 12.82 |      |      |      |
| 1975 COMPOSITE  | 12.82 | 171.2 | 435.2 | 1.77 | 11.96 |      |      |      |
| IDLE KEYMODE    | 8665  | 3.75  |       | 224  |       | 1488 | 1090 | 3.60 |
| LOW CR. KEYMODE | 6758  | 3.50  |       | 1268 |       | 1095 | 790  | 3.30 |
| HI. CR. KEYMODE | 8687  | 9.60  |       | 245  |       | 1161 | 800  | 9.20 |
| 2500 RPM        |       |       |       |      |       |      | 180  | 5.00 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0381 DATE: 09/19/73 BAROMETER: 24.68 WET BULB: 81 DRY BULB: 55  
RELATIVE HUMIDITY : 18.6% NOX HUMIDITY CORRECTION : .843

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 17.44 | 213.4 | 425.0 | 1.58 | 10.92 |      |      |      |
| COLD STABILIZED | 12.68 | 190.9 | 387.7 | 0.80 | 12.24 |      |      |      |
| HOT TRANSIENT   | 10.79 | 161.8 | 392.4 | 1.64 | 13.08 |      |      |      |
| 1975 COMPOSITE  | 13.15 | 187.5 | 396.8 | 1.19 | 12.15 |      |      |      |
| IDLE KEYMODE    | 7437  | 7.00  |       | 80   |       | 1164 | 1160 | 7.20 |
| LOW CR. KEYMODE | 5826  | 4.30  |       | 746  |       | 906  | 880  | 4.40 |
| HI. CR. KEYMODE | 6913  | 8.52  |       | 231  |       | 1052 | 940  | 9.10 |
| 2500 RPM        |       |       |       |      |       |      | 740  | 6.70 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 117

1970 OLDS CUTL 350 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 53,727 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.20        | +0000        | -04        | +14        | BAD        | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 0.24        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0247 DATE: 09/07/73 BAROMETER: 24.74 WET BULB: 71 DRY BULB: 55  
RELATIVE HUMIDITY : 37.9% NOX HUMIDITY CORRECTION : .900

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.44      | 145.2     | 541.2      | 2.73       | 11.23      |            |            |            |
| COLD STABILIZED | 5.23      | 123.1     | 518.3      | 1.57       | 12.23      |            |            |            |
| HOT TRANSIENT   | 4.55      | 103.5     | 458.3      | 2.37       | 14.02      |            |            |            |
| 1975 COMPOSITE  | 5.51      | 122.3     | 506.5      | 2.04       | 12.44      |            |            |            |
| IDLE KEYMODE    | 3876      | 5.56      |            | 71         |            | 459        | 270        | 5.00       |
| LOW CR. KEYMODE | 3898      | 3.22      |            | 846        |            | 457        | 260        | 3.10       |
| HI. CR. KEYMODE | 3623      | 3.91      |            | 1168       |            | 385        | 205        | 3.70       |
| 2500 RPM        |           |           |            |            |            |            | 115        | 4.10       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0277 DATE: 09/10/73 BAROMETER: 24.88 WET BULB: 80 DRY BULB: 66  
RELATIVE HUMIDITY : 49.9% NOX HUMIDITY CORRECTION : 1.086

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.14      | 139.2     | 577.8      | 2.33       | 10.83      |            |            |            |
| COLD STABILIZED | 5.09      | 69.7      | 595.1      | 1.74       | 12.35      |            |            |            |
| HOT TRANSIENT   | 8.18      | 94.7      | 507.5      | 2.53       | 13.05      |            |            |            |
| 1975 COMPOSITE  | 6.59      | 91.2      | 567.2      | 2.08       | 12.18      |            |            |            |
| IDLE KEYMODE    | 3094      | 0.24      |            | 92         |            | 555        | 175        | 0.25       |
| LOW CR. KEYMODE | 3891      | 2.89      |            | 650        |            | 725        | 265        | 3.10       |
| HI. CR. KEYMODE | 3681      | 3.33      |            | 1120       |            | 727        | 215        | 3.30       |
| 2500 RPM        |           |           |            |            |            |            | 140        | 3.20       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 123

1964 CHEV IMP 283 4000 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 85,172 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 7.40        | +0100        | -01        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 9.50        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0250 DATE: 09/07/73 BAROMETER: 24.72 WET BULB: 76 DRY BULB: 60  
RELATIVE HUMIDITY : 41.5% NOX HUMIDITY CORRECTION : .964

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 11.45     | 187.6     | 403.3      | 1.63       | 12.13      |            |            |            |
| COLD STABILIZED | 8.91      | 154.0     | 388.6      | 1.04       | 13.52      |            |            |            |
| HOT TRANSIENT   | 8.07      | 152.8     | 346.1      | 1.44       | 14.56      |            |            |            |
| 1975 COMPOSITE  | 9.21      | 160.7     | 379.9      | 1.27       | 13.47      |            |            |            |
| IDLE KEYMODE    | 8637      | 8.36      |            | 44         |            | 922        | 615        | 7.80       |
| LOW CR. KEYMODE | 5442      | 6.48      |            | 469        |            | 710        | 450        | 6.00       |
| HI. CR. KEYMODE | 4994      | 5.89      |            | 924        |            | 586        | 360        | 5.40       |
| 2500 RPM        |           |           |            |            |            |            | 550        | 5.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0361 DATE: 09/18/73 BAROMETER: 24.78 WET BULB: 77 DRY BULB: 53  
RELATIVE HUMIDITY : 19.8% NOX HUMIDITY CORRECTION : .834

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.48     | 210.8     | 435.6      | 1.20       | 11.13      |            |            |            |
| COLD STABILIZED | 8.48      | 200.9     | 412.5      | 0.66       | 11.80      |            |            |            |
| HOT TRANSIENT   | 7.91      | 182.5     | 373.0      | 1.04       | 13.00      |            |            |            |
| 1975 COMPOSITE  | 8.74      | 197.8     | 406.4      | 0.88       | 11.96      |            |            |            |
| IDLE KEYMODE    | 8043      | 9.50      |            | 31         |            | 879        | 580        | 8.70       |
| LOW CR. KEYMODE | 4426      | 6.54      |            | 329        |            | 614        | 410        | 6.60       |
| HI. CR. KEYMODE | 4071      | 5.86      |            | 669        |            | 571        | 350        | 5.70       |
| 2500 RPM        |           |           |            |            |            |            | 420        | 5.60       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 125

1971 PONT CATA 400 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 29,602 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 1.30 | +0040 | +04 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 1.51 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0281 DATE: 09/11/73 BAROMETER: 24.79 WET BULB: 71 DRY BULB: 62  
RELATIVE HUMIDITY : 62.4% NOX HUMIDITY CORRECTION : 1.051

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.03 | 101.0 | 714.3 | 5.82 | 9.98  |     |     |      |
| COLD STABILIZED | 4.78 | 51.5  | 689.1 | 4.34 | 11.34 |     |     |      |
| HOT TRANSIENT   | 4.77 | 46.0  | 597.7 | 7.34 | 13.00 |     |     |      |
| 1975 COMPOSITE  | 5.04 | 60.3  | 669.0 | 5.48 | 11.42 |     |     |      |
| IDLE KEYMODE    | 2836 | 1.51  |       | 152  |       | 313 | 190 | 1.50 |
| LOW CR. KEYMODE | 2771 | 0.67  |       | 2093 |       | 305 | 170 | 0.70 |
| HI. CR. KEYMODE | 2440 | 0.81  |       | 2749 |       | 259 | 125 | 0.85 |
| 2500 RPM        |      |       |       |      |       |     | 280 | 1.60 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0281 DATE: 09/11/73 BAROMETER: 24.79 WET BULB: 71 DRY BULB: 62  
RELATIVE HUMIDITY : 62.4% NOX HUMIDITY CORRECTION : 1.051

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.03 | 101.0 | 714.3 | 5.82 | 9.98  |     |     |      |
| COLD STABILIZED | 4.78 | 51.5  | 689.1 | 4.34 | 11.34 |     |     |      |
| HOT TRANSIENT   | 4.77 | 46.0  | 597.7 | 7.34 | 13.00 |     |     |      |
| 1975 COMPOSITE  | 5.04 | 60.3  | 669.0 | 5.48 | 11.42 |     |     |      |
| IDLE KEYMODE    | 2836 | 1.51  |       | 152  |       | 313 | 190 | 1.50 |
| LOW CR. KEYMODE | 2771 | 0.67  |       | 2093 |       | 305 | 170 | 0.70 |
| HI. CR. KEYMODE | 2440 | 0.81  |       | 2749 |       | 259 | 125 | 0.85 |
| 2500 RPM        |      |       |       |      |       |     | 280 | 1.60 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 133

1970 FORD TORI 351 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 45,898 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 0.60        | -0100        | +06        | -04        | BAD        | OK          | OK           | NA           | YES          | NA          |
| AFTER MTCE | 6.19        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0310 DATE: 09/13/73 BAROMETER: 24.66 WET BULB: 69 DRY BULB: 59  
RELATIVE HUMIDITY : 57.7% NOX HUMIDITY CORRECTION : .995

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.12      | 74.3      | 508.3      | 6.51       | 13.75      |            |            |            |
| COLD STABILIZED | 7.23      | 23.4      | 492.7      | 5.22       | 16.12      |            |            |            |
| HOT TRANSIENT   | 7.01      | 27.3      | 451.1      | 8.14       | 17.25      |            |            |            |
| 1975 COMPOSITE  | 7.15      | 35.1      | 484.4      | 6.30       | 15.84      |            |            |            |
| IDLE KEYMODE    | 10686     | 0.79      |            | 166        |            | 974        | 1150       | 0.80       |
| LOW CR. KEYMODE | 6964      | 0.14      |            | 2700       |            | 1360       | 750        | 0.20       |
| HI. CR. KEYMODE | 2939      | 0.74      |            | 4230       |            | 578        | 170        | 0.70       |
| 2500 RPM        |           |           |            |            |            |            | ****       | 0.60       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0382 DATE: 09/19/73 BAROMETER: 24.68 WET BULB: 78 DRY BULB: 54  
RELATIVE HUMIDITY : 20.8% NOX HUMIDITY CORRECTION : .844

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.78      | 97.8      | 546.6      | 2.09       | 12.28      |            |            |            |
| COLD STABILIZED | 4.09      | 75.3      | 530.4      | 1.55       | 13.46      |            |            |            |
| HOT TRANSIENT   | 3.94      | 51.5      | 486.3      | 2.15       | 15.36      |            |            |            |
| 1975 COMPOSITE  | 4.82      | 73.4      | 521.6      | 1.83       | 13.66      |            |            |            |
| IDLE KEYMODE    | 4368      | 6.19      |            | 81         |            | 412        | 290        | 5.20       |
| LOW CR. KEYMODE | 2069      | 0.60      |            | 772        |            | 233        | 140        | 0.65       |
| HI. CR. KEYMODE | 2268      | 1.12      |            | 1447       |            | 234        | 145        | 1.20       |
| 2500 RPM        |           |           |            |            |            |            | 80         | 1.25       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 139

1970 FORD TORI 250 3500 LBS COMBINATION RETROFIT  
6 CYL 1 BBL 3 SPEED 31,895 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 1.90        | -0210        | -12        | +00        | OK         | BAD         | OK           | NA           | YES          | NA          |
| AFTER MTCE | 6.41        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0326 DATE: 09/14/73 BAROMETER: 24.80 WET BULB: 71 DRY BULB: 59  
RELATIVE HUMIDITY : 51.4% NOX HUMIDITY CORRECTION : .977

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.43      | 88.6      | 389.9      | 2.72       | 16.11      |            |            |            |
| COLD STABILIZED | 3.65      | 59.5      | 426.8      | 2.35       | 16.75      |            |            |            |
| HOT TRANSIENT   | 4.34      | 74.7      | 347.0      | 2.46       | 18.63      |            |            |            |
| 1975 COMPOSITE  | 4.63      | 69.8      | 397.0      | 2.46       | 17.09      |            |            |            |
| IDLE KEYMODE    | 2543      | 2.07      |            | 73         |            | 225        | 70         | 2.20       |
| LOW CR. KEYMODE | 3413      | 2.45      |            | 1382       |            | 569        | 195        | 2.40       |
| HI. CR. KEYMODE | 2983      | 2.63      |            | 1637       |            | 519        | 130        | 2.45       |
| 2500 RPM        |           |           |            |            |            |            | 130        | 3.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0375 DATE: 09/19/73 BAROMETER: 24.69 WET BULB: 80 DRY BULB: 54  
RELATIVE HUMIDITY : 17.7% NOX HUMIDITY CORRECTION : .833

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.94      | 111.6     | 373.6      | 2.17       | 15.69      |            |            |            |
| COLD STABILIZED | 4.20      | 96.6      | 410.9      | 1.57       | 15.46      |            |            |            |
| HOT TRANSIENT   | 4.50      | 88.3      | 343.2      | 2.10       | 17.95      |            |            |            |
| 1975 COMPOSITE  | 4.65      | 97.4      | 384.3      | 1.84       | 16.13      |            |            |            |
| IDLE KEYMODE    | 3984      | 6.41      |            | 79         |            | 268        | 190        | 6.10       |
| LOW CR. KEYMODE | 3776      | 3.84      |            | 1021       |            | 385        | 290        | 3.90       |
| HI. CR. KEYMODE | 3444      | 2.49      |            | 1896       |            | 385        | 260        | 2.50       |
| 2500 RPM        |           |           |            |            |            |            | 235        | 4.40       |

MANDATORY MAINTENANCE COST: LABOR= 19.20 PARTS= 18.55 TOTAL= 37.75

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 140

1966 OLDS DYNA 425 4500 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 48,553 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 0.75 | -0060 | +02 | +01 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 8.14 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0327 DATE: 09/14/73 BAROMETER: 24.80 WET BULB: 70 DRY BULB: 59  
RELATIVE HUMIDITY : 54.5% NOX HUMIDITY CORRECTION : .985

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.11 | 208.5 | 654.3 | 1.88 | 8.81  |     |     |      |
| COLD STABILIZED | 4.73 | 99.4  | 670.9 | 1.44 | 10.58 |     |     |      |
| HOT TRANSIENT   | 5.15 | 113.3 | 557.0 | 1.88 | 11.85 |     |     |      |
| 1975 COMPOSITE  | 5.76 | 126.1 | 635.8 | 1.66 | 10.45 |     |     |      |
| IDLE KEYMODE    | 2965 | 0.86  |       | 116  |       | 450 | 130 | 0.70 |
| LOW CR. KEYMODE | 3115 | 1.96  |       | 634  |       | 464 | 140 | 0.80 |
| HI. CR. KEYMODE | 3511 | 4.25  |       | 767  |       | 496 | 170 | 4.30 |
| 2500 RPM        |      |       |       |      |       |     | 105 | 3.10 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0374 DATE: 09/19/73 BAROMETER: 24.68 WET BULB: 79 DRY BULB: 56  
RELATIVE HUMIDITY : 24.2% NOX HUMIDITY CORRECTION : .869

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.20 | 207.6 | 549.3 | 2.50 | 9.78  |     |     |      |
| COLD STABILIZED | 9.76  | 151.3 | 501.0 | 1.83 | 11.57 |     |     |      |
| HOT TRANSIENT   | 7.52  | 141.6 | 445.2 | 2.41 | 12.88 |     |     |      |
| 1975 COMPOSITE  | 9.44  | 160.4 | 495.7 | 2.13 | 11.46 |     |     |      |
| IDLE KEYMODE    | 8110  | 8.14  |       | 30   |       | 890 | 810 | 7.40 |
| LOW CR. KEYMODE | 4078  | 3.23  |       | 1218 |       | 556 | 405 | 3.30 |
| HI. CR. KEYMODE | 4228  | 6.47  |       | 672  |       | 541 | 370 | 6.60 |
| 2500 RPM        |       |       |       |      |       |     | 900 | 5.20 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 142

1972 CHEV NOVA 350 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 25,592 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 1.30        | +0000        | +10        | -04        | BAD        | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 3.19        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0346 DATE: 09/17/73 BAROMETER: 24.92 WET BULB: 72 DRY BULB: 56  
RELATIVE HUMIDITY : 38.5% NOX HUMIDITY CORRECTION : .909

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.73      | 124.9     | 578.1      | 4.21       | 11.19      |            |            |            |
| COLD STABILIZED | 3.80      | 36.4      | 594.4      | 2.88       | 13.42      |            |            |            |
| HOT TRANSIENT   | 3.20      | 37.7      | 497.7      | 4.60       | 15.70      |            |            |            |
| 1975 COMPOSITE  | 4.25      | 55.3      | 564.2      | 3.63       | 13.40      |            |            |            |
| IDLE KEYMODE    | 2853      | 1.20      |            | 361        |            | 530        | 220        | 1.50       |
| LOW CR. KEYMODE | 3028      | 1.24      |            | 1788       |            | 603        | 220        | 1.30       |
| HI. CR. KEYMODE | 2367      | 0.23      |            | 2956       |            | 490        | 130        | 0.25       |
| 2500 RPM        |           |           |            |            |            |            | 135        | 1.60       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0378 DATE: 09/19/73 BAROMETER: 24.68 WET BULB: 82 DRY BULB: 55  
RELATIVE HUMIDITY : 17.2% NOX HUMIDITY CORRECTION : .837

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 3.41      | 68.6      | 628.0      | 2.87       | 11.93      |            |            |            |
| COLD STABILIZED | 3.33      | 54.5      | 637.5      | 1.75       | 12.14      |            |            |            |
| HOT TRANSIENT   | 3.19      | 58.2      | 509.8      | 2.34       | 14.57      |            |            |            |
| 1975 COMPOSITE  | 3.31      | 58.4      | 600.1      | 2.14       | 12.68      |            |            |            |
| IDLE KEYMODE    | 2900      | 3.19      |            | 194        |            | 269        | 225        | 3.50       |
| LOW CR. KEYMODE | 2973      | 2.28      |            | 1045       |            | 283        | 220        | 2.20       |
| HI. CR. KEYMODE | 1755      | 0.45      |            | 1647       |            | 190        | 90         | 0.50       |
| 2500 RPM        |           |           |            |            |            |            | 130        | 3.00       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
1990C E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 143

1966 FORD MUST 289      3000 LBS      SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC      38,659 MILES      HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.40        | -0135        | -06        | -02        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 2.54        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0340    DATE: 09/17/73    BAROMETER: 24.83    WET BULB: 70    DRY BULB: 58  
RELATIVE HUMIDITY : 50.8%    NOX HUMIDITY CORRECTION : .963

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 11.01     | 110.0     | 459.4      | 3.16       | 13.35      |            |            |            |
| COLD STABILIZED | 8.47      | 89.3      | 416.4      | 3.00       | 15.26      |            |            |            |
| HOT TRANSIENT   | 5.67      | 53.6      | 400.9      | 3.97       | 17.70      |            |            |            |
| 1975 COMPOSITE  | 8.22      | 83.7      | 421.1      | 3.30       | 15.39      |            |            |            |
| IDLE KEYMODE    | 5604      | 3.53      |            | 60         |            | 954        | 580        | 3.70       |
| LOW CR. KEYMODE | 5329      | 1.00      |            | 2211       |            | 953        | 560        | 1.10       |
| HI. CR. KEYMODE | 4664      | 1.44      |            | 1954       |            | 777        | 400        | 1.50       |
| 2500 RPM        |           |           |            |            |            |            | 270        | 6.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0409    DATE: 09/21/73    BAROMETER: 24.65    WET BULB: 73    DRY BULB: 52  
RELATIVE HUMIDITY : 24.4%    NOX HUMIDITY CORRECTION : .843

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.82     | 106.6     | 447.4      | 3.50       | 13.72      |            |            |            |
| COLD STABILIZED | 7.73      | 74.0      | 418.6      | 3.62       | 15.92      |            |            |            |
| HOT TRANSIENT   | 5.82      | 46.1      | 398.7      | 4.20       | 18.19      |            |            |            |
| 1975 COMPOSITE  | 7.85      | 73.1      | 419.1      | 3.76       | 15.94      |            |            |            |
| IDLE KEYMODE    | 4028      | 2.54      |            | 72         |            | 508        | 355        | 2.50       |
| LOW CR. KEYMODE | 4675      | 0.76      |            | 2436       |            | 633        | 420        | 0.70       |
| HI. CR. KEYMODE | 3979      | 1.23      |            | 2158       |            | 471        | 290        | 1.20       |
| 2500 RPM        |           |           |            |            |            |            | 220        | 1.70       |

MANDATORY MAINTENANCE COST: LABOR= 21.60    PARTS= 22.75    TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 144

1972 FORD GALA 400 4000 LBS COMBINATION RETROFIT  
8 CYL 2 BBL AUTOMATIC 12,721 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.30        | +0040        | -08        | +09        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 1.35        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0342 DATE: 09/17/73 BAROMETER: 24.82 WET BULB: 70 DRY BULB: 56  
RELATIVE HUMIDITY : 43.8% NOX HUMIDITY CORRECTION : .924

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.43      | 88.0      | 639.6      | 4.73       | 11.20      |            |            |            |
| COLD STABILIZED | 4.37      | 81.9      | 636.8      | 3.85       | 11.43      |            |            |            |
| HOT TRANSIENT   | 4.00      | 51.0      | 537.2      | 5.25       | 14.14      |            |            |            |
| 1975 COMPOSITE  | 4.49      | 74.6      | 609.8      | 4.42       | 12.02      |            |            |            |
| IDLE KEYMODE    | 3407      | 5.37      |            | 85         |            | 493        | 235        | 5.40       |
| LOW CR. KEYMODE | 3076      | 0.81      |            | 2015       |            | 527        | 220        | 0.80       |
| HI. CR. KEYMODE | 2979      | 0.87      |            | 2564       |            | 485        | 175        | 1.00       |
| 2500 RPM        |           |           |            |            |            |            | 110        | 4.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0393 DATE: 09/20/73 BAROMETER: 24.58 WET BULB: 78 DRY BULB: 56  
RELATIVE HUMIDITY : 26.1% NOX HUMIDITY CORRECTION : .876

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.10      | 43.4      | 641.1      | 4.34       | 12.33      |            |            |            |
| COLD STABILIZED | 3.40      | 33.8      | 680.2      | 3.36       | 11.97      |            |            |            |
| HOT TRANSIENT   | 4.09      | 36.9      | 542.1      | 4.24       | 14.53      |            |            |            |
| 1975 COMPOSITE  | 3.74      | 36.7      | 633.7      | 3.81       | 12.67      |            |            |            |
| IDLE KEYMODE    | 2204      | 1.35      |            | 162        |            | 271        | 160        | 1.30       |
| LOW CR. KEYMODE | 2700      | 0.81      |            | 1708       |            | 321        | 185        | 0.80       |
| HI. CR. KEYMODE | 2382      | 0.88      |            | 2332       |            | 285        | 145        | 0.93       |
| 2500 RPM        |           |           |            |            |            |            | 120        | 1.20       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 145

1973 FORD MAVE 302      3000 LBS      HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC      5,516 MILES      HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 1.08        | +0010        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | OK          |
| AFTER MTCE | 1.10        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | OK          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0343    DATE: 09/17/73    BAROMETER: 24.85    WET BULB: 70    DRY BULB: 56  
RELATIVE HUMIDITY : 43.8%    NOX HUMIDITY CORRECTION : .923

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.82      | 64.2      | 519.8      | 2.03       | 14.00      |            |            |            |
| COLD STABILIZED | 3.56      | 55.8      | 552.6      | 1.82       | 13.67      |            |            |            |
| HOT TRANSIENT   | 3.95      | 42.3      | 470.9      | 2.40       | 16.19      |            |            |            |
| 1975 COMPOSITE  | 3.93      | 53.8      | 523.1      | 2.03       | 14.36      |            |            |            |
| IDLE KEYMODE    | 2945      | 1.10      |            | 123        |            | 545        | 240        | 1.30       |
| LOW CR. KEYMODE | 3077      | 1.10      |            | 1140       |            | 531        | 230        | 1.20       |
| HI. CR. KEYMODE | 3185      | 1.42      |            | 1430       |            | 548        | 245        | 1.50       |
| 2500 RPM        |           |           |            |            |            |            | 115        | 1.70       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0343    DATE: 09/17/73    BAROMETER: 24.85    WET BULB: 70    DRY BULB: 56  
RELATIVE HUMIDITY : 43.8%    NOX HUMIDITY CORRECTION : .923

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.82      | 64.2      | 519.8      | 2.03       | 14.00      |            |            |            |
| COLD STABILIZED | 3.56      | 55.8      | 552.6      | 1.82       | 13.67      |            |            |            |
| HOT TRANSIENT   | 3.95      | 42.3      | 470.9      | 2.40       | 16.19      |            |            |            |
| 1975 COMPOSITE  | 3.93      | 53.8      | 523.1      | 2.03       | 14.36      |            |            |            |
| IDLE KEYMODE    | 2945      | 1.10      |            | 123        |            | 545        | 240        | 1.30       |
| LOW CR. KEYMODE | 3077      | 1.10      |            | 1140       |            | 531        | 230        | 1.20       |
| HI. CR. KEYMODE | 3185      | 1.42      |            | 1430       |            | 548        | 245        | 1.50       |
| 2500 RPM        |           |           |            |            |            |            | 115        | 1.70       |

MANDATORY MAINTENANCE COST: LABOR= 21.60    PARTS= 22.75    TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 146

1969 OLDS DELT 455 4000 LBS COMBINATION RETROFIT  
8 CYL 2 BBL AUTOMATIC 61,594 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 9.15        | -0010        | -06        | +04        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 6.54        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0341 DATE: 09/17/73 BAROMETER: 24.83 WET BULB: 70 DRY BULB: 56  
RELATIVE HUMIDITY : 43.8% NOX HUMIDITY CORRECTION : .923

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 11.56     | 206.4     | 600.7      | 2.73       | 9.26       |            |            |            |
| COLD STABILIZED | 6.76      | 172.4     | 580.6      | 2.13       | 10.20      |            |            |            |
| HOT TRANSIENT   | 5.30      | 126.0     | 513.3      | 2.77       | 12.23      |            |            |            |
| 1975 COMPOSITE  | 7.36      | 166.6     | 566.1      | 2.43       | 10.46      |            |            |            |
| IDLE KEYMODE    | 5378      | 9.57      |            | 44         |            | 560        | 290        | 9.60       |
| LOW CR. KEYMODE | 3719      | 3.01      |            | 992        |            | 573        | 270        | 3.80       |
| HI. CR. KEYMODE | 3130      | 2.54      |            | 1657       |            | 483        | 175        | 2.70       |
| 2500 RPM        |           |           |            |            |            |            | 180        | 4.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0392 DATE: 09/20/73 BAROMETER: 24.68 WET BULB: 78 DRY BULB: 56  
RELATIVE HUMIDITY : 26.0% NOX HUMIDITY CORRECTION : .875

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.53      | 155.2     | 536.1      | 3.08       | 11.08      |            |            |            |
| COLD STABILIZED | 5.33      | 131.1     | 563.7      | 2.46       | 11.32      |            |            |            |
| HOT TRANSIENT   | 4.54      | 99.7      | 485.9      | 3.27       | 13.56      |            |            |            |
| 1975 COMPOSITE  | 5.57      | 127.5     | 536.3      | 2.82       | 11.81      |            |            |            |
| IDLE KEYMODE    | 3926      | 6.54      |            | 64         |            | 361        | 250        | 6.80       |
| LOW CR. KEYMODE | 3134      | 2.78      |            | 1270       |            | 362        | 230        | 2.80       |
| HI. CR. KEYMODE | 2777      | 2.54      |            | 1885       |            | 300        | 175        | 2.65       |
| 2500 RPM        |           |           |            |            |            |            | 210        | 4.30       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 147

1970 CHEV IMPA 350 4000 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 80,466 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 6.07        | +0050        | +00        | +02        | OK         | BAD         | OK           | NA           | YES          | NA          |
| AFTER MTCE | 2.17        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0345 DATE: 09/17/73 BAROMETER: 24.87 WET BULB: 70 DRY BULB: 56  
RELATIVE HUMIDITY : 43.7% NOX HUMIDITY CORRECTION : .923

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 11.61     | 188.0     | 548.0      | 1.97       | 10.12      |            |            |            |
| COLD STABILIZED | 7.88      | 104.8     | 573.9      | 2.26       | 11.66      |            |            |            |
| HOT TRANSIENT   | 6.01      | 82.6      | 455.8      | 2.34       | 14.73      |            |            |            |
| 1975 COMPOSITE  | 8.14      | 116.0     | 535.7      | 2.22       | 11.98      |            |            |            |
| IDLE KEYMODE    | 6254      | 6.82      |            | 153        |            | 863        | 800        | 6.30       |
| LOW CR. KEYMODE | 3340      | 1.36      |            | 1300       |            | 532        | 230        | 1.60       |
| HI. CR. KEYMODE | 3584      | 3.52      |            | 1287       |            | 549        | 250        | 3.50       |
| 2500 RPM        |           |           |            |            |            |            | 115        | 1.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0493 DATE: 10/01/73 BAROMETER: 24.70 WET BULB: 76 DRY BULB: 54  
RELATIVE HUMIDITY : 24.2% NOX HUMIDITY CORRECTION : .855

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 11.93     | 221.2     | 499.8      | 1.21       | 10.06      |            |            |            |
| COLD STABILIZED | 3.77      | 55.5      | 595.9      | 1.85       | 12.81      |            |            |            |
| HOT TRANSIENT   | 3.95      | 68.6      | 478.5      | 1.98       | 14.87      |            |            |            |
| 1975 COMPOSITE  | 5.53      | 93.8      | 543.2      | 1.75       | 12.58      |            |            |            |
| IDLE KEYMODE    | 3557      | 2.17      |            | 146        |            | 539        | 280        | 2.00       |
| LOW CR. KEYMODE | 2272      | 0.24      |            | 822        |            | 446        | 120        | 0.25       |
| HI. CR. KEYMODE | 3101      | 2.49      |            | 1366       |            | 501        | 200        | 2.50       |
| 2500 RPM        |           |           |            |            |            |            | 62         | 0.50       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 148

1972 PLYM SATE 400 3500 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 14,660 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 6.40 | +0090 | +00 | +00 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 3.31 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0357 DATE: 09/18/73 BAROMETER: 24.79 WET BULB: 71 DRY BULB: 53  
RELATIVE HUMIDITY : 31.4% NOX HUMIDITY CORRECTION : .868

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.62 | 184.3 | 530.2 | 1.91 | 10.51 |     |     |      |
| COLD STABILIZED | 5.60 | 142.5 | 538.0 | 1.29 | 11.42 |     |     |      |
| HOT TRANSIENT   | 4.52 | 103.3 | 472.5 | 2.17 | 13.72 |     |     |      |
| 1975 COMPOSITE  | 5.93 | 140.4 | 518.2 | 1.66 | 11.76 |     |     |      |
| IDLE KEYMODE    | 4666 | 7.27  |       | 55   |       | 517 | 380 | 6.50 |
| LOW CR. KEYMODE | 3285 | 2.76  |       | 960  |       | 475 | 270 | 2.80 |
| HI. CR. KEYMODE | 3250 | 3.29  |       | 1533 |       | 462 | 255 | 3.40 |
| 2500 RPM        |      |       |       |      |       |     | 130 | 3.00 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0403 DATE: 09/21/73 BAROMETER: 24.65 WET BULB: 79 DRY BULB: 56  
RELATIVE HUMIDITY : 24.2% NOX HUMIDITY CORRECTION : .870

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.82 | 168.8 | 537.3 | 2.14 | 10.76 |     |     |      |
| COLD STABILIZED | 4.24 | 88.6  | 577.7 | 1.58 | 12.19 |     |     |      |
| HOT TRANSIENT   | 4.75 | 107.6 | 463.8 | 2.25 | 13.74 |     |     |      |
| 1975 COMPOSITE  | 5.13 | 110.6 | 537.7 | 1.88 | 12.24 |     |     |      |
| IDLE KEYMODE    | 3317 | 3.31  |       | 70   |       | 329 | 180 | 3.20 |
| LOW CR. KEYMODE | 3801 | 3.84  |       | 888  |       | 420 | 250 | 3.70 |
| HI. CR. KEYMODE | 5403 | 11.38 |       | 114  |       | 595 | 340 | **** |
| 2500 RPM        |      |       |       |      |       |     | 150 | 3.60 |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 149

1966 FORD GALA 352 4000 LBS TUNE UP EVALUATION  
8 CYL 4 BBL AUTOMATIC 78,274 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 6.60        | +0060        | +10        | -04        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 7.13        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0344 DATE: 09/17/73 BAROMETER: 24.86 WET BULB: 70 DRY BULB: 56  
RELATIVE HUMIDITY : 43.8% NOX HUMIDITY CORRECTION : .923

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.66     | 129.6     | 518.1      | 4.39       | 11.79      |            |            |            |
| COLD STABILIZED | 8.78      | 136.5     | 478.2      | 3.59       | 12.36      |            |            |            |
| HOT TRANSIENT   | 6.57      | 95.2      | 440.1      | 3.72       | 14.59      |            |            |            |
| 1975 COMPOSITE  | 8.56      | 123.6     | 476.0      | 3.80       | 12.78      |            |            |            |
| IDLE KEYMODE    | 5055      | 6.85      |            | 92         |            | 751        | 505        | 7.20       |
| LOW CR. KEYMODE | 3610      | 2.15      |            | 1727       |            | 610        | 410        | 2.60       |
| HI. CR. KEYMODE | 3740      | 2.31      |            | 2330       |            | 630        | 300        | 2.55       |
| 2500 RPM        |           |           |            |            |            |            | 210        | 3.00       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0472 DATE: 09/28/73 BAROMETER: 24.85 WET BULB: 70 DRY BULB: 55  
RELATIVE HUMIDITY : 40.3% NOX HUMIDITY CORRECTION : .905

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 11.20     | 112.2     | 461.4      | 2.96       | 13.23      |            |            |            |
| COLD STABILIZED | 10.10     | 99.3      | 434.3      | 3.28       | 14.31      |            |            |            |
| HOT TRANSIENT   | 6.07      | 62.5      | 406.6      | 3.68       | 16.99      |            |            |            |
| 1975 COMPOSITE  | 9.21      | 91.8      | 432.3      | 3.32       | 14.71      |            |            |            |
| IDLE KEYMODE    | 9679      | 7.13      |            | 70         |            | 1191       | 320        | 4.00       |
| LOW CR. KEYMODE | 4123      | 1.18      |            | 2289       |            | 644        | 275        | 1.10       |
| HI. CR. KEYMODE | 3664      | 0.98      |            | 2813       |            | 550        | 210        | 0.80       |
| 2500 RPM        |           |           |            |            |            |            | 270        | 1.80       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 150

1971 DODG DART 318 3000 LBS COMBINATION RETROFIT  
8 CYL 2 BBL AUTOMATIC 26,700 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 7.50        | +0030        | +05        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 1.67        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0358 DATE: 09/18/73 BAROMETER: 24.80 WET BULB: 72 DRY BULB: 54  
RELATIVE HUMIDITY : 32.3% NOX HUMIDITY CORRECTION : .877

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.02      | 86.1      | 449.5      | 3.46       | 14.75      |            |            |            |
| COLD STABILIZED | 6.68      | 112.9     | 430.4      | 2.29       | 14.16      |            |            |            |
| HOT TRANSIENT   | 4.51      | 61.8      | 401.4      | 3.81       | 17.37      |            |            |            |
| 1975 COMPOSITE  | 5.94      | 93.1      | 426.4      | 2.95       | 15.06      |            |            |            |
| IDLE KEYMODE    | 6092      | 8.54      |            | 49         |            | 667        | 620        | 7.70       |
| LOW CR. KEYMODE | 3801      | 1.19      |            | 1969       |            | 529        | 420        | 1.20       |
| HI. CR. KEYMODE | 3655      | 2.58      |            | 1731       |            | 464        | 350        | 2.70       |
| 2500 RPM        |           |           |            |            |            |            | 250        | 2.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0405 DATE: 09/21/73 BAROMETER: 24.65 WET BULB: 80 DRY BULB: 56  
RELATIVE HUMIDITY : 22.6% NOX HUMIDITY CORRECTION : .864

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.71      | 54.2      | 475.1      | 2.82       | 15.48      |            |            |            |
| COLD STABILIZED | 3.85      | 46.9      | 483.3      | 1.81       | 15.65      |            |            |            |
| HOT TRANSIENT   | 3.68      | 39.5      | 431.4      | 2.95       | 17.63      |            |            |            |
| 1975 COMPOSITE  | 3.98      | 46.4      | 467.2      | 2.34       | 16.12      |            |            |            |
| IDLE KEYMODE    | 3101      | 1.67      |            | 31         |            | 377        | 190        | 1.60       |
| LOW CR. KEYMODE | 3629      | 1.13      |            | 1769       |            | 443        | 250        | 1.40       |
| HI. CR. KEYMODE | 3418      | 2.07      |            | 1943       |            | 395        | 200        | 2.20       |
| 2500 RPM        |           |           |            |            |            |            | 120        | 1.10       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 152

1971 FORD GALA 351 4000 LBS COMBINATION RETROFIT  
8 CYL 2 BBL AUTOMATIC 29,562 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 4.00        | +0000        | +02        | +00        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 1.03        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0369 DATE: 09/19/73 BAROMETER: 24.66 WET BULB: 71 DRY BULB: 56  
RELATIVE HUMIDITY : 41.2% NOX HUMIDITY CORRECTION : .919

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 30.94     | 95.0      | 492.3      | 3.41       | 12.04      |            |            |            |
| COLD STABILIZED | 30.40     | 81.4      | 548.7      | 4.23       | 11.52      |            |            |            |
| HOT TRANSIENT   | 26.44     | 63.2      | 455.4      | 4.92       | 13.95      |            |            |            |
| 1975 COMPOSITE  | 29.42     | 79.2      | 511.0      | 4.25       | 12.22      |            |            |            |
| IDLE KEYMODE    | 10833     | 4.74      |            | 94         |            | ****       | ****       | 4.50       |
| LOW CR. KEYMODE | 10771     | 0.92      |            | 2112       |            | ****       | ****       | 0.90       |
| HI. CR. KEYMODE | 10767     | 2.50      |            | 1788       |            | ****       | ****       | 2.60       |
| 2500 RPM        |           |           |            |            |            |            | ****       | 1.35       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0410 DATE: 09/22/73 BAROMETER: 24.67 WET BULB: 72 DRY BULB: 56  
RELATIVE HUMIDITY : 38.7% NOX HUMIDITY CORRECTION : .912

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.98      | 69.2      | 615.3      | 5.28       | 12.04      |            |            |            |
| COLD STABILIZED | 3.26      | 37.1      | 634.9      | 3.78       | 12.66      |            |            |            |
| HOT TRANSIENT   | 4.60      | 47.3      | 504.5      | 4.81       | 15.01      |            |            |            |
| 1975 COMPOSITE  | 3.99      | 46.7      | 594.6      | 4.38       | 13.09      |            |            |            |
| IDLE KEYMODE    | 2098      | 1.03      |            | 184        |            | 200        | 120        | 1.00       |
| LOW CR. KEYMODE | 3101      | 0.72      |            | 2209       |            | 335        | 210        | 0.70       |
| HI. CR. KEYMODE | 2852      | 1.07      |            | 2862       |            | 303        | 170        | 1.25       |
| 2500 RPM        |           |           |            |            |            |            | 110        | 1.00       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 153

1965 CHEV BELA 283 4000 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 130,460 MILES HAS: NO EMC, NO EVC, NO PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 2.40        | +0000        | +02        | +01        | NA         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 2.56        | +0000        | +00        | +00        | NA         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0370 DATE: 09/19/73 BAROMETER: 24.67 WET BULB: 72 DRY BULB: 56  
RELATIVE HUMIDITY : 38.7% NOX HUMIDITY CORRECTION : .912

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 11.44     | 151.3     | 418.8      | 1.81       | 12.85      |            |            |            |
| COLD STABILIZED | 8.51      | 160.5     | 394.9      | 0.62       | 13.21      |            |            |            |
| HOT TRANSIENT   | 7.77      | 141.5     | 349.8      | 1.18       | 14.92      |            |            |            |
| 1975 COMPOSITE  | 8.92      | 153.3     | 387.4      | 1.02       | 13.57      |            |            |            |
| IDLE KEYMODE    | 5367      | 2.65      |            | 88         |            | 776        | 700        | 2.75       |
| LOW CR. KEYMODE | 5454      | 4.72      |            | 628        |            | 776        | 640        | 4.70       |
| HI. CR. KEYMODE | 5891      | 7.52      |            | 406        |            | 783        | 620        | 8.00       |
| 2500 RPM        |           |           |            |            |            |            | 550        | 5.00       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0425 DATE: 09/24/73 BAROMETER: 24.48 WET BULB: 75 DRY BULB: 51  
RELATIVE HUMIDITY : 18.2% NOX HUMIDITY CORRECTION : .820

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 12.38     | 191.8     | 434.6      | 1.49       | 11.49      |            |            |            |
| COLD STABILIZED | 8.70      | 188.9     | 397.3      | 0.51       | 12.34      |            |            |            |
| HOT TRANSIENT   | 7.56      | 161.0     | 350.3      | 1.03       | 14.20      |            |            |            |
| 1975 COMPOSITE  | 9.15      | 181.8     | 392.1      | 0.86       | 12.61      |            |            |            |
| IDLE KEYMODE    | 4712      | 2.56      |            | 77         |            | 651        | 580        | 2.50       |
| LOW CR. KEYMODE | 4939      | 5.76      |            | 397        |            | 617        | 520        | 5.70       |
| HI. CR. KEYMODE | 6306      | 10.75     |            | 202        |            | 692        | 575        | *****      |
| 2500 RPM        |           |           |            |            |            |            | 550        | 6.60       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 155

1968 CHEV BELA 307 4000 LBS COMBINATION RETROFIT  
8 CYL 2 BBL AUTOMATIC 66,417 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 7.40        | -0135        | +08        | -01        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 1.98        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0384 DATE: 09/20/73 BAROMETER: 24.71 WET BULB: 72 DRY BULB: 58  
RELATIVE HUMIDITY : 45.2% NOX HUMIDITY CORRECTION : .950

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.93      | 75.9      | 503.3      | 7.23       | 13.68      |            |            |            |
| COLD STABILIZED | 9.34      | 62.3      | 475.3      | 5.89       | 14.77      |            |            |            |
| HOT TRANSIENT   | 6.58      | 50.1      | 460.7      | 7.91       | 15.90      |            |            |            |
| 1975 COMPOSITE  | 8.49      | 61.8      | 477.1      | 6.73       | 14.82      |            |            |            |
| IDLE KEYMODE    | 9200      | 8.27      |            | 26         |            | 1264       | 320        | 7.60       |
| LOW CR. KEYMODE | 4098      | 0.63      |            | 3049       |            | 518        | 400        | 0.70       |
| HI. CR. KEYMODE | 3646      | 0.60      |            | 4117       |            | 417        | 275        | 0.65       |
| 2500 RPM        |           |           |            |            |            |            | 370        | 4.50       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0418 DATE: 09/24/73 BAROMETER: 24.57 WET BULB: 71 DRY BULB: 57  
RELATIVE HUMIDITY : 44.7% NOX HUMIDITY CORRECTION : .939

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.12     | 128.8     | 507.2      | 4.25       | 12.01      |            |            |            |
| COLD STABILIZED | 6.56      | 67.1      | 502.8      | 3.54       | 14.16      |            |            |            |
| HOT TRANSIENT   | 5.36      | 64.2      | 467.9      | 4.96       | 15.20      |            |            |            |
| 1975 COMPOSITE  | 6.97      | 79.2      | 494.0      | 4.08       | 13.90      |            |            |            |
| IDLE KEYMODE    | 5124      | 1.98      |            | 132        |            | 725        | 565        | 2.00       |
| LOW CR. KEYMODE | 4110      | 1.56      |            | 1917       |            | 555        | 330        | 1.65       |
| HI. CR. KEYMODE | 3612      | 1.17      |            | 2661       |            | 449        | 245        | 1.20       |
| 2500 RPM        |           |           |            |            |            |            | 250        | 1.60       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 156

1971 VOLK SEDA 97 2000 LBS SEA LEVEL RETROFIT  
4 CYL 1 BBL 4 SPEED 24,425 MILES HAS: EMC, NO EVC, NO PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.99        | -0055        | +00        | +01        | NA         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 4.14        | +0000        | +00        | +00        | NA         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0385 DATE: 09/20/73 BAROMETER: 24.70 WET BULB: 71 DRY BULB: 56  
RELATIVE HUMIDITY : 41.2% NOX HUMIDITY CORRECTION : .919

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.73      | 60.4      | 288.7      | 3.02       | 22.34      |            |            |            |
| COLD STABILIZED | 3.61      | 73.8      | 291.8      | 1.49       | 21.25      |            |            |            |
| HOT TRANSIENT   | 3.62      | 53.9      | 252.5      | 2.48       | 25.54      |            |            |            |
| 1975 COMPOSITE  | 3.85      | 65.5      | 280.2      | 2.09       | 22.54      |            |            |            |
| IDLE KEYMODE    | 4240      | 4.66      |            | 72         |            | 441        | 335        | 4.10       |
| LOW CR. KEYMODE | 3281      | 3.78      |            | 991        |            | 381        | 270        | 3.90       |
| HI. CR. KEYMODE | 2859      | 2.39      |            | 2298       |            | 342        | 210        | 2.50       |
| 2500 RPM        |           |           |            |            |            |            | 160        | 1.90       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0436 DATE: 09/25/73 BAROMETER: 24.48 WET BULB: 70 DRY BULB: 52  
RELATIVE HUMIDITY : 30.8% NOX HUMIDITY CORRECTION : .862

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.90      | 76.9      | 293.7      | 2.62       | 20.56      |            |            |            |
| COLD STABILIZED | 3.95      | 72.2      | 296.1      | 1.46       | 21.10      |            |            |            |
| HOT TRANSIENT   | 4.16      | 56.9      | 252.5      | 2.36       | 25.08      |            |            |            |
| 1975 COMPOSITE  | 4.42      | 68.9      | 283.5      | 1.95       | 21.95      |            |            |            |
| IDLE KEYMODE    | 4735      | 4.14      |            | 69         |            | 528        | 330        | 3.80       |
| LOW CR. KEYMODE | 3429      | 3.20      |            | 993        |            | 405        | 235        | 3.20       |
| HI. CR. KEYMODE | 2978      | 2.56      |            | 1872       |            | 368        | 210        | 3.00       |
| 2500 RPM        |           |           |            |            |            |            | 135        | 1.20       |

MANDATORY MAINTENANCE COST: LABOR= 24.00 PARTS= 10.55 TOTAL= 34.55

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 161

1969 MERC COUG 351 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 47,191 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 0.30        | -0050        | -06        | +00        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 1.37        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0397 DATE: 09/21/73 BAROMETER: 24.56 WET BULB: 70 DRY BULB: 55  
RELATIVE HUMIDITY : 40.6% NOX HUMIDITY CORRECTION : .909

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.16      | 53.8      | 547.2      | 5.54       | 13.67      |            |            |            |
| COLD STABILIZED | 3.96      | 20.1      | 548.8      | 4.36       | 15.02      |            |            |            |
| HOT TRANSIENT   | 3.97      | 19.7      | 479.8      | 5.94       | 17.02      |            |            |            |
| 1975 COMPOSITE  | 4.43      | 27.0      | 529.3      | 5.05       | 15.20      |            |            |            |
| IDLE KEYMODE    | 2747      | 0.37      |            | 233        |            | 324        | 190        | 0.45       |
| LOW CR. KEYMODE | 3523      | 0.23      |            | 2387       |            | 420        | 240        | 0.25       |
| HI. CR. KEYMODE | 3740      | 0.81      |            | 3327       |            | 435        | 260        | 0.85       |
| 2500 RPM        |           |           |            |            |            |            | 100        | 0.45       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0451 DATE: 09/26/73 BAROMETER: 24.85 WET BULB: 71 DRY BULB: 53  
RELATIVE HUMIDITY : 31.4% NOX HUMIDITY CORRECTION : .867

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.93      | 40.9      | 558.2      | 7.78       | 13.82      |            |            |            |
| COLD STABILIZED | 4.62      | 19.9      | 535.4      | 5.96       | 15.32      |            |            |            |
| HOT TRANSIENT   | 4.57      | 16.6      | 478.6      | 8.25       | 17.15      |            |            |            |
| 1975 COMPOSITE  | 5.09      | 23.4      | 524.4      | 6.98       | 15.43      |            |            |            |
| IDLE KEYMODE    | 3362      | 1.37      |            | 92         |            | 315        | 190        | 1.40       |
| LOW CR. KEYMODE | 4103      | 0.18      |            | 2984       |            | 596        | 285        | 0.17       |
| HI. CR. KEYMODE | 3980      | 0.54      |            | 5013       |            | 536        | 285        | 0.50       |
| 2500 RPM        |           |           |            |            |            |            | 100        | 0.45       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 166

1970 VOLK SEDA 97 2000 LBS SEA LEVEL RETROFIT  
4 CYL 1 BBL 4 SPEED 12,474 MILES HAS: EMC, NO EVC, NO PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 4.20        | -0060        | +05        | +00        | NA         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 8.92        | +0000        | +00        | +00        | NA         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0413 DATE: 09/24/73 BAROMETER: 24.49 WET BULB: 72 DRY BULB: 54  
RELATIVE HUMIDITY : 32.5% NOX HUMIDITY CORRECTION : .881

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.35      | 76.4      | 301.3      | 2.64       | 20.32      |            |            |            |
| COLD STABILIZED | 6.21      | 63.6      | 339.3      | 1.87       | 19.40      |            |            |            |
| HOT TRANSIENT   | 5.28      | 69.0      | 255.4      | 2.24       | 23.41      |            |            |            |
| 1975 COMPOSITE  | 5.77      | 67.8      | 308.1      | 2.14       | 20.58      |            |            |            |
| IDLE KEYMODE    | 8898      | 4.45      |            | 51         |            | 745        | 200        | 4.50       |
| LOW CR. KEYMODE | 2754      | 1.61      |            | 1172       |            | 265        | 205        | 1.75       |
| HI. CR. KEYMODE | 2993      | 3.06      |            | 2276       |            | 307        | 210        | 3.10       |
| 2500 RPM        |           |           |            |            |            |            | 180        | 1.60       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0468 DATE: 09/27/73 BAROMETER: 24.98 WET BULB: 70 DRY BULB: 54  
RELATIVE HUMIDITY : 36.9% NOX HUMIDITY CORRECTION : .887

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.80      | 98.3      | 269.1      | 1.92       | 19.87      |            |            |            |
| COLD STABILIZED | 6.51      | 73.6      | 287.7      | 1.40       | 21.01      |            |            |            |
| HOT TRANSIENT   | 4.84      | 72.5      | 240.7      | 1.59       | 24.07      |            |            |            |
| 1975 COMPOSITE  | 6.31      | 78.5      | 270.8      | 1.56       | 21.51      |            |            |            |
| IDLE KEYMODE    | 14028     | 8.92      |            | 33         |            | 2242       | 1350       | 7.00       |
| LOW CR. KEYMODE | 3520      | 2.11      |            | 828        |            | 706        | 210        | 2.10       |
| HI. CR. KEYMODE | 3504      | 4.08      |            | 1731       |            | 674        | 210        | 4.00       |
| 2500 RPM        |           |           |            |            |            |            | 300        | 3.20       |

MANDATORY MAINTENANCE COST: LABOR= 24.00 PARTS= 10.55 TOTAL= 34.55

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 169

1965 PLYM FURY 318 4000 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 113,497 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 7.60        | +0045        | +08        | -02        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 7.21        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0414 DATE: 09/24/73 BAROMETER: 24.49 WET BULB: 72 DRY BULB: 54  
RELATIVE HUMIDITY : 32.5% NOX HUMIDITY CORRECTION : .881

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 23.66     | 289.3     | 407.1      | 1.06       | 9.51       |            |            |            |
| COLD STABILIZED | 15.34     | 236.1     | 354.1      | 0.71       | 11.51      |            |            |            |
| HOT TRANSIENT   | 11.03     | 227.2     | 340.1      | 0.84       | 12.17      |            |            |            |
| 1975 COMPOSITE  | 15.88     | 244.8     | 361.3      | 0.82       | 11.19      |            |            |            |
| IDLE KEYMODE    | 10085     | 8.86      |            | 22         |            | 940        | 860        | 8.20       |
| LOW CR. KEYMODE | 5906      | 9.76      |            | 161        |            | 672        | 475        | 9.10       |
| HI. CR. KEYMODE | 4867      | 7.74      |            | 364        |            | 530        | 420        | 8.00       |
| 2500 RPM        |           |           |            |            |            |            | 560        | 4.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0466 DATE: 09/27/73 BAROMETER: 24.98 WET BULB: 70 DRY BULB: 54  
RELATIVE HUMIDITY : 36.9% NOX HUMIDITY CORRECTION : .887

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 15.72     | 247.4     | 398.6      | 1.09       | 10.64      |            |            |            |
| COLD STABILIZED | 9.89      | 170.7     | 370.2      | 0.97       | 13.30      |            |            |            |
| HOT TRANSIENT   | 7.85      | 171.5     | 339.8      | 1.03       | 14.04      |            |            |            |
| 1975 COMPOSITE  | 10.55     | 187.0     | 367.7      | 1.01       | 12.82      |            |            |            |
| IDLE KEYMODE    | 8924      | 7.21      |            | 37         |            | 1023       | 610        | 6.30       |
| LOW CR. KEYMODE | 5444      | 7.43      |            | 342        |            | 838        | 420        | 7.00       |
| HI. CR. KEYMODE | 4413      | 7.23      |            | 344        |            | 715        | 290        | 7.50       |
| 2500 RPM        |           |           |            |            |            |            | 380        | 6.60       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 171

1965 FORD STAW 289 4500 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 71,092 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 4.80        | +0020        | -03        | +03        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 3.42        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0427 DATE: 09/25/73 BAROMETER: 24.48 WET BULB: 72 DRY BULB: 56  
RELATIVE HUMIDITY : 38.8% NOX HUMIDITY CORRECTION : .915

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 17.03     | 190.7     | 486.1      | 2.11       | 10.61      |            |            |            |
| COLD STABILIZED | 13.84     | 155.8     | 477.8      | 1.99       | 11.62      |            |            |            |
| HOT TRANSIENT   | 10.72     | 132.6     | 450.2      | 2.54       | 12.86      |            |            |            |
| 1975 COMPOSITE  | 13.64     | 156.7     | 471.9      | 2.17       | 11.70      |            |            |            |
| IDLE KEYMODE    | 6219      | 4.83      |            | 72         |            | 844        | 770        | 4.00       |
| LOW CR. KEYMODE | 5411      | 3.61      |            | 1000       |            | 768        | 600        | 3.70       |
| HI. CR. KEYMODE | 5347      | 6.46      |            | 445        |            | 704        | 470        | 6.50       |
| 2500 RPM        |           |           |            |            |            |            | 520        | 4.60       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0477 DATE: 09/28/73 BAROMETER: 24.86 WET BULB: 71 DRY BULB: 56  
RELATIVE HUMIDITY : 41.1% NOX HUMIDITY CORRECTION : .916

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 18.22     | 199.3     | 478.3      | 2.45       | 10.49      |            |            |            |
| COLD STABILIZED | 13.74     | 143.6     | 459.7      | 2.22       | 12.22      |            |            |            |
| HOT TRANSIENT   | 10.46     | 115.9     | 457.9      | 3.64       | 13.23      |            |            |            |
| 1975 COMPOSITE  | 13.77     | 147.6     | 463.1      | 2.66       | 12.06      |            |            |            |
| IDLE KEYMODE    | 7212      | 3.42      |            | 60         |            | 913        | 780        | 3.60       |
| LOW CR. KEYMODE | 6154      | 3.15      |            | 1347       |            | 801        | 575        | 3.40       |
| HI. CR. KEYMODE | 4762      | 1.78      |            | 2372       |            | 569        | 310        | 1.90       |
| 2500 RPM        |           |           |            |            |            |            | 390        | 4.40       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 172

1964 CHEV IMPA 283 3500 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 110,629 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 3.20 | +0290 | +12 | -06 | NA  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 5.65 | +0000 | +00 | +00 | NA  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0428 DATE: 09/25/73 BAROMETER: 24.58 WET BULB: 72 DRY BULB: 51  
RELATIVE HUMIDITY : 23.5% NOX HUMIDITY CORRECTION : .835

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 17.08 | 201.6 | 354.4 | 1.37 | 12.28 |     |      |      |
| COLD STABILIZED | 14.01 | 210.2 | 334.9 | 0.66 | 12.55 |     |      |      |
| HOT TRANSIENT   | 11.81 | 174.2 | 309.4 | 1.11 | 14.35 |     |      |      |
| 1975 COMPOSITE  | 14.04 | 198.4 | 331.9 | 0.93 | 12.95 |     |      |      |
| IDLE KEYMODE    | 6684  | 3.91  |       | 127  |       | 847 | 670  | 3.30 |
| LOW CR. KEYMODE | 6724  | 7.34  |       | 414  |       | 807 | 680  | 7.40 |
| HI. CR. KEYMODE | 5890  | 6.08  |       | 833  |       | 717 | 540  | 6.00 |
| 2500 RPM        |       |       |       |      |       |     | 1000 | 9.00 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0478 DATE: 09/28/73 BAROMETER: 24.86 WET BULB: 70 DRY BULB: 54  
RELATIVE HUMIDITY : 37.0% NOX HUMIDITY CORRECTION : .889

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|-----|-----|-------|
| COLD TRANSIENT  | 16.24 | 224.8 | 372.9 | 0.99 | 11.45 |     |     |       |
| COLD STABILIZED | 12.20 | 226.2 | 329.8 | 0.38 | 12.30 |     |     |       |
| HOT TRANSIENT   | 10.03 | 175.8 | 308.3 | 0.81 | 14.45 |     |     |       |
| 1975 COMPOSITE  | 12.44 | 211.9 | 332.8 | 0.62 | 12.63 |     |     |       |
| IDLE KEYMODE    | 8481  | 5.65  |       | 49   |       | 801 | 550 | 5.00  |
| LOW CR. KEYMODE | 6562  | 9.06  |       | 143  |       | 748 | 420 | 3.40  |
| HI. CR. KEYMODE | 5307  | 5.82  |       | 677  |       | 602 | 350 | 5.80  |
| 2500 RPM        |       |       |       |      |       |     | 650 | ***** |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 173

1972 OLDS CUTL 350 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 26,639 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 4.30        | +0150        | -05        | -06        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 5.04        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0429 DATE: 09/25/73 BAROMETER: 24.48 WET BULB: 70 DRY BULB: 51  
RELATIVE HUMIDITY : 27.7% NOX HUMIDITY CORRECTION : .847

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.94      | 117.1     | 580.4      | 3.46       | 11.33      |            |            |            |
| COLD STABILIZED | 5.54      | 133.2     | 538.5      | 1.36       | 11.64      |            |            |            |
| HOT TRANSIENT   | 4.54      | 87.4      | 485.1      | 2.97       | 13.99      |            |            |            |
| 1975 COMPOSITE  | 5.56      | 117.1     | 532.5      | 2.25       | 12.14      |            |            |            |
| IDLE KEYMODE    | 3787      | 4.52      |            | 72         |            | 536        | 220        | 4.50       |
| LOW CR. KEYMODE | 4080      | 3.55      |            | 695        |            | 591        | 310        | 3.50       |
| HI. CR. KEYMODE | 3301      | 1.19      |            | 2326       |            | 468        | 190        | 1.20       |
| 2500 RPM        |           |           |            |            |            |            | 130        | 3.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0479 DATE: 09/28/73 BAROMETER: 24.83 WET BULB: 71 DRY BULB: 52  
RELATIVE HUMIDITY : 28.3% NOX HUMIDITY CORRECTION : .852

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.28      | 111.1     | 596.2      | 4.49       | 11.26      |            |            |            |
| COLD STABILIZED | 5.37      | 114.7     | 548.3      | 1.87       | 11.94      |            |            |            |
| HOT TRANSIENT   | 5.01      | 72.7      | 511.7      | 4.44       | 13.88      |            |            |            |
| 1975 COMPOSITE  | 5.46      | 102.3     | 548.2      | 3.13       | 12.27      |            |            |            |
| IDLE KEYMODE    | 4394      | 5.04      |            | 84         |            | 495        | 250        | 5.00       |
| LOW CR. KEYMODE | 4592      | 3.82      |            | 760        |            | 632        | 310        | 4.10       |
| HI. CR. KEYMODE | 3472      | 0.76      |            | 3144       |            | 423        | 170        | 0.80       |
| 2500 RPM        |           |           |            |            |            |            | 110        | 3.20       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 175

1972 CHEV NOVA 350 3500 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 21,117 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 2.80 | -0010 | +00 | +01 | OK  | BAD  | OK    | OK    | NO    | NA   |
| AFTER MTCE | 4.30 | +0000 | +00 | +00 | OK  | OK   | OK    | OK    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0443 DATE: 09/26/73 BAROMETER: 24.77 WET BULB: 70 DRY BULB: 53  
RELATIVE HUMIDITY : 33.8% NOX HUMIDITY CORRECTION : .874

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.90 | 94.9 | 555.9 | 3.72 | 12.25 |     |     |      |
| COLD STABILIZED | 4.96 | 65.7 | 546.3 | 2.40 | 13.39 |     |     |      |
| HOT TRANSIENT   | 4.63 | 59.8 | 477.1 | 3.87 | 15.20 |     |     |      |
| 1975 COMPOSITE  | 5.28 | 70.2 | 529.1 | 3.08 | 13.58 |     |     |      |
| IDLE KEYMODE    | 4411 | 2.94 |       | 101  |       | 556 | 395 | 3.00 |
| LOW CR. KEYMODE | 4106 | 2.01 |       | 1699 |       | 541 | 350 | 2.60 |
| HI. CR. KEYMODE | 3577 | 0.98 |       | 2638 |       | 483 | 270 | 1.15 |
| 2500 RPM        |      |      |       |      |       |     | 185 | 2.60 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0596 DATE: 10/10/73 BAROMETER: 24.68 WET BULB: 72 DRY BULB: 52  
RELATIVE HUMIDITY : 26.3% NOX HUMIDITY CORRECTION : .848

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.50 | 129.9 | 536.7 | 2.21 | 11.70 |     |     |      |
| COLD STABILIZED | 4.06 | 74.7  | 561.0 | 1.70 | 12.88 |     |     |      |
| HOT TRANSIENT   | 4.03 | 67.0  | 474.4 | 2.61 | 15.03 |     |     |      |
| 1975 COMPOSITE  | 4.56 | 84.1  | 531.9 | 2.06 | 13.13 |     |     |      |
| IDLE KEYMODE    | 4254 | 4.30  |       | 83   |       | 653 | 210 | 3.40 |
| LOW CR. KEYMODE | 3621 | 2.88  |       | 934  |       | 643 | 160 | 2.50 |
| HI. CR. KEYMODE | 3240 | 1.65  |       | 1748 |       | 580 | 110 | 1.40 |
| 2500 RPM        |      |       |       |      |       |     | 85  | 2.50 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLGRADO-393 \*\*\*

VEHICLE NUMBER: 178

1964 FORD GALA 390 4000 LBS SEA LEVEL RETROFIT  
8 CYL 4 BBL AUTOMATIC 59,024 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 7.00        | -0100        | -02        | +00        | NA         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 7.63        | +0000        | +00        | +00        | NA         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0453 DATE: 09/26/73 BAROMETER: 24.91 WET BULB: 70 DRY BULB: 53  
RELATIVE HUMIDITY : 33.7% NOX HUMIDITY CORRECTION : .872

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 17.19     | 131.5     | 572.7      | 3.00       | 10.68      |            |            |            |
| COLD STABILIZED | 13.95     | 135.5     | 519.5      | 2.51       | 11.47      |            |            |            |
| HOT TRANSIENT   | 9.71      | 91.2      | 489.1      | 2.76       | 13.43      |            |            |            |
| 1975 COMPOSITE  | 13.45     | 122.4     | 522.2      | 2.68       | 11.76      |            |            |            |
| IDLE KEYMODE    | 8486      | 8.03      |            | 78         |            | 1465       | 1100       | 7.20       |
| LOW CR. KEYMODE | 5536      | 2.81      |            | 941        |            | 787        | 490        | 2.80       |
| HI. CR. KEYMODE | 5159      | 1.96      |            | 1922       |            | 674        | 380        | 2.10       |
| 2500 RPM        |           |           |            |            |            |            | 260        | 3.10       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0511 DATE: 10/02/73 BAROMETER: 24.62 WET BULB: 74 DRY BULB: 54  
RELATIVE HUMIDITY : 28.2% NOX HUMIDITY CORRECTION : .867

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 17.66     | 138.1     | 569.0      | 2.73       | 10.58      |            |            |            |
| COLD STABILIZED | 15.89     | 151.2     | 518.6      | 2.53       | 11.04      |            |            |            |
| HOT TRANSIENT   | 11.32     | 109.0     | 488.6      | 2.93       | 12.80      |            |            |            |
| 1975 COMPOSITE  | 15.00     | 136.8     | 520.8      | 2.68       | 11.37      |            |            |            |
| IDLE KEYMODE    | 11049     | 7.63      |            | 60         |            | 1870       | 1550       | 6.50       |
| LOW CR. KEYMODE | 5729      | 2.10      |            | 1427       |            | 904        | 690        | 2.40       |
| HI. CR. KEYMODE | 5046      | 1.90      |            | 1773       |            | 679        | 460        | 2.00       |
| 2500 RPM        |           |           |            |            |            |            | 330        | 3.00       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 179

1973 CHEV NOVA 307 3500 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 17,115 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 1.16 | -0200 | +00 | +01 | OK  | OK   | OK    | NA    | NO    | OK   |
| AFTER MTCE | 3.03 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0708 DATE: 10/22/73 BAROMETER: 24.73 WET BULB: 70 DRY BULB: 51  
RELATIVE HUMIDITY : 27.4% NOX HUMIDITY CORRECTION : .845

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.08 | 84.8 | 599.2 | 1.91 | 11.95 |     |     |      |
| COLD STABILIZED | 2.50 | 56.7 | 562.6 | 1.32 | 13.50 |     |     |      |
| HOT TRANSIENT   | 2.49 | 67.7 | 471.6 | 1.44 | 15.20 |     |     |      |
| 1975 COMPOSITE  | 2.83 | 65.6 | 545.0 | 1.48 | 13.56 |     |     |      |
| IDLE KEYMODE    | 898  | 1.62 |       | 49   |       | 197 | 20  | 0.37 |
| LOW CR. KEYMODE | 1919 | 2.21 |       | 546  |       | 303 | 40  | 0.50 |
| HI. CR. KEYMODE | 1319 | 2.67 |       | 556  |       | 266 | 30  | 0.65 |
| 2500 RPM        |      |      |       |      |       |     | 20  | 0.15 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0615 DATE: 10/11/73 BAROMETER: 24.47 WET BULB: 74 DRY BULB: 52  
RELATIVE HUMIDITY : 22.6% NOX HUMIDITY CORRECTION : .839

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.19 | 122.4 | 630.4 | 1.84 | 10.53 |     |     |      |
| COLD STABILIZED | 2.96 | 51.1  | 593.8 | 1.84 | 13.03 |     |     |      |
| HOT TRANSIENT   | 2.80 | 59.9  | 533.5 | 2.09 | 13.99 |     |     |      |
| 1975 COMPOSITE  | 3.80 | 68.5  | 584.7 | 1.91 | 12.65 |     |     |      |
| IDLE KEYMODE    | 3560 | 3.03  |       | 87   |       | 424 | 175 | 1.60 |
| LOW CR. KEYMODE | 2567 | 1.08  |       | 1045 |       | 335 | 110 | 0.65 |
| HI. CR. KEYMODE | 1764 | 1.87  |       | 849  |       | 293 | 80  | 1.21 |
| 2500 RPM        |      |       |       |      |       |     | 65  | 0.17 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 180

1968 FORD GALA 302 4000 LBS TUNE UP EVALUATION

8 CYL 2 BBL AUTOMATIC 76,747 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 6.70        | -0020        | +04        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 7.38        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0456 DATE: 09/27/73 BAROMETER: 25.06 WET BULB: 74 DRY BULB: 53  
RELATIVE HUMIDITY : 24.9% NOX HUMIDITY CORRECTION : .848

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.89      | 90.5      | 585.8      | 7.19       | 11.78      |            |            |            |
| COLD STABILIZED | 5.66      | 66.7      | 535.0      | 6.09       | 13.54      |            |            |            |
| HOT TRANSIENT   | 5.60      | 57.2      | 488.1      | 7.55       | 14.95      |            |            |            |
| 1975 COMPOSITE  | 6.32      | 69.1      | 532.6      | 6.73       | 13.47      |            |            |            |
| IDLE KEYMODE    | 6014      | 7.17      |            | 64         |            | 791        | 550        | 7.20       |
| LOW CR. KEYMODE | 3294      | 0.42      |            | 3619       |            | 591        | 235        | 0.55       |
| HI. CR. KEYMODE | 3960      | 5.67      |            | 861        |            | 616        | 265        | 5.40       |
| 2500 RPM        |           |           |            |            |            |            | ****       | 1.10       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0599 DATE: 10/10/73 BAROMETER: 24.66 WET BULB: 71 DRY BULB: 52  
RELATIVE HUMIDITY : 28.4% NOX HUMIDITY CORRECTION : .854

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 14.87     | 188.3     | 555.6      | 3.00       | 9.91       |            |            |            |
| COLD STABILIZED | 4.53      | 81.2      | 529.7      | 3.23       | 13.26      |            |            |            |
| HOT TRANSIENT   | 4.77      | 71.5      | 471.8      | 4.03       | 14.86      |            |            |            |
| 1975 COMPOSITE  | 6.76      | 100.9     | 519.1      | 3.41       | 12.74      |            |            |            |
| IDLE KEYMODE    | 4391      | 7.38      |            | 67         |            | 501        | 210        | 6.00       |
| LOW CR. KEYMODE | 2572      | 0.57      |            | 1861       |            | 441        | 110        | 0.50       |
| HI. CR. KEYMODE | 3585      | 6.02      |            | 604        |            | 526        | 150        | 5.10       |
| 2500 RPM        |           |           |            |            |            |            | 80         | 1.10       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 181

1968 CHEV NOVA 307 3000 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 42,449 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 6.80 | -0060 | +08 | -05 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 6.09 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0457 DATE: 09/27/73 BAROMETER: 25.06 WET BULB: 70 DRY BULB: 54  
RELATIVE HUMIDITY : 36.8% NOX HUMIDITY CORRECTION : .886

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 8.27 | 108.6 | 431.6 | 3.45 | 14.17 |      |     |      |
| COLD STABILIZED | 7.34 | 96.2  | 403.1 | 2.69 | 15.42 |      |     |      |
| HOT TRANSIENT   | 5.60 | 72.7  | 366.9 | 3.48 | 17.85 |      |     |      |
| 1975 COMPOSITE  | 7.05 | 92.3  | 399.0 | 3.07 | 15.73 |      |     |      |
| IDLE KEYMODE    | 6918 | 7.35  |       | 65   |       | 1109 | 740 | 7.00 |
| LOW CR. KEYMODE | 4425 | 2.29  |       | 1765 |       | 755  | 390 | 2.50 |
| HI. CR. KEYMODE | 4354 | 2.99  |       | 1959 |       | 704  | 330 | 3.00 |
| 2500 RPM        |      |       |       |      |       |      | 340 | 2.50 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0602 DATE: 10/11/73 BAROMETER: 24.48 WET BULB: 70 DRY BULB: 53  
RELATIVE HUMIDITY : 34.0% NOX HUMIDITY CORRECTION : .877

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.67 | 120.1 | 445.9 | 2.42 | 13.58 |     |     |      |
| COLD STABILIZED | 5.56 | 100.0 | 438.1 | 1.70 | 14.53 |     |     |      |
| HOT TRANSIENT   | 5.02 | 97.5  | 385.3 | 2.37 | 16.06 |     |     |      |
| 1975 COMPOSITE  | 5.64 | 103.5 | 425.1 | 2.04 | 14.71 |     |     |      |
| IDLE KEYMODE    | 4946 | 6.09  |       | 85   |       | 625 | 295 | 5.55 |
| LOW CR. KEYMODE | 3670 | 2.96  |       | 1276 |       | 508 | 175 | 2.50 |
| HI. CR. KEYMODE | 3577 | 3.68  |       | 1375 |       | 483 | 155 | 3.20 |
| 2500 RPM        |      |       |       |      |       |     | 150 | 2.60 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 182

1968 CHEV CAME 327 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 83,926 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.90        | -0160        | +04        | +00        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 4.10        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0458 DATE: 09/27/73 BAROMETER: 25.06 WET BULB: 70 DRY BULB: 53  
RELATIVE HUMIDITY : 33.5% NOX HUMIDITY CORRECTION : .871

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 12.55     | 157.3     | 476.7      | 3.71       | 11.66      |            |            |            |
| COLD STABILIZED | 7.86      | 74.0      | 447.5      | 3.20       | 15.12      |            |            |            |
| HOT TRANSIENT   | 6.95      | 79.1      | 414.7      | 3.90       | 15.87      |            |            |            |
| 1975 COMPOSITE  | 8.59      | 92.9      | 444.5      | 3.50       | 14.42      |            |            |            |
| IDLE KEYMODE    | 7035      | 6.16      |            | 82         |            | 885        | 730        | 6.00       |
| LOW CR. KEYMODE | 4574      | 1.77      |            | 1992       |            | 689        | 390        | 1.90       |
| HI. CR. KEYMODE | 4238      | 2.45      |            | 2252       |            | 625        | 310        | 2.50       |
| 2500 RPM        |           |           |            |            |            |            | 280        | 2.00       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0524 DATE: 10/03/73 BAROMETER: 24.81 WET BULB: 73 DRY BULB: 54  
RELATIVE HUMIDITY : 30.1% NOX HUMIDITY CORRECTION : .871

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.71     | 132.4     | 445.7      | 2.32       | 12.95      |            |            |            |
| COLD STABILIZED | 6.37      | 86.3      | 434.5      | 1.78       | 15.09      |            |            |            |
| HOT TRANSIENT   | 6.90      | 87.3      | 378.2      | 2.44       | 16.58      |            |            |            |
| 1975 COMPOSITE  | 7.42      | 96.2      | 421.2      | 2.08       | 14.95      |            |            |            |
| IDLE KEYMODE    | 5780      | 4.10      |            | 147        |            | 909        | 460        | 4.20       |
| LOW CR. KEYMODE | 4592      | 2.58      |            | 994        |            | 765        | 300        | 2.70       |
| HI. CR. KEYMODE | 4278      | 3.07      |            | 1662       |            | 708        | 240        | 0.90       |
| 2500 RPM        |           |           |            |            |            |            | 220        | 1.00       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 183

1971 CHEV STAW 400 4500 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 21,163 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 2.00 | -0010 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 5.23 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0459 DATE: 09/27/73 BAROMETER: 25.05 WET BULB: 70 DRY BULB: 53  
RELATIVE HUMIDITY : 33.5% NOX HUMIDITY CORRECTION : .871

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.79 | 230.9 | 626.5 | 2.55 | 8.70  |     |     |      |
| COLD STABILIZED | 4.33  | 72.7  | 701.1 | 2.95 | 10.74 |     |     |      |
| HOT TRANSIENT   | 4.41  | 92.8  | 579.4 | 3.39 | 12.05 |     |     |      |
| 1975 COMPOSITE  | 5.70  | 111.4 | 651.7 | 2.99 | 10.54 |     |     |      |
| IDLE KEYMODE    | 3634  | 2.15  |       | 149  |       | 544 | 235 | 2.10 |
| LOW CR. KEYMODE | 2701  | 0.82  |       | 1529 |       | 445 | 120 | 0.75 |
| HI. CR. KEYMODE | 3238  | 2.71  |       | 1569 |       | 469 | 145 | 2.70 |
| 2500 RPM        |       |       |       |      |       |     | 50  | 0.55 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0597 DATE: 10/10/73 BAROMETER: 24.68 WET BULB: 71 DRY BULB: 52  
RELATIVE HUMIDITY : 28.4% NOX HUMIDITY CORRECTION : .854

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.92 | 206.5 | 572.9 | 1.96 | 9.65  |     |     |      |
| COLD STABILIZED | 3.61 | 84.1  | 646.9 | 2.47 | 11.27 |     |     |      |
| HOT TRANSIENT   | 4.12 | 103.0 | 532.0 | 2.58 | 12.60 |     |     |      |
| 1975 COMPOSITE  | 4.65 | 115.0 | 599.5 | 2.39 | 11.21 |     |     |      |
| IDLE KEYMODE    | 3992 | 5.23  |       | 86   |       | 542 | 185 | 4.00 |
| LOW CR. KEYMODE | 2231 | 0.94  |       | 1168 |       | 405 | 79  | 0.90 |
| HI. CR. KEYMODE | 2574 | 3.17  |       | 1337 |       | 451 | 95  | 2.60 |
| 2500 RPM        |      |       |       |      |       |     | 45  | 0.90 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 134

1971 CHEV IMPA 350      4000 LBS      HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC      35,988 MILES      HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 4.80        | +0100        | +04        | -02        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 1.33        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0467    DATE: 09/27/73    BAROMETER: 24.98    WET BULB: 70    DRY BULB: 52  
RELATIVE HUMIDITY : 30.4%    NOX HUMIDITY CORRECTION : .857

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.27      | 121.1     | 600.7      | 3.68       | 10.98      |            |            |            |
| COLD STABILIZED | 4.90      | 59.8      | 600.2      | 3.49       | 12.55      |            |            |            |
| HOT TRANSIENT   | 4.39      | 64.8      | 510.6      | 4.18       | 14.22      |            |            |            |
| 1975 COMPOSITE  | 5.04      | 74.0      | 575.4      | 3.72       | 12.59      |            |            |            |
| IDLE KEYMODE    | 4901      | 5.35      |            | 94         |            | 759        | 390        | 5.20       |
| LOW CR. KEYMODE | 3793      | 1.07      |            | 1548       |            | 636        | 230        | 1.20       |
| HI. CR. KEYMODE | 2945      | 0.44      |            | 3183       |            | 555        | 140        | 0.50       |
| 2500 RPM        |           |           |            |            |            |            | 110        | 1.70       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0526    DATE: 10/03/73    BAROMETER: 24.82    WET BULB: 69    DRY BULB: 56  
RELATIVE HUMIDITY : 46.6%    NOX HUMIDITY CORRECTION : .930

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.75      | 99.8      | 627.7      | 3.02       | 11.09      |            |            |            |
| COLD STABILIZED | 3.14      | 31.0      | 655.2      | 2.56       | 12.48      |            |            |            |
| HOT TRANSIENT   | 3.58      | 55.9      | 529.7      | 3.02       | 14.16      |            |            |            |
| 1975 COMPOSITE  | 3.81      | 52.3      | 614.7      | 2.78       | 12.57      |            |            |            |
| IDLE KEYMODE    | 2301      | 1.33      |            | 70         |            | 561        | 85         | 1.30       |
| LOW CR. KEYMODE | 1370      | 0.20      |            | 593        |            | 538        | 50         | 0.20       |
| HI. CR. KEYMODE | 1983      | 0.40      |            | 2052       |            | 537        | 62         | 0.40       |
| 2500 RPM        |           |           |            |            |            |            | 39         | 1.00       |

MANDATORY MAINTENANCE COST: LABOR= 33.60    PARTS= 23.51    TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 187

1973 FORD LTD 351 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 4,725 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 0.60 | -0155 | +10 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |
| AFTER MTCE | 0.44 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0482 DATE: 10/01/73 BAROMETER: 24.74 WET BULB: 70 DRY BULB: 54  
RELATIVE HUMIDITY : 37.1% NOX HUMIDITY CORRECTION : .890

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.29 | 134.7 | 659.0 | 2.09 | 10.00 |     |     |      |
| COLD STABILIZED | 4.48 | 78.8  | 661.6 | 1.92 | 11.14 |     |     |      |
| HOT TRANSIENT   | 3.99 | 79.1  | 537.5 | 2.00 | 13.21 |     |     |      |
| 1975 COMPOSITE  | 4.72 | 90.6  | 626.6 | 1.98 | 11.36 |     |     |      |
| IDLE KEYMODE    | 2763 | 0.62  |       | 184  |       | 354 | 140 | 0.70 |
| LOW CR. KEYMODE | 3607 | 2.18  |       | 1826 |       | 508 | 220 | 2.20 |
| HI. CR. KEYMODE | 3176 | 2.16  |       | 1154 |       | 451 | 165 | 2.10 |
| 2500 RPM        |      |       |       |      |       |     | 110 | 3.10 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0525 DATE: 10/03/73 BAROMETER: 24.82 WET BULB: 69 DRY BULB: 56  
RELATIVE HUMIDITY : 46.6% NOX HUMIDITY CORRECTION : .930

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.09 | 115.6 | 659.9 | 1.90 | 10.35 |     |     |      |
| COLD STABILIZED | 3.86 | 75.7  | 694.1 | 1.86 | 10.79 |     |     |      |
| HOT TRANSIENT   | 4.07 | 73.7  | 566.0 | 1.81 | 12.82 |     |     |      |
| 1975 COMPOSITE  | 4.39 | 83.5  | 651.4 | 1.85 | 11.18 |     |     |      |
| IDLE KEYMODE    | 2041 | 0.44  |       | 86   |       | 565 | 80  | 0.39 |
| LOW CR. KEYMODE | 3086 | 1.60  |       | 1004 |       | 643 | 130 | 1.70 |
| HI. CR. KEYMODE | 2832 | 1.80  |       | 982  |       | 596 | 115 | 1.70 |
| 2500 RPM        |      |       |       |      |       |     | 60  | 2.60 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 188

1971 MERC COUG 351 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 17,215 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 2.50        | +0025        | +00        | +02        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 2.60        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0483 DATE: 10/01/73 BAROMETER: 24.74 WET BULB: 70 DRY BULB: 54  
RELATIVE HUMIDITY : 37.1% NOX HUMIDITY CORRECTION : .890

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.74      | 84.1      | 591.4      | 5.33       | 11.85      |            |            |            |
| COLD STABILIZED | 4.74      | 54.4      | 611.4      | 4.84       | 12.51      |            |            |            |
| HOT TRANSIENT   | 4.91      | 48.6      | 537.3      | 6.06       | 14.16      |            |            |            |
| 1975 COMPOSITE  | 5.63      | 59.0      | 586.6      | 5.28       | 12.78      |            |            |            |
| IDLE KEYMODE    | 3826      | 2.60      |            | 177        |            | 449        | 250        | 2.60       |
| LOW CR. KEYMODE | 3461      | 0.36      |            | 2923       |            | 426        | 180        | 0.30       |
| HI. CR. KEYMODE | 3091      | 0.83      |            | 3008       |            | 372        | 130        | 0.75       |
| 2500 RPM        |           |           |            |            |            |            | 80         | 0.50       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0483 DATE: 10/01/73 BAROMETER: 24.74 WET BULB: 70 DRY BULB: 54  
RELATIVE HUMIDITY : 37.1% NOX HUMIDITY CORRECTION : .890

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.74      | 84.1      | 591.4      | 5.33       | 11.85      |            |            |            |
| COLD STABILIZED | 4.74      | 54.4      | 611.4      | 4.84       | 12.51      |            |            |            |
| HOT TRANSIENT   | 4.91      | 48.6      | 537.3      | 6.06       | 14.16      |            |            |            |
| 1975 COMPOSITE  | 5.63      | 59.0      | 586.6      | 5.28       | 12.78      |            |            |            |
| IDLE KEYMODE    | 3826      | 2.60      |            | 177        |            | 449        | 250        | 2.60       |
| LOW CR. KEYMODE | 3461      | 0.36      |            | 2923       |            | 426        | 180        | 0.30       |
| HI. CR. KEYMODE | 3091      | 0.83      |            | 3008       |            | 372        | 130        | 0.75       |
| 2500 RPM        |           |           |            |            |            |            | 80         | 0.50       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 193

1969 FORD FAIR 302 3500 LBS TUNE UP EVALUATION  
8 CYL 2 BBL 3 SPEED 54,596 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.10        | +0090        | +04        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 8.92        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0481 DATE: 10/01/73 BAROMETER: 24.74 WET BULB: 71 DRY BULB: 54  
RELATIVE HUMIDITY : 34.6% NOX HUMIDITY CORRECTION : .884

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 9.64      | 75.2      | 444.6      | 4.41       | 15.01      |            |            |            |
| COLD STABILIZED | 7.12      | 89.3      | 480.9      | 3.28       | 13.83      |            |            |            |
| HOT TRANSIENT   | 6.11      | 49.5      | 412.5      | 4.71       | 17.48      |            |            |            |
| 1975 COMPOSITE  | 7.37      | 75.3      | 454.3      | 3.91       | 14.95      |            |            |            |
| IDLE KEYMODE    | 3400      | 3.38      |            | 78         |            | 346        | 150        | 3.10       |
| LOW CR. KEYMODE | 4378      | 0.82      |            | 2386       |            | 602        | 300        | 0.80       |
| HI. CR. KEYMODE | 4199      | 0.90      |            | 3346       |            | 538        | 240        | 0.70       |
| 2500 RPM        |           |           |            |            |            |            | 130        | 1.60       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0646 DATE: 10/15/73 BAROMETER: 24.94 WET BULB: 75 DRY BULB: 57  
RELATIVE HUMIDITY : 34.6% NOX HUMIDITY CORRECTION : .908

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.97     | 102.9     | 393.8      | 2.97       | 15.09      |            |            |            |
| COLD STABILIZED | 8.51      | 106.9     | 419.4      | 2.56       | 14.50      |            |            |            |
| HOT TRANSIENT   | 6.50      | 63.1      | 361.7      | 4.06       | 18.50      |            |            |            |
| 1975 COMPOSITE  | 8.47      | 93.9      | 398.0      | 3.06       | 15.56      |            |            |            |
| IDLE KEYMODE    | 7852      | 8.92      |            | 36         |            | 660        | 840        | 7.80       |
| LOW CR. KEYMODE | 3709      | 0.62      |            | 2229       |            | 553        | 540        | 0.65       |
| HI. CR. KEYMODE | 3579      | 0.51      |            | 3771       |            | 532        | 480        | 0.45       |
| 2500 RPM        |           |           |            |            |            |            | ****       | 1.30       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 194

1968 CHEV IMPA 327 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 54,000 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 7.50        | -0020        | +07        | +00        | OK         | OK          | OK           | NA           | NC           | NA          |
| AFTER MTCE | 3.75        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0496 DATE: 10/02/73 BAROMETER: 24.67 WET BULB: 75 DRY BULB: 55  
RELATIVE HUMIDITY : 29.0% NOX HUMIDITY CORRECTION : .877

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 19.68     | 314.1     | 393.2      | 0.57       | 9.38       |            |            |            |
| COLD STABILIZED | 13.21     | 312.3     | 397.8      | 0.32       | 9.57       |            |            |            |
| HOT TRANSIENT   | 11.56     | 262.0     | 336.2      | 0.44       | 11.35      |            |            |            |
| 1975 COMPOSITE  | 14.10     | 298.7     | 379.8      | 0.41       | 9.97       |            |            |            |
| IDLE KEYMODE    | 6912      | 7.95      |            | 53         |            | 681        | 560        | 7.60       |
| LOW CR. KEYMODE | 6311      | 10.68     |            | 129        |            | 819        | 530        | 9.60       |
| HI. CR. KEYMODE | 6050      | 10.90     |            | 156        |            | 789        | 585        | *****      |
| 2500 RPM        |           |           |            |            |            |            | 530        | 9.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0595 DATE: 10/10/73 BAROMETER: 24.68 WET BULB: 72 DRY BULB: 52  
RELATIVE HUMIDITY : 26.3% NOX HUMIDITY CORRECTION : .848

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.59     | 180.8     | 474.3      | 2.13       | 11.24      |            |            |            |
| COLD STABILIZED | 6.03      | 120.1     | 478.5      | 1.49       | 12.98      |            |            |            |
| HOT TRANSIENT   | 5.42      | 99.7      | 411.5      | 2.33       | 15.21      |            |            |            |
| 1975 COMPOSITE  | 6.82      | 127.2     | 459.0      | 1.86       | 13.09      |            |            |            |
| IDLE KEYMODE    | 4760      | 3.75      |            | 83         |            | 864        | 230        | 3.10       |
| LOW CR. KEYMODE | 4348      | 4.45      |            | 846        |            | 865        | 255        | 3.60       |
| HI. CR. KEYMODE | 3917      | 3.04      |            | 1671       |            | 766        | 190        | 2.40       |
| 2500 RPM        |           |           |            |            |            |            | 210        | 4.00       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 195

1973 CHEV CHEV 350 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 6,886 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 2.90 | +0140 | +04 | +00 | OK  | OK   | OK    | OK    | NO    | OK   |
| AFTER MTCE | 0.21 | +0000 | +00 | +00 | OK  | OK   | OK    | OK    | NO    | OK   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0514 DATE: 10/03/73 BAROMETER: 24.71 WET BULB: 71 DRY BULB: 55  
RELATIVE HUMIDITY : 37.9% NOX HUMIDITY CORRECTION : .901

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.76 | 105.1 | 593.7 | 1.74 | 11.46 |     |     |      |
| COLD STABILIZED | 3.54 | 53.5  | 619.9 | 1.59 | 12.45 |     |     |      |
| HOT TRANSIENT   | 3.59 | 55.2  | 525.7 | 2.00 | 14.28 |     |     |      |
| 1975 COMPOSITE  | 4.02 | 64.8  | 588.3 | 1.74 | 12.67 |     |     |      |
| IDLE KEYMODE    | 3783 | 4.02  |       | 62   |       | 522 | 215 | 3.00 |
| LOW CR. KEYMODE | 2164 | 0.20  |       | 861  |       | 395 | 100 | 0.18 |
| HI. CR. KEYMODE | 3034 | 3.93  |       | 462  |       | 458 | 145 | 3.20 |
| 2500 RPM        |      |       |       |      |       |     | 60  | 0.23 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0569 DATE: 10/08/73 BAROMETER: 24.43 WET BULB: 74 DRY BULB: 49  
RELATIVE HUMIDITY : 14.6% NOX HUMIDITY CORRECTION : .801

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 6.97 | 113.4 | 635.1 | 1.66 | 10.66 |      |     |      |
| COLD STABILIZED | 3.04 | 26.7  | 641.7 | 1.34 | 12.85 |      |     |      |
| HOT TRANSIENT   | 3.29 | 66.7  | 521.0 | 1.07 | 14.00 |      |     |      |
| 1975 COMPOSITE  | 3.93 | 55.9  | 606.8 | 1.33 | 12.60 |      |     |      |
| IDLE KEYMODE    | 6008 | 0.21  |       | 31   |       | 1260 | 350 | 0.12 |
| LOW CR. KEYMODE | 2254 | 0.32  |       | 535  |       | 654  | 120 | 0.20 |
| HI. CR. KEYMODE | 2257 | 4.56  |       | 289  |       | 588  | 130 | 3.80 |
| 2500 RPM        |      |       |       |      |       |      | 70  | 0.35 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 196

1971 CHEV CAPR 400 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 36,250 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 0.45 | +0290 | +04 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 0.50 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0513 DATE: 10/03/73 BAROMETER: 24.71 WET BULB: 75 DRY BULB: 55  
RELATIVE HUMIDITY : 28.9% NOX HUMIDITY CORRECTION : .876

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.35 | 83.0 | 689.6 | 6.29 | 10.60 |     |     |      |
| COLD STABILIZED | 4.48 | 35.2 | 700.6 | 5.03 | 11.56 |     |     |      |
| HOT TRANSIENT   | 4.44 | 51.0 | 624.1 | 6.57 | 12.40 |     |     |      |
| 1975 COMPOSITE  | 4.86 | 49.6 | 677.1 | 5.72 | 11.56 |     |     |      |
| IDLE KEYMODE    | 2890 | 0.41 |       | 416  |       | 350 | 210 | 0.45 |
| LOW CR. KEYMODE | 2873 | 0.52 |       | 2584 |       | 359 | 160 | 0.50 |
| HI. CR. KEYMODE | 3035 | 1.60 |       | 2323 |       | 373 | 160 | 1.70 |
| 2500 RPM        |      |      |       |      |       |     | 75  | 1.60 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0570 DATE: 10/08/73 BAROMETER: 24.42 WET BULB: 72 DRY BULB: 48  
RELATIVE HUMIDITY : 15.2% NOX HUMIDITY CORRECTION : .799

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.13 | 99.1 | 594.5 | 4.83 | 11.57 |     |     |      |
| COLD STABILIZED | 3.76 | 35.1 | 619.6 | 4.18 | 12.97 |     |     |      |
| HOT TRANSIENT   | 3.84 | 54.0 | 541.5 | 5.18 | 13.95 |     |     |      |
| 1975 COMPOSITE  | 4.28 | 53.8 | 592.7 | 4.59 | 12.90 |     |     |      |
| IDLE KEYMODE    | 3108 | 0.50 |       | 111  |       | 655 | 215 | 0.50 |
| LOW CR. KEYMODE | 2584 | 0.21 |       | 2362 |       | 594 | 140 | 0.20 |
| HI. CR. KEYMODE | 2833 | 1.65 |       | 2528 |       | 583 | 150 | 1.60 |
| 2500 RPM        |      |      |       |      |       |     | 90  | 1.80 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 198

1966 CHEV IMPA 283 4000 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 83,297 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 9.50        | -0020        | +10        | +03        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 11.61       | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0517 DATE: 10/03/73 BAROMETER: 24.71 WET BULB: 69 DRY BULB: 54  
RELATIVE HUMIDITY : 39.7% NOX HUMIDITY CORRECTION : .896

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 44.16     | 181.7     | 505.8      | 4.03       | 9.56       |            |            |            |
| COLD STABILIZED | 45.79     | 207.8     | 380.2      | 1.17       | 10.45      |            |            |            |
| HOT TRANSIENT   | 33.74     | 172.4     | 394.8      | 2.57       | 11.53      |            |            |            |
| 1975 COMPOSITE  | 42.11     | 192.5     | 410.5      | 2.16       | 10.52      |            |            |            |
| IDLE KEYMODE    | 21814     | 10.98     |            | 16         |            | ****       | ****       | 9.60       |
| LOW CR. KEYMODE | 13717     | 4.82      |            | 824        |            | ****       | ****       | 4.80       |
| HI. CR. KEYMODE | 15624     | 7.04      |            | 718        |            | ****       | ****       | 6.50       |
| 2500 RPM        |           |           |            |            |            |            | ****       | 7.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0715 DATE: 10/22/73 BAROMETER: 24.83 WET BULB: 76 DRY BULB: 52  
RELATIVE HUMIDITY : 18.8% NOX HUMIDITY CORRECTION : .825

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 12.63     | 182.1     | 441.5      | 1.79       | 11.60      |            |            |            |
| COLD STABILIZED | 10.72     | 196.6     | 400.2      | 0.94       | 11.98      |            |            |            |
| HOT TRANSIENT   | 8.11      | 164.7     | 368.5      | 1.41       | 13.64      |            |            |            |
| 1975 COMPOSITE  | 10.40     | 184.7     | 400.1      | 1.25       | 12.32      |            |            |            |
| IDLE KEYMODE    | 9094      | 11.61     |            | 26         |            | 1185       | 780        | 9.40       |
| LOW CR. KEYMODE | 4795      | 5.76      |            | 556        |            | 709        | 400        | 4.40       |
| HI. CR. KEYMODE | 4171      | 4.62      |            | 1178       |            | 591        | 290        | 3.80       |
| 2500 RPM        |           |           |            |            |            |            | 520        | 7.70       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 200

1972 CHEV NOVA 307 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 15,710 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.75        | +0080        | +02        | +03        | BAD        | OK          | OK           | NA           | YES          | NA          |
| AFTER MTCE | 2.16        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0531 DATE: 10/04/73 BAROMETER: 24.94 WET BULB: 70 DRY BULB: 54  
RELATIVE HUMIDITY : 36.9% NOX HUMIDITY CORRECTION : .888

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 9.90      | 160.4     | 498.3      | 1.64       | 11.39      |            |            |            |
| COLD STABILIZED | 7.78      | 117.7     | 516.6      | 1.61       | 12.26      |            |            |            |
| HOT TRANSIENT   | 6.94      | 109.4     | 447.1      | 1.76       | 13.89      |            |            |            |
| 1975 COMPOSITE  | 7.99      | 124.3     | 493.5      | 1.66       | 12.47      |            |            |            |
| IDLE KEYMODE    | 6233      | 6.45      |            | 82         |            | 1231       | 570        | 5.80       |
| LOW CR. KEYMODE | 4756      | 1.47      |            | 1133       |            | 891        | 270        | 1.30       |
| HI. CR. KEYMODE | 5561      | 4.12      |            | 839        |            | 1001       | 420        | 3.60       |
| 2500 RPM        |           |           |            |            |            |            | 160        | 1.30       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0582 DATE: 10/09/73 BAROMETER: 24.37 WET BULB: 71 DRY BULB: 53  
RELATIVE HUMIDITY : 31.8% NOX HUMIDITY CORRECTION : .872

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 9.53      | 174.8     | 528.5      | 0.98       | 10.69      |            |            |            |
| COLD STABILIZED | 5.57      | 68.7      | 563.5      | 1.53       | 12.92      |            |            |            |
| HOT TRANSIENT   | 5.68      | 106.8     | 450.0      | 1.33       | 14.01      |            |            |            |
| 1975 COMPOSITE  | 6.43      | 101.5     | 524.7      | 1.36       | 12.64      |            |            |            |
| IDLE KEYMODE    | 4551      | 2.16      |            | 149        |            | 628        | 315        | 1.40       |
| LOW CR. KEYMODE | 4327      | 2.56      |            | 806        |            | 566        | 225        | 2.30       |
| HI. CR. KEYMODE | 6108      | 10.29     |            | 141        |            | 783        | 355        | 9.00       |
| 2500 RPM        |           |           |            |            |            |            | 115        | 2.10       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 204

1970 FORD GALA 390 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 20,723 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 0.59 | -0200 | +01 | +03 | OK  | OK   | OK    | OK    | NO    | NA   |
| AFTER MTCE | 0.14 | +0000 | +00 | +00 | OK  | OK   | OK    | OK    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0543 DATE: 10/05/73 BAROMETER: 24.83 WET BULB: 71 DRY BULB: 56  
RELATIVE HUMIDITY : 41.1% NOX HUMIDITY CORRECTION : .917

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.75 | 153.8 | 623.6 | 4.83 | 9.97  |     |     |      |
| COLD STABILIZED | 4.28 | 65.0  | 657.6 | 3.86 | 11.52 |     |     |      |
| HOT TRANSIENT   | 4.64 | 70.5  | 569.2 | 5.42 | 12.82 |     |     |      |
| 1975 COMPOSITE  | 5.32 | 85.1  | 625.9 | 4.50 | 11.47 |     |     |      |
| IDLE KEYMODE    | 2394 | 1.01  |       | 339  |       | 908 | 155 | 0.70 |
| LOW CR. KEYMODE | 3482 | 2.49  |       | 2377 |       | 751 | 230 | 2.30 |
| HI. CR. KEYMODE | 3250 | 2.89  |       | 2544 |       | 699 | 170 | 2.60 |
| 2500 RPM        |      |       |       |      |       |     | 95  | 3.10 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0603 DATE: 10/11/73 BAROMETER: 24.48 WET BULB: 70 DRY BULB: 53  
RELATIVE HUMIDITY : 34.0% NOX HUMIDITY CORRECTION : .877

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.05 | 196.6 | 643.2 | 3.00 | 9.08  |     |     |      |
| COLD STABILIZED | 3.77 | 83.8  | 690.6 | 2.44 | 10.68 |     |     |      |
| HOT TRANSIENT   | 4.66 | 96.4  | 571.0 | 3.40 | 12.08 |     |     |      |
| 1975 COMPOSITE  | 5.12 | 110.9 | 647.5 | 2.82 | 10.63 |     |     |      |
| IDLE KEYMODE    | 1723 | 0.14  |       | 217  |       | 291 | 75  | 0.18 |
| LOW CR. KEYMODE | 3356 | 3.27  |       | 1516 |       | 516 | 155 | 2.80 |
| HI. CR. KEYMODE | 2250 | 2.37  |       | 1591 |       | 392 | 80  | 2.00 |
| 2500 RPM        |      |       |       |      |       |     | 60  | 2.70 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 205

1969 CHEV STAW 350 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 93,878 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.90        | +0000        | -02        | +00        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 0.63        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0544 DATE: 10/05/73 BAROMETER: 24.84 WET BULB: 71 DRY BULB: 56  
RELATIVE HUMIDITY : 41.1% NOX HUMIDITY CORRECTION : .917

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.79      | 101.0     | 591.5      | 4.67       | 11.54      |            |            |            |
| COLD STABILIZED | 5.92      | 85.4      | 584.9      | 3.04       | 12.07      |            |            |            |
| HOT TRANSIENT   | 4.76      | 50.1      | 524.0      | 4.95       | 14.41      |            |            |            |
| 1975 COMPOSITE  | 5.78      | 78.9      | 569.4      | 3.91       | 12.52      |            |            |            |
| IDLE KEYMODE    | 4646      | 4.40      |            | 105        |            | 853        | 350        | 3.80       |
| LOW CR. KEYMODE | 3831      | 1.56      |            | 1418       |            | 752        | 260        | 1.40       |
| HI. CR. KEYMODE | 3285      | 0.39      |            | 2807       |            | 665        | 180        | 0.38       |
| 2500 RPM        |           |           |            |            |            |            | 120        | 2.20       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0594 DATE: 10/10/73 BAROMETER: 24.68 WET BULB: 72 DRY BULB: 53  
RELATIVE HUMIDITY : 29.3% NOX HUMIDITY CORRECTION : .863

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.67      | 106.4     | 599.8      | 4.84       | 11.30      |            |            |            |
| COLD STABILIZED | 5.23      | 52.5      | 595.0      | 3.36       | 12.83      |            |            |            |
| HOT TRANSIENT   | 4.88      | 53.4      | 526.1      | 4.97       | 14.24      |            |            |            |
| 1975 COMPOSITE  | 5.44      | 64.0      | 576.9      | 4.12       | 12.82      |            |            |            |
| IDLE KEYMODE    | 3883      | 0.63      |            | 203        |            | 630        | 210        | 0.51       |
| LOW CR. KEYMODE | 4149      | 2.03      |            | 1491       |            | 720        | 220        | 1.65       |
| HI. CR. KEYMODE | 3499      | 0.84      |            | 2751       |            | 638        | 160        | 0.67       |
| 2500 RPM        |           |           |            |            |            |            | 120        | 1.75       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 210

1973 VOLK SEDA 97 2000 LBS TUNE UP EVALUATION  
4 CYL 1 BBL 4 SPEED 15,868 MILES HAS: EMC, EVC, NO PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 6.70 | -0100 | +05 | +02 | NA  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 6.56 | +0000 | +00 | +00 | NA  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0571 DATE: 10/08/73 BAROMETER: 24.42 WET BULB: 72 DRY BULB: 49  
RELATIVE HUMIDITY : 17.9% NOX HUMIDITY CORRECTION : .811

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.82 | 100.4 | 296.7 | 3.12 | 18.58 |     |     |      |
| COLD STABILIZED | 6.22 | 95.4  | 293.5 | 1.79 | 19.23 |     |     |      |
| HOT TRANSIENT   | 5.39 | 76.8  | 265.7 | 3.00 | 22.07 |     |     |      |
| 1975 COMPOSITE  | 6.33 | 91.3  | 286.5 | 2.40 | 19.80 |     |     |      |
| IDLE KEYMODE    | 5549 | 7.19  |       | 66   |       | 798 | 270 | 7.00 |
| LOW CR. KEYMODE | 3772 | 3.25  |       | 1371 |       | 743 | 230 | 3.20 |
| HI. CR. KEYMODE | 2861 | 0.75  |       | 3834 |       | 716 | 160 | 0.70 |
| 2500 RPM        |      |       |       |      |       |     | 290 | 5.10 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0716 DATE: 10/22/73 BAROMETER: 24.83 WET BULB: 78 DRY BULB: 51  
RELATIVE HUMIDITY : 13.3% NOX HUMIDITY CORRECTION : .802

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.04 | 89.3 | 291.1 | 2.50 | 19.77 |     |     |      |
| COLD STABILIZED | 5.30 | 94.7 | 283.5 | 1.52 | 19.83 |     |     |      |
| HOT TRANSIENT   | 3.73 | 66.9 | 237.3 | 2.05 | 25.15 |     |     |      |
| 1975 COMPOSITE  | 5.02 | 85.9 | 272.2 | 1.87 | 21.06 |     |     |      |
| IDLE KEYMODE    | 4604 | 6.56 |       | 69   |       | 554 | 350 | 5.40 |
| LOW CR. KEYMODE | 3350 | 3.21 |       | 1363 |       | 644 | 200 | 2.80 |
| HI. CR. KEYMODE | 2421 | 0.68 |       | 3576 |       | 300 | 130 | 0.80 |
| 2500 RPM        |      |      |       |      |       |     | 340 | 4.30 |

MANDATORY MAINTENANCE COST: LABOR= 24.00 PARTS= 10.55 TOTAL= 34.55

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 211

1970 PLYM FURY 318 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 63,652 MILES HAS: FMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 2.80        | +0060        | +10        | -10        | OK         | BAD         | OK           | NA           | YES          | NA          |
| AFTER MTCE | 3.51        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0573 DATE: 10/09/73 BAROMETER: 24.39 WET BULB: 74 DRY BULB: 53  
RELATIVE HUMIDITY : 25.5% NOX HUMIDITY CORRECTION : .855

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 33.83     | 152.1     | 516.2      | 4.03       | 10.33      |            |            |            |
| COLD STABILIZED | 26.66     | 110.6     | 490.3      | 3.33       | 11.90      |            |            |            |
| HOT TRANSIENT   | 29.43     | 117.0     | 444.2      | 3.55       | 12.34      |            |            |            |
| 1975 COMPOSITE  | 28.93     | 121.0     | 483.0      | 3.54       | 11.65      |            |            |            |
| IDLE KEYMODE    | 13683     | 3.58      |            | 185        |            | ****       | ****       | 2.80       |
| LOW CR. KEYMODE | 5991      | 3.23      |            | 1458       |            | 1146       | 600        | 2.90       |
| HI. CR. KEYMODE | 13655     | 7.52      |            | 460        |            | ****       | 1900       | 6.10       |
| 2500 RPM        |           |           |            |            |            |            | ****       | 1.50       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0627 DATE: 10/12/73 BAROMETER: 24.52 WET BULB: 70 DRY BULB: 49  
RELATIVE HUMIDITY : 21.5% NOX HUMIDITY CORRECTION : .820

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.05      | 162.0     | 617.6      | 2.56       | 9.96       |            |            |            |
| COLD STABILIZED | 4.42      | 94.0      | 587.7      | 2.34       | 11.89      |            |            |            |
| HOT TRANSIENT   | 4.27      | 105.4     | 513.1      | 2.71       | 12.86      |            |            |            |
| 1975 COMPOSITE  | 4.93      | 111.4     | 573.3      | 2.49       | 11.66      |            |            |            |
| IDLE KEYMODE    | 3338      | 3.51      |            | 144        |            | 324        | 225        | 3.60       |
| LOW CR. KEYMODE | 3708      | 5.02      |            | 648        |            | 418        | 270        | 5.00       |
| HI. CR. KEYMODE | 3315      | 3.78      |            | 1224       |            | 371        | 190        | 3.80       |
| 2500 RPM        |           |           |            |            |            |            | 170        | 3.60       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 212

1967 FORD MUST 289 3000 LBS TUNE UP EVALUATION  
8 CYL 2 BBL 3 SPEED 51,835 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO  | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|-------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 9.85  | -0250 | -02 | +02 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 10.58 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0572 DATE: 10/08/73 BAROMETER: 24.42 WET BULB: 72 DRY BULB: 48  
RELATIVE HUMIDITY : 15.2% NOX HUMIDITY CORRECTION : .799

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO   |
|-----------------|-------|-------|-------|------|-------|------|-----|-------|
| COLD TRANSIENT  | 16.37 | 173.1 | 302.0 | 0.85 | 14.23 |      |     |       |
| COLD STABILIZED | 16.63 | 181.1 | 292.7 | 0.52 | 14.14 |      |     |       |
| HOT TRANSIENT   | 12.00 | 130.7 | 296.0 | 1.25 | 16.51 |      |     |       |
| 1975 COMPOSITE  | 15.29 | 165.4 | 295.6 | 0.79 | 14.75 |      |     |       |
| IDLE KEYMODE    | 16921 | 10.35 |       | 17   |       | 1368 | 740 | ***** |
| LOW CR. KEYMODE | 4953  | 4.37  |       | 917  |       | 901  | 335 | 4.00  |
| HI. CR. KEYMODE | 4627  | 4.05  |       | 1250 |       | 873  | 320 | 3.80  |
| 2500 RPM        |       |       |       |      |       |      | 450 | 5.00  |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0720 DATE: 10/22/73 BAROMETER: 24.80 WET BULB: 77 DRY BULB: 53  
RELATIVE HUMIDITY : 19.8% NOX HUMIDITY CORRECTION : .834

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 13.12 | 149.2 | 294.0 | 1.34 | 15.62 |      |     |      |
| COLD STABILIZED | 13.76 | 161.4 | 294.5 | 0.81 | 15.05 |      |     |      |
| HOT TRANSIENT   | 8.34  | 100.0 | 295.7 | 1.69 | 18.58 |      |     |      |
| 1975 COMPOSITE  | 12.12 | 141.8 | 294.7 | 1.16 | 16.02 |      |     |      |
| IDLE KEYMODE    | 11647 | 10.58 |       | 26   |       | 1352 | 920 | 9.00 |
| LOW CR. KEYMODE | 4823  | 4.65  |       | 615  |       | 737  | 480 | 4.00 |
| HI. CR. KEYMODE | 4471  | 5.23  |       | 960  |       | 687  | 420 | 3.60 |
| 2500 RPM        |       |       |       |      |       |      | 560 | 4.60 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 214

1966 PONT CATIA 389 4000 LBS TUNE UP EVALUATION  
8 CYL 2 BBL AUTOMATIC 46,086 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.30        | -0060        | -03        | +00        | BAD        | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 3.87        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0575 DATE: 10/09/73 BAROMETER: 24.40 WET BULB: 71 DRY BULB: 53  
RELATIVE HUMIDITY : 31.8% NOX HUMIDITY CORRECTION : .872

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.70     | 167.1     | 490.3      | 2.83       | 11.32      |            |            |            |
| COLD STABILIZED | 7.20      | 103.3     | 477.5      | 1.69       | 13.44      |            |            |            |
| HOT TRANSIENT   | 6.21      | 86.7      | 444.4      | 3.43       | 14.84      |            |            |            |
| 1975 COMPOSITE  | 7.66      | 112.0     | 471.0      | 2.41       | 13.27      |            |            |            |
| IDLE KEYMODE    | 5654      | 3.64      |            | 58         |            | 895        | 400        | 3.20       |
| LOW CR. KEYMODE | 4099      | 1.42      |            | 1739       |            | 776        | 245        | 1.30       |
| HI. CR. KEYMODE | 3940      | 2.44      |            | 2018       |            | 735        | 210        | 2.10       |
| 2500 RPM        |           |           |            |            |            |            | 200        | 2.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0722 DATE: 10/22/73 BAROMETER: 24.80 WET BULB: 74 DRY BULB: 52  
RELATIVE HUMIDITY : 22.3% NOX HUMIDITY CORRECTION : .836

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 17.54     | 193.9     | 487.2      | 2.50       | 10.51      |            |            |            |
| COLD STABILIZED | 5.25      | 88.6      | 480.9      | 1.76       | 13.99      |            |            |            |
| HOT TRANSIENT   | 4.62      | 81.6      | 502.6      | 3.21       | 13.80      |            |            |            |
| 1975 COMPOSITE  | 7.65      | 108.7     | 488.2      | 2.32       | 13.04      |            |            |            |
| IDLE KEYMODE    | 11074     | 3.87      |            | 95         |            | 0          | 400        | 3.80       |
| LOW CR. KEYMODE | 2919      | 2.43      |            | 927        |            | 182        | 340        | 2.10       |
| HI. CR. KEYMODE | 2312      | 0.85      |            | 2179       |            | 308        | 190        | 0.90       |
| 2500 RPM        |           |           |            |            |            |            | 220        | 1.50       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 217

1972 CADI COUP 472      5000 LBS      HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC      17,251 MILES      HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 2.95        | +0020        | +02        | +02        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 3.69        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0588    DATE: 10/10/73    BAROMETER: 24.68    WET BULB: 72    DRY BULB: 53  
RELATIVE HUMIDITY : 29.3%    NOX HUMIDITY CORRECTION : .863

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.54      | 141.7     | 882.9      | 2.96       | 7.95       |            |            |            |
| COLD STABILIZED | 2.24      | 88.7      | 854.5      | 1.82       | 8.90       |            |            |            |
| HOT TRANSIENT   | 3.55      | 103.6     | 707.6      | 2.79       | 10.10      |            |            |            |
| 1975 COMPOSITE  | 3.08      | 103.9     | 819.7      | 2.33       | 8.97       |            |            |            |
| IDLE KEYMODE    | 2088      | 3.71      |            | 64         |            | 260        | 235        | 2.95       |
| LOW CR. KEYMODE | 1747      | 2.86      |            | 404        |            | 284        | 180        | 2.20       |
| HI. CR. KEYMODE | 1485      | 1.88      |            | 1402       |            | 291        | 145        | 1.60       |
| 2500 RPM        |           |           |            |            |            |            | 95         | 0.60       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0628    DATE: 10/12/73    BAROMETER: 24.53    WET BULB: 72    DRY BULB: 49  
RELATIVE HUMIDITY : 17.8%    NOX HUMIDITY CORRECTION : .810

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.54      | 140.2     | 1015.9     | 3.20       | 7.07       |            |            |            |
| COLD STABILIZED | 2.14      | 79.5      | 857.9      | 1.49       | 9.00       |            |            |            |
| HOT TRANSIENT   | 3.12      | 85.2      | 662.3      | 2.33       | 11.05      |            |            |            |
| 1975 COMPOSITE  | 3.54      | 93.8      | 836.7      | 2.08       | 8.95       |            |            |            |
| IDLE KEYMODE    | 2916      | 3.69      |            | 46         |            | 284        | 150        | 3.20       |
| LOW CR. KEYMODE | 737       | 1.76      |            | 277        |            | 193        | 49         | 1.50       |
| HI. CR. KEYMODE | 640       | 1.06      |            | 1301       |            | 211        | 40         | 3.40       |
| 2500 RPM        |           |           |            |            |            |            | 45         | 0.50       |

MANDATORY MAINTENANCE COST: LABOR= 33.60    PARTS= 25.17    TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 218

1973 CHEV NOVA 307 3500 LBS HIGH ALTITUDE RETROFIT.  
8 CYL 2 BBL AUTOMATIC 16,372 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 4.10        | -0040        | +01        | -04        | OK         | OK          | OK           | NA           | NO           | OK          |
| AFTER MTCE | 7.24        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | OK          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0589 DATE: 10/10/73 BAROMETER: 24.68 WET BULB: 76 DRY BULB: 54  
RELATIVE HUMIDITY : 24.3% NOX HUMIDITY CORRECTION : .855

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 9.51      | 132.8     | 491.6      | 1.51       | 12.19      |            |            |            |
| COLD STABILIZED | 4.95      | 87.6      | 550.9      | 1.41       | 12.65      |            |            |            |
| HOT TRANSIENT   | 5.65      | 97.4      | 462.5      | 1.74       | 14.06      |            |            |            |
| 1975 COMPOSITE  | 6.10      | 99.8      | 514.0      | 1.52       | 12.91      |            |            |            |
| IDLE KEYMODE    | 3522      | 5.00      |            | 47         |            | 388        | 175        | 4.10       |
| LOW CR. KEYMODE | 4111      | 3.23      |            | 755        |            | 532        | 210        | 2.50       |
| HI. CR. KEYMODE | 3453      | 3.98      |            | 700        |            | 446        | 160        | 3.30       |
| 2500 RPM        |           |           |            |            |            |            | 95         | 0.50       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0643 DATE: 10/15/73 BAROMETER: 24.95 WET BULB: 82 DRY BULB: 58  
RELATIVE HUMIDITY : 24.0% NOX HUMIDITY CORRECTION : .882

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.46     | 168.6     | 465.4      | 0.98       | 11.67      |            |            |            |
| COLD STABILIZED | 4.86      | 104.3     | 526.3      | 0.87       | 12.62      |            |            |            |
| HOT TRANSIENT   | 5.61      | 115.4     | 431.5      | 0.95       | 14.12      |            |            |            |
| 1975 COMPOSITE  | 6.24      | 120.8     | 487.3      | 0.91       | 12.78      |            |            |            |
| IDLE KEYMODE    | 4892      | 7.24      |            | 35         |            | 522        | 480        | 6.00       |
| LOW CR. KEYMODE | 5462      | 5.57      |            | 322        |            | 812        | 730        | 4.60       |
| HI. CR. KEYMODE | 4946      | 6.12      |            | 506        |            | 696        | 570        | 5.15       |
| 2500 RPM        |           |           |            |            |            |            | 140        | 0.70       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 220

1968 BUIC LESA 350 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 74,568 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 7.50        | +0210        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 0.19        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0605 DATE: 10/11/73 BAROMETER: 24.51 WET BULB: 71 DRY BULB: 53  
RELATIVE HUMIDITY : 31.7% NOX HUMIDITY CORRECTION : .871

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 14.94     | 237.5     | 456.7      | 1.69       | 10.15      |            |            |            |
| COLD STABILIZED | 7.87      | 201.1     | 476.0      | 0.84       | 10.90      |            |            |            |
| HOT TRANSIENT   | 7.33      | 170.3     | 400.8      | 1.79       | 12.88      |            |            |            |
| 1975 COMPOSITE  | 9.20      | 200.2     | 451.1      | 1.28       | 11.21      |            |            |            |
| IDLE KEYMODE    | 4709      | 7.92      |            | 69         |            | 525        | 270        | 7.40       |
| LOW CR. KEYMODE | 4392      | 4.74      |            | 700        |            | 644        | 290        | 4.40       |
| HI. CR. KEYMODE | 5218      | 10.13     |            | 223        |            | 743        | 320        | 8.60       |
| 2500 RPM        |           |           |            |            |            |            | 265        | 5.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0659 DATE: 10/16/73 BAROMETER: 24.86 WET BULB: 75 DRY BULB: 56  
RELATIVE HUMIDITY : 31.7% NOX HUMIDITY CORRECTION : .891

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.38     | 183.3     | 499.4      | 1.93       | 10.86      |            |            |            |
| COLD STABILIZED | 4.84      | 138.7     | 586.4      | 1.27       | 10.86      |            |            |            |
| HOT TRANSIENT   | 4.76      | 100.3     | 442.8      | 2.38       | 14.47      |            |            |            |
| 1975 COMPOSITE  | 5.98      | 137.4     | 528.4      | 1.71       | 11.67      |            |            |            |
| IDLE KEYMODE    | 2217      | 0.19      |            | 85         |            | 311        | 240        | 0.16       |
| LOW CR. KEYMODE | 4235      | 7.30      |            | 255        |            | 582        | 620        | 7.00       |
| HI. CR. KEYMODE | 3410      | 3.03      |            | 1624       |            | 489        | 380        | 3.10       |
| 2500 RPM        |           |           |            |            |            |            | 460        | 2.10       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 224

1968 CHEV MALI 250 3500 LBS. HIGH ALTITUDE RETROFIT  
6 CYL 1 BBL AUTOMATIC 43,307 MILES HAS: EMC, NO EVC, PCV

MAINTENANCE STATUS

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.90        | -0200        | -02        | -09        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 5.54        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

AS RECEIVED FROM OWNER

TEST NUMBER: C0617 DATE: 10/12/73 BAROMETER: 24.48 WET BULB: 75 DRY BULB: 55  
RELATIVE HUMIDITY : 29.1% NOX HUMIDITY CORRECTION : .879

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 20.39     | 212.6     | 459.2      | 2.46       | 10.38      |            |            |            |
| COLD STABILIZED | 5.18      | 114.7     | 464.8      | 1.63       | 13.46      |            |            |            |
| HOT TRANSIENT   | 5.50      | 89.3      | 407.8      | 2.86       | 15.75      |            |            |            |
| 1975 COMPOSITE  | 8.45      | 128.1     | 447.8      | 2.15       | 13.18      |            |            |            |
| IDLE KEYMODE    | 4438      | 6.41      |            | 76         |            | 474        | 290        | 5.00       |
| LOW CR. KEYMODE | 3959      | 4.03      |            | 652        |            | 413        | 210        | 3.00       |
| HI. CR. KEYMODE | 4281      | 4.90      |            | 802        |            | 471        | 200        | 4.30       |
| 2500 RPM        |           |           |            |            |            |            | 260        | 2.40       |

AFTER MANDATORY ENGINE MAINTENANCE

TEST NUMBER: C0678 DATE: 10/18/73 BAROMETER: 24.89 WET BULB: 70 DRY BULB: 52  
RELATIVE HUMIDITY : 30.4% NOX HUMIDITY CORRECTION : .858

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.22      | 120.1     | 458.2      | 3.00       | 13.30      |            |            |            |
| COLD STABILIZED | 3.59      | 66.1      | 463.1      | 1.85       | 15.40      |            |            |            |
| HOT TRANSIENT   | 3.64      | 46.3      | 393.6      | 3.26       | 18.64      |            |            |            |
| 1975 COMPOSITE  | 4.36      | 71.9      | 442.8      | 2.48       | 15.64      |            |            |            |
| IDLE KEYMODE    | 3657      | 5.54      |            | 74         |            | 359        | 190        | 4.80       |
| LOW CR. KEYMODE | 2822      | 0.38      |            | 1910       |            | 390        | 155        | 0.32       |
| HI. CR. KEYMODE | 3693      | 3.61      |            | 1414       |            | 474        | 215        | 0.90       |
| 2500 RPM        |           |           |            |            |            |            | 230        | 2.40       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 19.41 TOTAL= 42.21

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 225

1968 CHEV STAW 396 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 48,577 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.30        | -0010        | +04        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 3.61        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0665 DATE: 10/17/73 BAROMETER: 24.91 WET BULB: 69 DRY BULB: 50  
RELATIVE HUMIDITY : 26.3% NOX HUMIDITY CORRECTION : .835

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.95      | 212.1     | 532.6      | 1.42       | 9.96       |            |            |            |
| COLD STABILIZED | 5.53      | 143.9     | 550.1      | 0.88       | 11.22      |            |            |            |
| HOT TRANSIENT   | 4.92      | 139.3     | 441.5      | 1.20       | 13.18      |            |            |            |
| 1975 COMPOSITE  | 6.08      | 156.9     | 516.3      | 1.08       | 11.39      |            |            |            |
| IDLE KEYMODE    | 3519      | 3.61      |            | 72         |            | 344        | 345        | 3.60       |
| LOW CR. KEYMODE | 4280      | 7.07      |            | 229        |            | 546        | 610        | 7.20       |
| HI. CR. KEYMODE | 4000      | 6.37      |            | 466        |            | 508        | 480        | 6.40       |
| 2500 RPM        |           |           |            |            |            |            | 480        | 8.50       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0665 DATE: 10/17/73 BAROMETER: 24.91 WET BULB: 69 DRY BULB: 50  
RELATIVE HUMIDITY : 26.3% NOX HUMIDITY CORRECTION : .835

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.95      | 212.1     | 532.6      | 1.42       | 9.96       |            |            |            |
| COLD STABILIZED | 5.53      | 143.9     | 550.1      | 0.88       | 11.22      |            |            |            |
| HOT TRANSIENT   | 4.92      | 139.3     | 441.5      | 1.20       | 13.18      |            |            |            |
| 1975 COMPOSITE  | 6.08      | 156.9     | 516.3      | 1.08       | 11.39      |            |            |            |
| IDLE KEYMODE    | 3519      | 3.61      |            | 72         |            | 344        | 345        | 3.60       |
| LOW CR. KEYMODE | 4280      | 7.07      |            | 229        |            | 546        | 610        | 7.20       |
| HI. CR. KEYMODE | 4000      | 6.37      |            | 466        |            | 508        | 480        | 6.40       |
| 2500 RPM        |           |           |            |            |            |            | 480        | 8.50       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 226

1973 DODG DART 318 3000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 3,813 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.FMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 1.77        | -0030        | +00        | +00        | OK         | OK          | OK           | OK           | NO           | OK          |
| AFTER MTCE | 5.92        | +0000        | +00        | +00        | OK         | OK          | OK           | OK           | NO           | OK          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0633 DATE: 10/15/73 BAROMETER: 24.88 WET BULB: 70 DRY BULB: 49  
RELATIVE HUMIDITY : 21.2% NOX HUMIDITY CORRECTION : .817

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.56      | 51.0      | 525.2      | 4.84       | 14.37      |            |            |            |
| COLD STABILIZED | 3.43      | 43.6      | 520.6      | 2.35       | 14.84      |            |            |            |
| HOT TRANSIENT   | 3.94      | 51.4      | 464.7      | 4.32       | 15.96      |            |            |            |
| 1975 COMPOSITE  | 3.81      | 47.3      | 506.0      | 3.42       | 15.03      |            |            |            |
| IDLE KEYMODE    | 2910      | 1.88      |            | 136        |            | 341        | 370        | 2.00       |
| LOW CR. KEYMODE | 3465      | 2.09      |            | 2393       |            | 488        | 460        | 2.20       |
| HI. CR. KEYMODE | 3467      | 2.34      |            | 2696       |            | 472        | 430        | 2.50       |
| 2500 RPM        |           |           |            |            |            |            | 250        | 1.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0657 DATE: 10/16/73 BAROMETER: 24.86 WET BULB: 75 DRY BULB: 56  
RELATIVE HUMIDITY : 31.7% NOX HUMIDITY CORRECTION : .891

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.19      | 84.1      | 488.5      | 3.62       | 13.98      |            |            |            |
| COLD STABILIZED | 3.90      | 78.9      | 490.2      | 1.76       | 14.22      |            |            |            |
| HOT TRANSIENT   | 3.63      | 62.4      | 448.9      | 4.19       | 15.95      |            |            |            |
| 1975 COMPOSITE  | 4.10      | 75.4      | 478.4      | 2.82       | 14.61      |            |            |            |
| IDLE KEYMODE    | 4146      | 5.92      |            | 80         |            | 515        | 500        | 5.00       |
| LOW CR. KEYMODE | 3800      | 3.32      |            | 1598       |            | 587        | 480        | 3.00       |
| HI. CR. KEYMODE | 3522      | 3.35      |            | 1354       |            | 532        | 400        | 3.30       |
| 2500 RPM        |           |           |            |            |            |            | 280        | 2.30       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 227

1973 AMMO STAW 304      3000 LBS      HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL    AUTOMATIC      3,437 MILES      HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 0.63        | -0020        | +00        | +00        | OK         | OK          | OK           | NA           | YES          | OK          |
| AFTER MTCE | 0.81        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | OK          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0634    DATE: 10/15/73    BAROMETER: 24.88    WET BULB: 69    DRY BULB: 50  
RELATIVE HUMIDITY : 26.3%    NOX HUMIDITY CORRECTION : .835

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.36      | 124.1     | 582.2      | 2.32       | 11.17      |            |            |            |
| COLD STABILIZED | 3.29      | 43.3      | 575.6      | 1.65       | 13.62      |            |            |            |
| HOT TRANSIENT   | 3.52      | 36.3      | 473.5      | 2.24       | 16.44      |            |            |            |
| 1975 COMPOSITE  | 4.00      | 58.3      | 548.6      | 1.95       | 13.64      |            |            |            |
| IDLE KEYMODE    | 2377      | 0.81      |            | 190        |            | 903        | 265        | 0.65       |
| LOW CR. KEYMODE | 2887      | 0.49      |            | 867        |            | 384        | 345        | 0.40       |
| HI. CR. KEYMODE | 2618      | 0.59      |            | 1719       |            | 395        | 265        | 0.51       |
| 2500 RPM        |           |           |            |            |            |            | 75         | 0.26       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0634    DATE: 10/15/73    BAROMETER: 24.88    WET BULB: 69    DRY BULB: 50  
RELATIVE HUMIDITY : 26.3%    NOX HUMIDITY CORRECTION : .835

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.36      | 124.1     | 582.2      | 2.32       | 11.17      |            |            |            |
| COLD STABILIZED | 3.29      | 43.3      | 575.6      | 1.65       | 13.62      |            |            |            |
| HOT TRANSIENT   | 3.52      | 36.3      | 473.5      | 2.24       | 16.44      |            |            |            |
| 1975 COMPOSITE  | 4.00      | 58.3      | 548.6      | 1.95       | 13.64      |            |            |            |
| IDLE KEYMODE    | 2377      | 0.81      |            | 190        |            | 903        | 265        | 0.65       |
| LOW CR. KEYMODE | 2887      | 0.49      |            | 867        |            | 384        | 345        | 0.40       |
| HI. CR. KEYMODE | 2618      | 0.59      |            | 1719       |            | 395        | 265        | 0.51       |
| 2500 RPM        |           |           |            |            |            |            | 75         | 0.26       |

MANDATORY MAINTENANCE COST: LABOR= 24.00    PARTS= 9.55    TOTAL= 33.55

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 231

1973 PLYM DUST 318 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 7,751 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.70        | -0140        | +02        | +00        | OK         | OK          | OK           | NA           | NO           | OK          |
| AFTER MTCE | 2.38        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | OK          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0660 DATE: 10/17/73 BAROMETER: 24.86 WET BULB: 69 DRY BULB: 50  
RELATIVE HUMIDITY : 26.4% NOX HUMIDITY CORRECTION : .836

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.62      | 75.3      | 470.6      | 2.86       | 14.75      |            |            |            |
| COLD STABILIZED | 4.13      | 78.1      | 434.1      | 1.67       | 15.62      |            |            |            |
| HOT TRANSIENT   | 3.65      | 51.0      | 378.4      | 3.05       | 18.94      |            |            |            |
| 1975 COMPOSITE  | 4.10      | 70.0      | 426.3      | 2.30       | 16.22      |            |            |            |
| IDLE KEYMODE    | 4873      | 6.31      |            | 61         |            | 502        | 690        | 6.30       |
| LOW CR. KEYMODE | 3481      | 1.64      |            | 2489       |            | 464        | 560        | 1.80       |
| HI. CR. KEYMODE | 3458      | 3.13      |            | 1490       |            | 452        | 510        | 3.40       |
| 2500 RPM        |           |           |            |            |            |            | 290        | 2.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0955 DATE: 11/13/73 BAROMETER: 24.51 WET BULB: 74 DRY BULB: 52  
RELATIVE HUMIDITY : 22.6% NOX HUMIDITY CORRECTION : .839

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.46      | 103.7     | 516.4      | 2.68       | 12.73      |            |            |            |
| COLD STABILIZED | 3.78      | 63.6      | 542.8      | 2.02       | 13.60      |            |            |            |
| HOT TRANSIENT   | 3.91      | 85.3      | 451.1      | 2.31       | 14.91      |            |            |            |
| 1975 COMPOSITE  | 4.38      | 78.0      | 511.8      | 2.24       | 13.74      |            |            |            |
| IDLE KEYMODE    | 2783      | 2.38      |            | 137        |            | 283        | 225        | 2.15       |
| LOW CR. KEYMODE | 3540      | 3.05      |            | 1703       |            | 442        | 325        | 2.70       |
| HI. CR. KEYMODE | 3568      | 4.88      |            | 810        |            | 440        | 300        | 4.10       |
| 2500 RPM        |           |           |            |            |            |            | 165        | 2.50       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 232

1973 FORD MAVE 200 2500 LBS HIGH ALTITUDE RETROFIT  
6 CYL 1 BBL 3 SPEED 3,468 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 2.65 | +0015 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |
| AFTER MTCE | 3.05 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0647 DATE: 10/16/73 BAROMETER: 24.92 WET BULB: 71 DRY BULB: 50  
RELATIVE HUMIDITY : 22.1% NOX HUMIDITY CORRECTION : .825

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.36 | 79.7 | 314.6 | 1.11 | 19.23 |     |     |      |
| COLD STABILIZED | 3.67 | 74.7 | 330.5 | 0.50 | 19.38 |     |     |      |
| HOT TRANSIENT   | 3.68 | 54.9 | 289.0 | 1.09 | 23.02 |     |     |      |
| 1975 COMPOSITE  | 4.45 | 70.3 | 315.7 | 0.79 | 20.24 |     |     |      |
| IDLE KEYMODE    | 3438 | 3.05 |       | 58   |       | 381 | 360 | 3.00 |
| LOW CR. KEYMODE | 4074 | 2.05 |       | 1206 |       | 584 | 590 | 2.20 |
| HI. CR. KEYMODE | 4019 | 2.99 |       | 884  |       | 580 | 555 | 2.90 |
| 2500 RPM        |      |      |       |      |       |     | 360 | 2.20 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0647 DATE: 10/16/73 BAROMETER: 24.92 WET BULB: 71 DRY BULB: 50  
RELATIVE HUMIDITY : 22.1% NOX HUMIDITY CORRECTION : .825

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.36 | 79.7 | 314.6 | 1.11 | 19.23 |     |     |      |
| COLD STABILIZED | 3.67 | 74.7 | 330.5 | 0.50 | 19.38 |     |     |      |
| HOT TRANSIENT   | 3.68 | 54.9 | 289.0 | 1.09 | 23.02 |     |     |      |
| 1975 COMPOSITE  | 4.45 | 70.3 | 315.7 | 0.79 | 20.24 |     |     |      |
| IDLE KEYMODE    | 3438 | 3.05 |       | 58   |       | 381 | 360 | 3.00 |
| LOW CR. KEYMODE | 4074 | 2.05 |       | 1206 |       | 584 | 590 | 2.20 |
| HI. CR. KEYMODE | 4019 | 2.99 |       | 884  |       | 580 | 555 | 2.90 |
| 2500 RPM        |      |      |       |      |       |     | 360 | 2.20 |

MANDATORY MAINTENANCE COST: LABOR= 19.20 PARTS= 18.55 TOTAL= 37.75

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 233

1972 BUIC LESA 350 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 20,861 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.20        | +0080        | -08        | -01        | OK         | BAD         | OK           | OK           | NO           | NA          |
| AFTER MTCE | 0.78        | +0000        | +00        | +00        | OK         | OK          | OK           | OK           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0649 DATE: 10/16/73 BAROMETER: 24.92 WET BULB: 70 DRY BULB: 53  
RELATIVE HUMIDITY : 33.6% NOX HUMIDITY CORRECTION : .872

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.53      | 91.9      | 646.5      | 5.51       | 10.97      |            |            |            |
| COLD STABILIZED | 5.60      | 106.4     | 595.4      | 2.91       | 11.41      |            |            |            |
| HOT TRANSIENT   | 5.01      | 72.1      | 524.0      | 4.50       | 13.63      |            |            |            |
| 1975 COMPOSITE  | 5.63      | 93.9      | 586.3      | 3.90       | 11.85      |            |            |            |
| IDLE KEYMODE    | 3952      | 3.53      |            | 97         |            | 401        | 560        | 3.80       |
| LOW CR. KEYMODE | 3876      | 2.65      |            | 1565       |            | 437        | 510        | 2.70       |
| HI. CR. KEYMODE | 3357      | 1.49      |            | 2648       |            | 356        | 330        | 1.50       |
| 2500 RPM        |           |           |            |            |            |            | 270        | 3.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0705 DATE: 10/19/73 BAROMETER: 24.90 WET BULB: 73 DRY BULB: 52  
RELATIVE HUMIDITY : 24.1% NOX HUMIDITY CORRECTION : .841

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.68      | 65.6      | 617.4      | 7.05       | 12.06      |            |            |            |
| COLD STABILIZED | 4.50      | 33.1      | 607.0      | 5.16       | 13.23      |            |            |            |
| HOT TRANSIENT   | 4.00      | 27.8      | 537.4      | 7.29       | 15.00      |            |            |            |
| 1975 COMPOSITE  | 4.61      | 38.4      | 589.9      | 6.15       | 13.40      |            |            |            |
| IDLE KEYMODE    | 3630      | 0.78      |            | 191        |            | 441        | 320        | 0.70       |
| LOW CR. KEYMODE | 3511      | 0.63      |            | 3396       |            | 443        | 260        | 0.55       |
| HI. CR. KEYMODE | 3084      | 0.73      |            | 3995       |            | 387        | 185        | 0.55       |
| 2500 RPM        |           |           |            |            |            |            | 100        | 0.95       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 234

1968 MERC COUG 302 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 74,758 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 6.00        | +0050        | +11        | +03        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 6.80        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0661 DATE: 10/17/73 BAROMETER: 24.86 WET BULB: 69 DRY BULB: 50  
RELATIVE HUMIDITY : 26.4% NOX HUMIDITY CORRECTION : .836

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.16      | 66.5      | 421.1      | 4.63       | 16.43      |            |            |            |
| COLD STABILIZED | 7.38      | 59.3      | 408.0      | 2.96       | 16.97      |            |            |            |
| HOT TRANSIENT   | 5.25      | 39.5      | 357.7      | 4.94       | 20.40      |            |            |            |
| 1975 COMPOSITE  | 6.33      | 55.3      | 396.8      | 3.86       | 17.68      |            |            |            |
| IDLE KEYMODE    | 9075      | 6.62      |            | 50         |            | 1739       | ****       | 6.60       |
| LOW CR. KEYMODE | 4130      | 0.78      |            | 3041       |            | 514        | 600        | 0.90       |
| HI. CR. KEYMODE | 3590      | 0.86      |            | 4267       |            | 439        | 490        | 0.90       |
| 2500 RPM        |           |           |            |            |            |            | 370        | 1.10       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0717 DATE: 10/22/73 BAROMETER: 24.83 WET BULB: 80 DRY BULB: 51  
RELATIVE HUMIDITY : 10.7% NOX HUMIDITY CORRECTION : .793

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.21      | 92.1      | 466.0      | 2.60       | 14.20      |            |            |            |
| COLD STABILIZED | 3.64      | 70.2      | 491.4      | 2.14       | 14.52      |            |            |            |
| HOT TRANSIENT   | 3.30      | 48.8      | 393.8      | 2.63       | 18.52      |            |            |            |
| 1975 COMPOSITE  | 3.87      | 68.8      | 459.0      | 2.37       | 15.37      |            |            |            |
| IDLE KEYMODE    | 3785      | 6.80      |            | 72         |            | 405        | 340        | 5.00       |
| LOW CR. KEYMODE | 3248      | 1.23      |            | 1867       |            | 426        | 220        | 1.10       |
| HI. CR. KEYMODE | 2908      | 1.04      |            | 2542       |            | 377        | 190        | 0.90       |
| 2500 RPM        |           |           |            |            |            |            | 120        | 1.80       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 27.35 TOTAL= 48.95

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 237

1968 CADI FLEE 472 5000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 65,733 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 0.35        | +0090        | +00        | +00        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 0.77        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0677 DATE: 10/18/73 BAROMETER: 24.89 WET BULB: 73 DRY BULB: 53  
RELATIVE HUMIDITY : 27.0% NOX HUMIDITY CORRECTION : .855

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.35      | 142.9     | 661.3      | 1.72       | 9.86       |            |            |            |
| COLD STABILIZED | 4.57      | 115.3     | 664.2      | 1.17       | 10.36      |            |            |            |
| HOT TRANSIENT   | 3.77      | 106.2     | 502.9      | 1.40       | 13.06      |            |            |            |
| 1975 COMPOSITE  | 4.51      | 118.6     | 618.8      | 1.35       | 10.87      |            |            |            |
| IDLE KEYMODE    | 1039      | 0.48      |            | 101        |            | 272        | 40         | 0.35       |
| LOW CR. KEYMODE | 3267      | 2.86      |            | 682        |            | 540        | 190        | 2.00       |
| HI. CR. KEYMODE | 4824      | 10.03     |            | 141        |            | 700        | 280        | 2.00       |
| 2500 RPM        |           |           |            |            |            |            | 30         | 0.53       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0735 DATE: 10/23/73 BAROMETER: 24.50 WET BULB: 77 DRY BULB: 54  
RELATIVE HUMIDITY : 22.7% NOX HUMIDITY CORRECTION : .852

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.57      | 211.1     | 490.6      | 1.52       | 10.60      |            |            |            |
| COLD STABILIZED | 2.70      | 104.6     | 717.0      | 1.71       | 10.01      |            |            |            |
| HOT TRANSIENT   | 2.86      | 98.7      | 564.7      | 1.53       | 12.22      |            |            |            |
| 1975 COMPOSITE  | 3.34      | 125.2     | 627.4      | 1.62       | 10.67      |            |            |            |
| IDLE KEYMODE    | 5439      | 0.77      |            | 241        |            | 473        | 270        | 0.20       |
| LOW CR. KEYMODE | 3302      | 2.24      |            | 152        |            | 418        | 90         | 0.30       |
| HI. CR. KEYMODE | 3913      | 5.41      |            | 0          |            | 457        | 90         | 0.50       |
| 2500 RPM        |           |           |            |            |            |            | 260        | 0.10       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 238

1969 DODG CORO 318 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 51,016 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.40        | -0050        | +02        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 5.23        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0674 DATE: 10/18/73 BAROMETER: 24.89 WET BULB: 70 DRY BULB: .52  
RELATIVE HUMIDITY : 30.4% NOX HUMIDITY CORRECTION : .858

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.51     | 125.0     | 453.0      | 3.92       | 13.04      |            |            |            |
| COLD STABILIZED | 9.88      | 118.8     | 464.4      | 2.90       | 13.05      |            |            |            |
| HOT TRANSIENT   | 8.49      | 102.9     | 454.7      | 3.63       | 13.84      |            |            |            |
| 1975 COMPOSITE  | 9.63      | 115.7     | 459.3      | 3.32       | 13.26      |            |            |            |
| IDLE KEYMODE    | 7828      | 5.77      |            | 69         |            | 1478       | 1260       | 4.80       |
| LOW CR. KEYMODE | 5499      | 3.52      |            | 1417       |            | 782        | 540        | 3.00       |
| HI. CR. KEYMODE | 4954      | 4.22      |            | 1198       |            | 670        | 385        | 3.40       |
| 2500 RPM        |           |           |            |            |            |            | 400        | 4.30       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0736 DATE: 10/23/73 BAROMETER: 24.40 WET BULB: 76 DRY BULB: 47  
RELATIVE HUMIDITY : 6.9% NOX HUMIDITY CORRECTION : .769

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 15.18     | 253.4     | 343.1      | 0.50       | 11.28      |            |            |            |
| COLD STABILIZED | 10.13     | 192.5     | 376.0      | 0.58       | 12.53      |            |            |            |
| HOT TRANSIENT   | 8.85      | 192.2     | 340.5      | 0.59       | 13.28      |            |            |            |
| 1975 COMPOSITE  | 10.83     | 205.2     | 359.3      | 0.57       | 12.44      |            |            |            |
| IDLE KEYMODE    | 7882      | 5.23      |            | 0          |            | 1132       | 120        | 0.40       |
| LOW CR. KEYMODE | 8384      | 11.46     |            | 0          |            | 1296       | 110        | 0.90       |
| HI. CR. KEYMODE | 7126      | 10.54     |            | 0          |            | 1051       | 90         | 0.85       |
| 2500 RPM        |           |           |            |            |            |            | 90         | 0.40       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 242

1970 FORD MUST 302 3500 LBS COMBINATION RETROFIT  
8 CYL 2 BBL AUTOMATIC 16,785 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 0.30        | -0055        | +00        | -06        | BAD        | OK          | OK           | NA           | YES          | NA          |
| AFTER MTCE | 2.71        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0692 DATE: 10/19/73 BAROMETER: 24.85 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.2% NOX HUMIDITY CORRECTION : .830

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.09      | 80.4      | 472.0      | 4.23       | 14.35      |            |            |            |
| COLD STABILIZED | 5.31      | 44.7      | 446.9      | 2.76       | 16.68      |            |            |            |
| HOT TRANSIENT   | 5.48      | 38.6      | 419.4      | 4.18       | 17.90      |            |            |            |
| 1975 COMPOSITE  | 5.73      | 50.5      | 444.5      | 3.46       | 16.44      |            |            |            |
| IDLE KEYMODE    | 6276      | 0.38      |            | 100        |            | 1051       | 640        | 0.23       |
| LOW CR. KEYMODE | 4234      | 1.37      |            | 2658       |            | 611        | 310        | 1.00       |
| HI. CR. KEYMODE | 4001      | 1.59      |            | 3132       |            | 546        | 240        | 1.20       |
| 2500 RPM        |           |           |            |            |            |            | 190        | 1.30       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0757 DATE: 10/25/73 BAROMETER: 24.65 WET BULB: 77 DRY BULB: 50  
RELATIVE HUMIDITY : 12.5% NOX HUMIDITY CORRECTION : .797

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.07      | 93.5      | 538.6      | 3.60       | 12.69      |            |            |            |
| COLD STABILIZED | 3.82      | 80.5      | 548.7      | 1.56       | 12.96      |            |            |            |
| HOT TRANSIENT   | 6.88      | 48.4      | 454.7      | 3.78       | 16.12      |            |            |            |
| 1975 COMPOSITE  | 4.93      | 74.3      | 520.5      | 2.60       | 13.64      |            |            |            |
| IDLE KEYMODE    | 2546      | 2.71      |            | 85         |            | 295        | 150        | 2.20       |
| LOW CR. KEYMODE | 3272      | 2.27      |            | 1684       |            | 536        | 310        | 1.50       |
| HI. CR. KEYMODE | 3175      | 1.54      |            | 2666       |            | 488        | 260        | 1.40       |
| 2500 RPM        |           |           |            |            |            |            | 85         | 1.90       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 243

1969 PONT CATA 400 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 57,823 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.90        | -0110        | -10        | +07        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 1.54        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0695 DATE: 10/19/73 BAROMETER: 24.85 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.2% NOX HUMIDITY CORRECTION : .830

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.70      | 144.9     | 633.2      | 2.23       | 10.10      |            |            |            |
| COLD STABILIZED | 4.42      | 83.4      | 632.1      | 2.07       | 11.46      |            |            |            |
| HOT TRANSIENT   | 4.53      | 83.3      | 557.2      | 2.50       | 12.68      |            |            |            |
| 1975 COMPOSITE  | 4.93      | 96.2      | 611.6      | 2.22       | 11.44      |            |            |            |
| IDLE KEYMODE    | 3825      | 4.46      |            | 102        |            | 480        | 175        | 2.20       |
| LOW CR. KEYMODE | 3150      | 2.07      |            | 807        |            | 409        | 120        | 1.10       |
| HI. CR. KEYMODE | 2408      | 0.69      |            | 1652       |            | 339        | 60         | 0.30       |
| 2500 RPM        |           |           |            |            |            |            | 100        | 1.30       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0751 DATE: 10/24/73 BAROMETER: 24.50 WET BULB: 67 DRY BULB: 49  
RELATIVE HUMIDITY : 28.0% NOX HUMIDITY CORRECTION : .836

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.33      | 104.7     | 570.3      | 3.63       | 11.80      |            |            |            |
| COLD STABILIZED | 3.85      | 37.4      | 595.4      | 3.21       | 13.36      |            |            |            |
| HOT TRANSIENT   | 3.62      | 37.3      | 441.0      | 3.64       | 17.43      |            |            |            |
| 1975 COMPOSITE  | 4.30      | 51.5      | 547.3      | 3.42       | 13.88      |            |            |            |
| IDLE KEYMODE    | 4675      | 1.54      |            | 306        |            | 648        | 460        | 1.40       |
| LOW CR. KEYMODE | 3408      | 1.91      |            | 1630       |            | 447        | 280        | 1.70       |
| HI. CR. KEYMODE | 2928      | 1.03      |            | 2583       |            | 394        | 190        | 1.00       |
| 2500 RPM        |           |           |            |            |            |            | 240        | 2.80       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 245

1968 FORD FAIR 289 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL 3 SPEED 77,348 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.56        | -0115        | +06        | +00        | OK         | BAD         | OK           | OK           | YES          | NA          |
| AFTER MTCE | 10.14       | +0000        | +00        | +00        | OK         | OK          | OK           | OK           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0696 DATE: 10/19/73 BAROMETER: 24.86 WET BULB: 74 DRY BULB: 52  
RELATIVE HUMIDITY : 22.3% NOX HUMIDITY CORRECTION : .836

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 9.52      | 119.5     | 377.8      | 1.48       | 14.95      |            |            |            |
| COLD STABILIZED | 7.34      | 88.7      | 449.2      | 1.45       | 14.55      |            |            |            |
| HOT TRANSIENT   | 6.36      | 76.1      | 361.4      | 1.96       | 17.77      |            |            |            |
| 1975 COMPOSITE  | 7.53      | 91.7      | 409.9      | 1.60       | 15.42      |            |            |            |
| IDLE KEYMODE    | 5701      | 4.24      |            | 39         |            | 456        | 250        | 3.00       |
| LOW CR. KEYMODE | 3322      | 1.86      |            | 1620       |            | 513        | 160        | 1.20       |
| HI. CR. KEYMODE | 4059      | 3.02      |            | 1739       |            | 618        | 235        | 2.00       |
| 2500 RPM        |           |           |            |            |            |            | 115        | 0.70       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0750 DATE: 10/24/73 BAROMETER: 24.40 WET BULB: 77 DRY BULB: 50  
RELATIVE HUMIDITY : 12.7% NOX HUMIDITY CORRECTION : .799

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 13.04     | 172.3     | 426.3      | 0.76       | 12.06      |            |            |            |
| COLD STABILIZED | 7.43      | 102.6     | 485.0      | 0.78       | 13.30      |            |            |            |
| HOT TRANSIENT   | 6.75      | 85.9      | 402.8      | 1.18       | 15.93      |            |            |            |
| 1975 COMPOSITE  | 8.41      | 112.6     | 449.9      | 0.89       | 13.63      |            |            |            |
| IDLE KEYMODE    | 9354      | 10.14     |            | 39         |            | 756        | 520        | 7.40       |
| LOW CR. KEYMODE | 3747      | 2.75      |            | 466        |            | 464        | 240        | 2.20       |
| HI. CR. KEYMODE | 3594      | 4.01      |            | 604        |            | 453        | 240        | 3.20       |
| 2500 RPM        |           |           |            |            |            |            | 140        | 0.40       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 246

1968 OLDS DELT 455 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 114,750 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 6.80        | +0015        | +02        | -03        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 0.27        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0693 DATE: 10/19/73 BAROMETER: 24.86 WET BULB: 70 DRY BULB: 52  
RELATIVE HUMIDITY : 30.5% NOX HUMIDITY CORRECTION : .858

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.62      | 72.0      | 662.6      | 4.75       | 11.18      |            |            |            |
| COLD STABILIZED | 5.65      | 82.7      | 564.0      | 2.46       | 12.51      |            |            |            |
| HOT TRANSIENT   | 4.52      | 60.0      | 514.4      | 3.47       | 14.29      |            |            |            |
| 1975 COMPOSITE  | 5.54      | 74.1      | 570.9      | 3.22       | 12.64      |            |            |            |
| IDLE KEYMODE    | 6943      | 8.40      |            | 55         |            | 720        | 420        | 6.20       |
| LOW CR. KEYMODE | 3210      | 2.79      |            | 1228       |            | 405        | 160        | 2.10       |
| HI. CR. KEYMODE | 3099      | 1.86      |            | 2688       |            | 389        | 130        | 1.50       |
| 2500 RPM        |           |           |            |            |            |            | 240        | 3.10       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0777 DATE: 10/26/73 BAROMETER: 24.77 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.3% NOX HUMIDITY CORRECTION : .831

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 3.74      | 45.3      | 661.2      | 3.60       | 11.97      |            |            |            |
| COLD STABILIZED | 3.52      | 28.4      | 679.6      | 2.19       | 12.11      |            |            |            |
| HOT TRANSIENT   | 3.74      | 37.5      | 560.1      | 2.78       | 14.12      |            |            |            |
| 1975 COMPOSITE  | 3.63      | 34.5      | 642.6      | 2.65       | 12.58      |            |            |            |
| IDLE KEYMODE    | 2956      | 0.27      |            | 138        |            | 416        | 260        | 0.30       |
| LOW CR. KEYMODE | 2796      | 2.31      |            | 841        |            | 320        | 110        | 2.00       |
| HI. CR. KEYMODE | 2693      | 1.53      |            | 1925       |            | 297        | 140        | 0.50       |
| 2500 RPM        |           |           |            |            |            |            | 200        | 4.20       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 247

1968 FORD GALA 390 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 46,034 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.50        | +0010        | +09        | +00        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 0.11        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0694 DATE: 10/19/73 BAROMETER: 24.86 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.2% NOX HUMIDITY CORRECTION : .830

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.12      | 65.6      | 602.5      | 7.15       | 12.23      |            |            |            |
| COLD STABILIZED | 6.51      | 100.6     | 520.8      | 5.13       | 12.73      |            |            |            |
| HOT TRANSIENT   | 5.74      | 54.4      | 503.7      | 7.11       | 14.66      |            |            |            |
| 1975 COMPOSITE  | 6.43      | 80.4      | 533.2      | 6.10       | 13.10      |            |            |            |
| IDLE KEYMODE    | 4569      | 6.31      |            | 65         |            | 502        | 220        | 6.00       |
| LOW CR. KEYMODE | 3535      | 0.25      |            | 3298       |            | 552        | 180        | 0.20       |
| HI. CR. KEYMODE | 3180      | 0.25      |            | 4275       |            | 472        | 115        | 0.16       |
| 2500 RPM        |           |           |            |            |            |            | 126        | 0.60       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0768 DATE: 10/26/73 BAROMETER: 24.75 WET BULB: 70 DRY BULB: 49  
RELATIVE HUMIDITY : 21.3% NOX HUMIDITY CORRECTION : .818

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.66      | 68.8      | 814.4      | 7.04       | 9.47       |            |            |            |
| COLD STABILIZED | 3.80      | 8.4       | 658.3      | 5.84       | 13.03      |            |            |            |
| HOT TRANSIENT   | 3.75      | 22.8      | 695.3      | 7.65       | 11.98      |            |            |            |
| 1975 COMPOSITE  | 4.17      | 25.1      | 701.3      | 6.59       | 11.81      |            |            |            |
| IDLE KEYMODE    | 2448      | 0.11      |            | 88         |            | 368        | 175        | 0.09       |
| LOW CR. KEYMODE | 3147      | 0.42      |            | 2927       |            | 428        | 210        | 0.25       |
| HI. CR. KEYMODE | 2346      | 0.21      |            | 3192       |            | 318        | 100        | 0.19       |
| 2500 RPM        |           |           |            |            |            |            | 90         | 0.60       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 248

1969 PONT LEMA 350 4000 LBS COMBINATION RETROFIT  
8 CYL 2 BBL AUTOMATIC 27,997 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 0.38        | -0130        | -04        | +04        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 3.72        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0709 DATE: 10/22/73 BAROMETER: 24.77 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.3% NOX HUMIDITY CORRECTION : .831

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.34      | 131.8     | 567.4      | 4.51       | 11.12      |            |            |            |
| COLD STABILIZED | 4.75      | 35.0      | 582.2      | 4.83       | 13.65      |            |            |            |
| HOT TRANSIENT   | 5.08      | 59.7      | 494.0      | 5.11       | 14.75      |            |            |            |
| 1975 COMPOSITE  | 5.59      | 62.1      | 554.6      | 4.84       | 13.30      |            |            |            |
| IDLE KEYMODE    | 1739      | 0.42      |            | 91         |            | 251        | 50         | 0.13       |
| LOW CR. KEYMODE | 3765      | 1.65      |            | 2669       |            | 523        | 110        | 0.50       |
| HI. CR. KEYMODE | 4529      | 7.25      |            | 506        |            | 608        | 120        | 7.10       |
| 2500 RPM        |           |           |            |            |            |            | 45         | 0.23       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0758 DATE: 10/25/73 BAROMETER: 24.65 WET BULB: 77 DRY BULB: 50  
RELATIVE HUMIDITY : 12.5% NOX HUMIDITY CORRECTION : .797

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.96      | 153.6     | 524.4      | 4.12       | 11.26      |            |            |            |
| COLD STABILIZED | 5.37      | 75.6      | 571.9      | 4.66       | 12.58      |            |            |            |
| HOT TRANSIENT   | 4.64      | 67.7      | 460.1      | 5.19       | 15.32      |            |            |            |
| 1975 COMPOSITE  | 5.71      | 89.8      | 530.9      | 4.69       | 12.91      |            |            |            |
| IDLE KEYMODE    | 3511      | 3.72      |            | 85         |            | 337        | 200        | 2.90       |
| LOW CR. KEYMODE | 3680      | 1.98      |            | 2573       |            | 532        | 335        | 1.50       |
| HI. CR. KEYMODE | 3567      | 3.43      |            | 1631       |            | 494        | 290        | 2.90       |
| 2500 RPM        |           |           |            |            |            |            | 120        | 1.00       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 249

1971 PLYM FURY 383 4000 LBS SEA LEVEL RETROFIT  
8 CYL 4 BBL AUTOMATIC 30,259 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.40        | -0110        | +04        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 2.88        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0710 DATE: 10/22/73 BAROMETER: 24.77 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.3% NOX HUMIDITY CORRECTION : .831

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 11.95     | 199.3     | 548.2      | 2.18       | 9.90       |            |            |            |
| COLD STABILIZED | 6.75      | 157.5     | 559.3      | 1.13       | 10.75      |            |            |            |
| HOT TRANSIENT   | 5.61      | 126.0     | 480.8      | 2.10       | 12.79      |            |            |            |
| 1975 COMPOSITE  | 7.52      | 157.5     | 535.2      | 1.62       | 11.05      |            |            |            |
| IDLE KEYMODE    | 5950      | 5.93      |            | 44         |            | 535        | 365        | 4.60       |
| LOW CR. KEYMODE | 4087      | 4.29      |            | 657        |            | 459        | 275        | 3.40       |
| HI. CR. KEYMODE | 3766      | 4.63      |            | 1167       |            | 425        | 210        | 3.70       |
| 2500 RPM        |           |           |            |            |            |            | 195        | 3.90       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0779 DATE: 10/26/73 BAROMETER: 24.71 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.4% NOX HUMIDITY CORRECTION : .832

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 9.49      | 170.0     | 567.8      | 1.72       | 10.30      |            |            |            |
| COLD STABILIZED | 4.37      | 103.4     | 657.1      | 1.23       | 10.69      |            |            |            |
| HOT TRANSIENT   | 5.42      | 129.2     | 572.4      | 2.03       | 11.24      |            |            |            |
| 1975 COMPOSITE  | 5.73      | 124.5     | 614.9      | 1.56       | 10.75      |            |            |            |
| IDLE KEYMODE    | 3114      | 2.88      |            | 72         |            | 333        | 560        | 2.20       |
| LOW CR. KEYMODE | 3344      | 3.64      |            | 655        |            | 401        | 780        | 3.40       |
| HI. CR. KEYMODE | 3349      | 4.48      |            | 1079       |            | 385        | 700        | 4.00       |
| 2500 RPM        |           |           |            |            |            |            | 620        | 3.00       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.93 TOTAL= 44.73

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 250

1970 CHEV CAM 350      3500 LBS      HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL      4 SPEED      47,370 MILES      HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 6.40 | -0200 | +00 | +05 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 3.44 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0727    DATE: 10/23/73    BAROMETER: 24.68    WET BULB: 72    DRY BULB: 51  
RELATIVE HUMIDITY : 23.4%    NOX HUMIDITY CORRECTION : .834

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.13 | 101.8 | 476.3 | 3.49 | 13.26 |     |     |      |
| COLD STABILIZED | 6.36  | 87.5  | 553.1 | 2.06 | 12.53 |     |     |      |
| HOT TRANSIENT   | 5.52  | 60.7  | 428.8 | 3.46 | 16.44 |     |     |      |
| 1975 COMPOSITE  | 7.13  | 83.1  | 502.5 | 2.75 | 13.59 |     |     |      |
| IDLE KEYMODE    | 4402  | 6.56  |       | 51   |       | 387 | 255 | 5.40 |
| LOW CR. KEYMODE | 2790  | 1.07  |       | 2086 |       | 371 | 190 | 0.90 |
| HI. CR. KEYMODE | 2911  | 2.45  |       | 2200 |       | 414 | 220 | 2.20 |
| 2500 RPM        |       |       |       |      |       |     | 90  | 1.20 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0783    DATE: 10/26/73    BAROMETER: 24.30    WET BULB: 78    DRY BULB: 52  
RELATIVE HUMIDITY : 16.2%    NOX HUMIDITY CORRECTION : .820

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.96 | 106.6 | 479.9 | 3.16 | 13.24 |     |     |      |
| COLD STABILIZED | 4.81 | 62.4  | 582.9 | 2.14 | 12.79 |     |     |      |
| HOT TRANSIENT   | 4.32 | 41.4  | 465.8 | 4.02 | 16.35 |     |     |      |
| 1975 COMPOSITE  | 5.33 | 65.8  | 528.9 | 2.87 | 13.72 |     |     |      |
| IDLE KEYMODE    | 3289 | 3.44  |       | 65   |       | 319 | 240 | 3.00 |
| LOW CR. KEYMODE | 3079 | 0.89  |       | 2220 |       | 418 | 280 | 0.30 |
| HI. CR. KEYMODE | 3087 | 2.39  |       | 2431 |       | 403 | 220 | 2.20 |
| 2500 RPM        |      |       |       |      |       |     | 100 | 0.40 |

MANDATORY MAINTENANCE COST: LABOR= 33.60    PARTS= 23.51    TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 251

1973 CHEV IMPA 350 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 6,702 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 1.40        | +0020        | +02        | +02        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 4.38        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0724 DATE: 10/23/73 BAROMETER: 24.70 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.4% NOX HUMIDITY CORRECTION : .832

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 3.84      | 88.5      | 606.0      | 1.83       | 11.76      |            |            |            |
| COLD STABILIZED | 2.92      | 64.7      | 644.4      | 1.33       | 11.79      |            |            |            |
| HOT TRANSIENT   | 3.04      | 69.8      | 492.2      | 1.48       | 14.56      |            |            |            |
| 1975 COMPOSITE  | 3.15      | 71.1      | 594.1      | 1.47       | 12.44      |            |            |            |
| IDLE KEYMODE    | 1061      | 1.79      |            | 53         |            | 220        | 50         | 1.40       |
| LOW CR. KEYMODE | 2337      | 1.63      |            | 649        |            | 407        | 155        | 1.30       |
| HI. CR. KEYMODE | 2203      | 1.57      |            | 1356       |            | 380        | 125        | 1.25       |
| 2500 RPM        |           |           |            |            |            |            | 40         | 0.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0761 DATE: 10/25/73 BAROMETER: 24.61 WET BULB: 72 DRY BULB: 49  
RELATIVE HUMIDITY : 17.7% NOX HUMIDITY CORRECTION : .809

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.08      | 101.8     | 579.5      | 1.65       | 11.84      |            |            |            |
| COLD STABILIZED | 2.73      | 69.3      | 621.1      | 1.12       | 12.06      |            |            |            |
| HOT TRANSIENT   | 2.97      | 78.5      | 476.1      | 1.09       | 14.63      |            |            |            |
| 1975 COMPOSITE  | 3.08      | 78.6      | 572.2      | 1.22       | 12.63      |            |            |            |
| IDLE KEYMODE    | 2132      | 4.38      |            | 52         |            | 315        | 520        | 3.20       |
| LOW CR. KEYMODE | 3021      | 4.30      |            | 238        |            | 486        | 790        | 3.20       |
| HI. CR. KEYMODE | 4465      | 10.75     |            | 121        |            | 657        | 1180       | 2.00       |
| 2500 RPM        |           |           |            |            |            |            | 180        | 0.30       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 252

1973 OLDS OMEG 350 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL 3 SPEED 9,599 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 0.42        | +0110        | -02        | -02        | BAD        | OK          | OK           | NA           | NO           | BAD         |
| AFTER MTCE | 0.55        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | OK          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0726 DATE: 1C/23/73 BAROMETER: 24.68 WET BULB: 70 DRY BULB: 48  
RELATIVE HUMIDITY : 18.4% NOX HUMIDITY CORRECTION : .807

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.66      | 82.8      | 577.3      | 1.49       | 12.33      |            |            |            |
| COLD STABILIZED | 3.74      | 79.7      | 621.0      | 0.91       | 11.75      |            |            |            |
| HOT TRANSIENT   | 4.24      | 70.8      | 464.5      | 1.10       | 15.12      |            |            |            |
| 1975 COMPOSITE  | 4.07      | 77.9      | 568.4      | 1.08       | 12.66      |            |            |            |
| IDLE KEYMODE    | 1464      | 0.41      |            | 69         |            | 218        | 75         | 0.48       |
| LOW CR. KEYMODE | 2092      | 1.34      |            | 485        |            | 275        | 140        | 1.30       |
| HI. CR. KEYMODE | 2062      | 0.65      |            | 1665       |            | 280        | 120        | 0.58       |
| 2500 RPM        |           |           |            |            |            |            | 95         | 1.50       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0782 DATE: 1C/26/73 BAROMETER: 24.42 WET BULB: 71 DRY BULB: 50  
RELATIVE HUMIDITY : 22.7% NOX HUMIDITY CORRECTION : .829

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.12      | 69.1      | 600.5      | 1.59       | 12.33      |            |            |            |
| COLD STABILIZED | 2.93      | 58.4      | 632.4      | 1.07       | 12.14      |            |            |            |
| HOT TRANSIENT   | 3.00      | 52.6      | 501.8      | 1.38       | 14.99      |            |            |            |
| 1975 COMPOSITE  | 3.20      | 59.0      | 589.5      | 1.26       | 12.87      |            |            |            |
| IDLE KEYMODE    | 1669      | 0.55      |            | 75         |            | 227        | 90         | 0.20       |
| LOW CR. KEYMODE | 2405      | 2.10      |            | 443        |            | 293        | 160        | 0.50       |
| HI. CR. KEYMODE | 2015      | 0.56      |            | 1226       |            | 267        | 120        | 0.20       |
| 2500 RPM        |           |           |            |            |            |            | 80         | 0.40       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 254

1970 FORD MUST 302      3000 LBS      HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC      36,423 MILES      HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 4.30        | -0050        | +04        | +07        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 2.01        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0730    DATE: 10/23/73    BAROMETER: 24.64    WET BULB: 80    DRY BULB: 51  
RELATIVE HUMIDITY : 10.9%    NOX HUMIDITY CORRECTION : .794

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.21      | 98.4      | 479.9      | 3.00       | 13.55      |            |            |            |
| COLD STABILIZED | 4.88      | 90.7      | 494.9      | 1.44       | 13.64      |            |            |            |
| HOT TRANSIENT   | 7.75      | 77.2      | 411.5      | 2.69       | 15.98      |            |            |            |
| 1975 COMPOSITE  | 6.17      | 88.5      | 468.6      | 2.11       | 14.20      |            |            |            |
| IDLE KEYMODE    | 4870      | 3.69      |            | 112        |            | 581        | 300        | 3.40       |
| LOW CR. KEYMODE | 4829      | 3.55      |            | 768        |            | 700        | 380        | 3.20       |
| HI. CR. KEYMODE | 4716      | 3.05      |            | 1803       |            | 687        | 360        | 2.60       |
| 2500 RPM        |           |           |            |            |            |            | 340        | 3.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0766    DATE: 10/25/73    BAROMETER: 24.60    WET BULB: 75    DRY BULB: 54  
RELATIVE HUMIDITY : 26.2%    NOX HUMIDITY CORRECTION : .862

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.43      | 91.0      | 537.1      | 3.80       | 12.66      |            |            |            |
| COLD STABILIZED | 4.44      | 59.1      | 532.5      | 1.89       | 13.93      |            |            |            |
| HOT TRANSIENT   | 4.98      | 51.4      | 463.3      | 3.89       | 15.91      |            |            |            |
| 1975 COMPOSITE  | 5.21      | 63.7      | 514.3      | 2.84       | 14.12      |            |            |            |
| IDLE KEYMODE    | 3113      | 2.01      |            | 143        |            | 389        | 260        | 2.20       |
| LOW CR. KEYMODE | 3807      | 2.49      |            | 925        |            | 538        | 380        | 2.20       |
| HI. CR. KEYMODE | 3645      | 1.61      |            | 2456       |            | 506        | 320        | 1.40       |
| 2500 RPM        |           |           |            |            |            |            | 260        | 2.70       |

MANDATORY MAINTENANCE COST: LABOR= 21.60    PARTS= 22.75    TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 255

1972 CHEV NOVA 307 3000 LBS COMBINATION RETROFIT  
8 CYL 2 BBL AUTOMATIC 32,867 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 6.50 | -0040 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 0.28 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0723 DATE: 10/23/73 BAROMETER: 24.70 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.4% NOX HUMIDITY CORRECTION : .832

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.79 | 56.0 | 421.1 | 3.83 | 16.99 |     |     |      |
| COLD STABILIZED | 3.70 | 36.5 | 399.9 | 2.07 | 18.99 |     |     |      |
| HOT TRANSIENT   | 3.27 | 33.3 | 359.2 | 3.56 | 21.11 |     |     |      |
| 1975 COMPOSITE  | 3.81 | 39.7 | 393.0 | 2.85 | 19.05 |     |     |      |
| IDLE KEYMODE    | 5604 | 6.83 |       | 48   |       | 752 | 575 | 5.60 |
| LOW CR. KEYMODE | 3445 | 0.53 |       | 2926 |       | 513 | 290 | 0.43 |
| HI. CR. KEYMODE | 3162 | 1.82 |       | 2137 |       | 451 | 240 | 1.60 |
| 2500 RPM        |      |      |       |      |       |     | 190 | 1.40 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0791 DATE: 10/29/73 BAROMETER: 24.55 WET BULB: 82 DRY BULB: 52  
RELATIVE HUMIDITY : 10.7% NOX HUMIDITY CORRECTION : .798

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 6.00 | 87.5 | 508.1 | 3.11 | 13.40 |      |     |      |
| COLD STABILIZED | 3.77 | 14.1 | 482.6 | 2.33 | 17.24 |      |     |      |
| HOT TRANSIENT   | 4.14 | 52.3 | 381.7 | 2.71 | 18.67 |      |     |      |
| 1975 COMPOSITE  | 4.34 | 40.0 | 460.0 | 2.60 | 16.60 |      |     |      |
| IDLE KEYMODE    | 6973 | 0.28 |       | 34   |       | 1148 | 240 | 0.20 |
| LOW CR. KEYMODE | 3570 | 0.95 |       | 2481 |       | 494  | 290 | 0.50 |
| HI. CR. KEYMODE | 3440 | 2.82 |       | 1699 |       | 442  | 260 | 2.20 |
| 2500 RPM        |      |      |       |      |       |      | 130 | 1.00 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 261

1969 FORD MUST 200 3000 LBS HIGH ALTITUDE RETROFIT  
6 CYL 1 BBL 3 SPEED 68,680 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 2.75        | +0170        | -06        | +03        | BAD        | BAD         | OK           | NA           | YES          | NA          |
| AFTER MTCE | 7.80        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0753 DATE: 10/25/73 BAROMETER: 24.64 WET BULB: 69 DRY BULB: 49  
RELATIVE HUMIDITY : 23.4% NOX HUMIDITY CORRECTION : .825

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.51      | 76.7      | 401.3      | 1.75       | 16.52      |            |            |            |
| COLD STABILIZED | 4.54      | 98.0      | 427.0      | 0.97       | 14.96      |            |            |            |
| HOT TRANSIENT   | 4.25      | 69.2      | 340.3      | 1.37       | 19.25      |            |            |            |
| 1975 COMPOSITE  | 4.66      | 85.5      | 397.5      | 1.25       | 16.29      |            |            |            |
| IDLE KEYMODE    | 3490      | 2.94      |            | 104        |            | 294        | 190        | 3.10       |
| LOW CR. KEYMODE | 2306      | 0.92      |            | 994        |            | 248        | 130        | 0.90       |
| HI. CR. KEYMODE | 4141      | 6.45      |            | 433        |            | 500        | 320        | 5.30       |
| 2500 RPM        |           |           |            |            |            |            | 175        | 3.50       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0807 DATE: 10/30/73 BAROMETER: 24.56 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.5% NOX HUMIDITY CORRECTION : .833

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.17      | 95.9      | 388.1      | 1.64       | 15.95      |            |            |            |
| COLD STABILIZED | 6.04      | 142.2     | 378.5      | 0.78       | 14.34      |            |            |            |
| HOT TRANSIENT   | 5.68      | 89.7      | 339.4      | 1.49       | 17.87      |            |            |            |
| 1975 COMPOSITE  | 5.97      | 118.0     | 369.6      | 1.16       | 15.52      |            |            |            |
| IDLE KEYMODE    | 5419      | 7.80      |            | 74         |            | 426        | 240        | 6.80       |
| LOW CR. KEYMODE | 3349      | 1.27      |            | 1078       |            | 366        | 195        | 1.10       |
| HI. CR. KEYMODE | 3027      | 0.90      |            | 2300       |            | 360        | 180        | 0.80       |
| 2500 RPM        |           |           |            |            |            |            | 140        | 2.90       |

MANDATORY MAINTENANCE COST: LABOR= 19.20 PARTS= 18.55 TOTAL= 37.75

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 262

1973 CHEV STAW 454      4500 LBS      HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL   AUTOMATIC      17,416 MILES      HAS:   EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 1.70        | -0160        | +00        | +01        | OK         | OK          | OK           | NA           | YES          | OK          |
| AFTER MTCE | 3.23        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | OK          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0754    DATE: 10/25/73    BAROMETER: 24.64    WET BULB: 69    DRY BULB: 48  
RELATIVE HUMIDITY : 20.4%    NOX HUMIDITY CORRECTION : .812

|                    | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|--------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD    TRANSIENT  | 2.98      | 41.6      | 771.3      | 2.99       | 10.52      |            |            |            |
| COLD    STABILIZED | 2.40      | 37.7      | 786.3      | 1.38       | 10.44      |            |            |            |
| HOT     TRANSIENT  | 2.49      | 31.5      | 624.1      | 3.96       | 13.07      |            |            |            |
| 1975    COMPOSITE  | 2.55      | 36.8      | 738.2      | 2.43       | 11.08      |            |            |            |
| IDLE     KEYMODE   | 1613      | 2.14      |            | 41         |            | 251        | 100        | 1.70       |
| LOW CR. KEYMODE    | 1550      | 0.19      |            | 1408       |            | 264        | 85         | 0.20       |
| HI. CR. KEYMODE    | 945       | 0.32      |            | 2328       |            | 211        | 50         | 0.35       |
| 2500    RPM        |           |           |            |            |            |            | 75         | 0.19       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0808    DATE: 10/30/73    BAROMETER: 24.56    WET BULB: 70    DRY BULB: 50  
RELATIVE HUMIDITY : 24.5%    NOX HUMIDITY CORRECTION : .833

|                    | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|--------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD    TRANSIENT  | 5.41      | 57.2      | 796.3      | 3.93       | 9.86       |            |            |            |
| COLD    STABILIZED | 3.55      | 41.7      | 753.5      | 1.73       | 10.73      |            |            |            |
| HOT     TRANSIENT  | 3.87      | 38.1      | 652.9      | 3.58       | 12.28      |            |            |            |
| 1975    COMPOSITE  | 4.03      | 44.0      | 734.6      | 2.70       | 10.91      |            |            |            |
| IDLE     KEYMODE   | 2541      | 3.23      |            | 46         |            | 346        | 165        | 2.30       |
| LOW CR. KEYMODE    | 2042      | 0.21      |            | 862        |            | 294        | 95         | 0.18       |
| HI. CR. KEYMODE    | 1798      | 0.66      |            | 2131       |            | 266        | 60         | 0.60       |
| 2500    RPM        |           |           |            |            |            |            | 1300       | 0.25       |

MANDATORY MAINTENANCE COST: LABOR= 33.60    PARTS= 25.17    TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 265

1969 CHEV CAPR 327 4000 LBS COMBINATION RETROFIT  
8 CYL 4 BBL AUTOMATIC 30,213 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 7.60        | -0060        | +01        | +00        | OK         | OK          | OK           | NA           | YES          | NA          |
| AFTER MTCE | 3.75        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0770 DATE: 10/26/73 BAROMETER: 24.76 WET BULB: 72 DRY BULB: 50  
RELATIVE HUMIDITY : 20.4% NOX HUMIDITY CORRECTION : .821

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 9.73      | 167.3     | 544.8      | 4.69       | 10.62      |            |            |            |
| COLD STABILIZED | 5.18      | 78.1      | 515.4      | 4.28       | 13.61      |            |            |            |
| HOT TRANSIENT   | 4.19      | 41.6      | 463.1      | 6.61       | 16.44      |            |            |            |
| 1975 COMPOSITE  | 5.86      | 86.6      | 507.0      | 5.01       | 13.46      |            |            |            |
| IDLE KEYMODE    | 7236      | 8.11      |            | 39         |            | 629        | 420        | 7.00       |
| LOW CR. KEYMODE | 3398      | 1.27      |            | 2208       |            | 452        | 270        | 1.10       |
| HI. CR. KEYMODE | 2761      | 0.28      |            | 4137       |            | 361        | 160        | 0.25       |
| 2500 RPM        |           |           |            |            |            |            | 380        | 1.60       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0831 DATE: 11/01/73 BAROMETER: 24.24 WET BULB: 72 DRY BULB: 52  
RELATIVE HUMIDITY : 26.7% NOX HUMIDITY CORRECTION : .853

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.37      | 150.6     | 482.2      | 2.45       | 12.00      |            |            |            |
| COLD STABILIZED | 3.57      | 61.5      | 577.0      | 2.56       | 13.00      |            |            |            |
| HOT TRANSIENT   | 3.09      | 43.4      | 509.7      | 4.02       | 15.16      |            |            |            |
| 1975 COMPOSITE  | 4.24      | 75.1      | 538.5      | 2.94       | 13.30      |            |            |            |
| IDLE KEYMODE    | 2938      | 3.75      |            | 76         |            | 295        | 150        | 2.80       |
| LOW CR. KEYMODE | 2704      | 1.69      |            | 1479       |            | 390        | 210        | 1.40       |
| HI. CR. KEYMODE | 2118      | 0.57      |            | 2508       |            | 319        | 125        | 0.50       |
| 2500 RPM        |           |           |            |            |            |            | 115        | 1.60       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 267

1967 FORD FALC 200 2750 LBS SEA LEVEL RETROFIT  
6 CYL 1 BBL 3 SPEED 103,550 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 0.70        | +0000        | +09        | -01        | OK         | BAD         | NA           | NA           | NO           | NA          |
| AFTER MTCE | 5.61        | +0000        | +00        | +00        | OK         | OK          | NA           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0784 DATE: 10/26/73 BAROMETER: 24.80 WET BULB: 69 DRY BULB: 52  
RELATIVE HUMIDITY : 32.9% NOX HUMIDITY CORRECTION : .864

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 3.85      | 34.2      | 375.7      | 7.33       | 20.16      |            |            |            |
| COLD STABILIZED | 2.77      | 29.6      | 354.3      | 3.36       | 21.75      |            |            |            |
| HOT TRANSIENT   | 2.40      | 21.6      | 308.1      | 5.39       | 25.47      |            |            |            |
| 1975 COMPOSITE  | 2.89      | 28.3      | 345.9      | 4.76       | 22.29      |            |            |            |
| IDLE KEYMODE    | 2233      | 0.86      |            | 84         |            | 240        | 260        | 0.80       |
| LOW CR. KEYMODE | 3124      | 0.31      |            | 3872       |            | 464        | 340        | 0.10       |
| HI. CR. KEYMODE | 3074      | 0.71      |            | 3976       |            | 445        | 300        | 0.60       |
| 2500 RPM        |           |           |            |            |            |            | 150        | 0.30       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0830 DATE: 11/01/73 BAROMETER: 24.24 WET BULB: 72 DRY BULB: 52  
RELATIVE HUMIDITY : 26.7% NOX HUMIDITY CORRECTION : .853

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 4.12      | 44.5      | 328.0      | 5.48       | 21.67      |            |            |            |
| COLD STABILIZED | 3.63      | 55.4      | 324.1      | 3.44       | 21.08      |            |            |            |
| HOT TRANSIENT   | 3.12      | 36.8      | 295.3      | 5.11       | 24.54      |            |            |            |
| 1975 COMPOSITE  | 3.59      | 47.9      | 316.9      | 4.33       | 22.07      |            |            |            |
| IDLE KEYMODE    | 4139      | 5.61      |            | 65         |            | 387        | 235        | 4.20       |
| LOW CR. KEYMODE | 2632      | 0.14      |            | 5165       |            | 387        | 185        | 0.15       |
| HI. CR. KEYMODE | 2839      | 0.81      |            | 3992       |            | 443        | 230        | 0.72       |
| 2500 RPM        |           |           |            |            |            |            | 500        | 0.60       |

MANDATORY MAINTENANCE COST: LABOR= 19.20 PARTS= 18.55 TOTAL= 37.75

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 271

1967 PONT FIRE 326 3500 LBS SEA LEVEL RETROFIT  
8 CYL 4 BBL AUTOMATIC 59,028 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 6.23        | -0115        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 4.14        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0787 DATE: 10/29/73 BAROMETER: 24.59 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.5% NOX HUMIDITY CORRECTION : .833

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 12.18     | 175.2     | 445.9      | 2.20       | 11.72      |            |            |            |
| COLD STABILIZED | 9.58      | 157.4     | 405.1      | 1.34       | 13.04      |            |            |            |
| HOT TRANSIENT   | 10.32     | 143.2     | 329.7      | 1.69       | 15.16      |            |            |            |
| 1975 COMPOSITE  | 10.33     | 157.2     | 392.7      | 1.62       | 13.25      |            |            |            |
| IDLE KEYMODE    | 7305      | 6.91      |            | 49         |            | 910        | 800        | 5.10       |
| LOW CR. KEYMODE | 4055      | 2.17      |            | 1713       |            | 566        | 370        | 1.80       |
| HI. CR. KEYMODE | 4353      | 5.88      |            | 855        |            | 578        | 370        | 4.60       |
| 2500 RPM        |           |           |            |            |            |            | 480        | 2.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0829 DATE: 11/01/73 BAROMETER: 24.24 WET BULB: 73 DRY BULB: 52  
RELATIVE HUMIDITY : 24.7% NOX HUMIDITY CORRECTION : .847

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 11.35     | 188.9     | 404.6      | 1.39       | 12.08      |            |            |            |
| COLD STABILIZED | 7.32      | 136.1     | 399.4      | 1.05       | 13.99      |            |            |            |
| HOT TRANSIENT   | 7.45      | 157.9     | 326.1      | 1.35       | 14.90      |            |            |            |
| 1975 COMPOSITE  | 8.20      | 153.2     | 380.2      | 1.20       | 13.77      |            |            |            |
| IDLE KEYMODE    | 6247      | 4.14      |            | 52         |            | 763        | 550        | 3.00       |
| LOW CR. KEYMODE | 4148      | 3.58      |            | 1066       |            | 593        | 360        | 2.60       |
| HI. CR. KEYMODE | 4356      | 6.72      |            | 602        |            | 626        | 355        | 4.80       |
| 2500 RPM        |           |           |            |            |            |            | 330        | 2.30       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTCMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 272

1966 PLYM FURY 318 4000 LBS SEA LEVEL RETROFIT  
8 CYL 2 BBL AUTOMATIC 92,494 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 7.60        | +0100        | -05        | +00        | OK         | BAD         | OK           | NA           | YES          | NA          |
| AFTER MTCE | 5.31        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0788 DATE: 10/29/73 BAROMETER: 24.57 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.5% NOX HUMIDITY CORRECTION : .833

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 12.93     | 208.3     | 418.1      | 2.77       | 11.33      |            |            |            |
| COLD STABILIZED | 7.64      | 139.2     | 443.0      | 2.87       | 12.99      |            |            |            |
| HOT TRANSIENT   | 6.81      | 139.9     | 393.8      | 2.93       | 14.02      |            |            |            |
| 1975 COMPOSITE  | 8.52      | 153.8     | 424.1      | 2.87       | 12.86      |            |            |            |
| IDLE KEYMODE    | 6679      | 8.03      |            | 60         |            | 785        | 710        | 6.50       |
| LOW CR. KEYMODE | 4193      | 3.65      |            | 2152       |            | 536        | 330        | 3.00       |
| HI. CR. KEYMODE | 4513      | 3.52      |            | 2235       |            | 606        | 380        | 2.90       |
| 2500 RPM        |           |           |            |            |            |            | 165        | 5.70       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0856 DATE: 11/05/73 BAROMETER: 24.55 WET BULB: 72 DRY BULB: 53  
RELATIVE HUMIDITY : 29.4% NOX HUMIDITY CORRECTION : .864

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 9.33      | 154.6     | 489.3      | 3.20       | 11.69      |            |            |            |
| COLD STABILIZED | 6.32      | 110.7     | 446.1      | 2.97       | 13.91      |            |            |            |
| HOT TRANSIENT   | 5.32      | 98.5      | 422.4      | 3.33       | 14.99      |            |            |            |
| 1975 COMPOSITE  | 6.67      | 116.5     | 448.6      | 3.12       | 13.65      |            |            |            |
| IDLE KEYMODE    | 4548      | 5.31      |            | 92         |            | 422        | 280        | 4.00       |
| LOW CR. KEYMODE | 3667      | 3.30      |            | 1522       |            | 448        | 270        | 2.60       |
| HI. CR. KEYMODE | 2905      | 2.19      |            | 1698       |            | 307        | 145        | 1.80       |
| 2500 RPM        |           |           |            |            |            |            | 230        | 1.90       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 273

1970 CHEV CAPR 400 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 47,305 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 7.00        | -0090        | -04        | +00        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 4.00        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0789 DATE: 10/29/73 BAROMETER: 24.57 WET BULB: 78 DRY BULB: 51  
RELATIVE HUMIDITY : 13.6% NOX HUMIDITY CORRECTION : .805

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.33     | 208.1     | 600.5      | 2.12       | 9.27       |            |            |            |
| COLD STABILIZED | 5.27      | 109.1     | 603.4      | 2.02       | 11.25      |            |            |            |
| HOT TRANSIENT   | 5.11      | 92.9      | 448.6      | 2.09       | 14.58      |            |            |            |
| 1975 COMPOSITE  | 6.28      | 125.3     | 559.8      | 2.06       | 11.47      |            |            |            |
| IDLE KEYMODE    | 5203      | 7.60      |            | 63         |            | 475        | 250        | 5.60       |
| LOW CR. KEYMODE | 2814      | 1.63      |            | 1198       |            | 370        | 160        | 1.20       |
| HI. CR. KEYMODE | 3375      | 3.54      |            | 1385       |            | 404        | 190        | 2.90       |
| 2500 RPM        |           |           |            |            |            |            | 110        | 2.90       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0845 DATE: 11/02/73 BAROMETER: 24.64 WET BULB: 69 DRY BULB: 50  
RELATIVE HUMIDITY : 26.6% NOX HUMIDITY CORRECTION : .838

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 11.30     | 197.1     | 525.7      | 3.74       | 10.22      |            |            |            |
| COLD STABILIZED | 5.20      | 82.5      | 554.9      | 3.56       | 12.70      |            |            |            |
| HOT TRANSIENT   | 6.92      | 106.2     | 488.6      | 4.32       | 13.15      |            |            |            |
| 1975 COMPOSITE  | 6.96      | 113.1     | 530.4      | 3.81       | 12.20      |            |            |            |
| IDLE KEYMODE    | 3818      | 4.00      |            | 115        |            | 470        | 310        | 3.00       |
| LOW CR. KEYMODE | 3357      | 1.46      |            | 2645       |            | 439        | 250        | 1.10       |
| HI. CR. KEYMODE | 3424      | 3.18      |            | 2084       |            | 443        | 240        | 2.30       |
| 2500 RPM        |           |           |            |            |            |            | 75         | 1.70       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 274

1970 BUIC SKYL 350 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 34,266 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 0.51        | -0100        | +03        | -05        | OK         | OK          | OK           | OK           | NO           | NA          |
| AFTER MTCE | 0.67        | +0000        | +00        | +00        | OK         | OK          | OK           | OK           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0790 DATE: 10/29/73 BAROMETER: 24.57 WET BULB: 78 DRY BULB: 51  
RELATIVE HUMIDITY : 13.6% NOX HUMIDITY CORRECTION : .805

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 11.64     | 231.7     | 491.6      | 2.32       | 9.98       |            |            |            |
| COLD STABILIZED | 3.90      | 58.9      | 528.2      | 3.41       | 14.07      |            |            |            |
| HOT TRANSIENT   | 3.95      | 75.3      | 416.9      | 3.18       | 16.26      |            |            |            |
| 1975 COMPOSITE  | 5.53      | 99.6      | 489.7      | 3.12       | 13.42      |            |            |            |
| IDLE KEYMODE    | 2700      | 0.54      |            | 76         |            | 345        | 200        | 0.45       |
| LOW CR. KEYMODE | 2993      | 1.08      |            | 2587       |            | 389        | 215        | 1.10       |
| HI. CR. KEYMODE | 4026      | 8.73      |            | 314        |            | 493        | 280        | 6.80       |
| 2500 RPM        |           |           |            |            |            |            | 160        | 2.50       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0824 DATE: 10/31/73 BAROMETER: 24.44 WET BULB: 71 DRY BULB: 51  
RELATIVE HUMIDITY : 25.6% NOX HUMIDITY CORRECTION : .842

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.08      | 254.0     | 598.3      | 1.37       | 8.71       |            |            |            |
| COLD STABILIZED | 3.93      | 102.9     | 603.0      | 1.57       | 11.46      |            |            |            |
| HOT TRANSIENT   | 3.85      | 112.4     | 517.9      | 1.98       | 12.60      |            |            |            |
| 1975 COMPOSITE  | 4.77      | 137.1     | 578.4      | 1.64       | 11.01      |            |            |            |
| IDLE KEYMODE    | 1680      | 0.67      |            | 196        |            | 239        | 110        | 0.55       |
| LOW CR. KEYMODE | 2394      | 0.99      |            | 1520       |            | 308        | 125        | 0.70       |
| HI. CR. KEYMODE | 3384      | 8.32      |            | 207        |            | 401        | 190        | 7.10       |
| 2500 RPM        |           |           |            |            |            |            | 125        | 2.20       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 276

1966 PONT LEMA 326 3500 LBS SEA LEVEL RETROFIT  
8 CYL 4 BBL AUTOMATIC 73,426 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 7.40 | -0070 | -03 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 4.74 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0798 DATE: 10/30/73 BAROMETER: 24.70 WET BULB: 75 DRY BULB: 53  
RELATIVE HUMIDITY : 23.3% NOX HUMIDITY CORRECTION : .846

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 11.94 | 148.2 | 493.7 | 3.72 | 11.65 |     |     |      |
| COLD STABILIZED | 8.93  | 126.3 | 455.7 | 2.65 | 13.05 |     |     |      |
| HOT TRANSIENT   | 6.47  | 105.2 | 409.4 | 3.24 | 14.96 |     |     |      |
| 1975 COMPOSITE  | 8.88  | 125.1 | 450.8 | 3.04 | 13.19 |     |     |      |
| IDLE KEYMODE    | 8090  | 7.93  |       | 34   |       | 881 | 800 | 6.40 |
| LOW CR. KEYMODE | 3838  | 0.62  |       | 2668 |       | 481 | 360 | 0.52 |
| HI. CR. KEYMODE | 5241  | 10.14 |       | 228  |       | 637 | 430 | 7.80 |
| 2500 RPM        |       |       |       |      |       |     | 150 | 2.40 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0866 DATE: 11/05/73 BAROMETER: 24.67 WET BULB: 73 DRY BULB: 53  
RELATIVE HUMIDITY : 27.2% NOX HUMIDITY CORRECTION : .857

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.30 | 143.2 | 509.7 | 3.71 | 11.61 |     |     |      |
| COLD STABILIZED | 6.41  | 106.6 | 554.4 | 3.18 | 12.00 |     |     |      |
| HOT TRANSIENT   | 5.59  | 121.8 | 482.2 | 2.51 | 12.88 |     |     |      |
| 1975 COMPOSITE  | 7.00  | 118.5 | 525.0 | 3.10 | 12.15 |     |     |      |
| IDLE KEYMODE    | 4493  | 4.74  |       | 228  |       | 599 | 275 | 4.30 |
| LOW CR. KEYMODE | 3469  | 0.38  |       | 2594 |       | 459 | 180 | 0.20 |
| HI. CR. KEYMODE | 3738  | 3.64  |       | 1492 |       | 483 | 185 | 3.50 |
| 2500 RPM        |       |       |       |      |       |     | 175 | 1.90 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 280

1967 CHEV STAW 327 4000 LBS SEA LEVEL RETROFIT  
8 CYL 4 BBL 3 SPEED 96,491 MILES HAS: NO EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.90        | -0240        | -02        | +06        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 5.60        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0799 DATE: 10/30/73 BAROMETER: 24.70 WET BULB: 75 DRY BULB: 53  
RELATIVE HUMIDITY : 23.3% NOX HUMIDITY CORRECTION : .846

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 19.84     | 210.1     | 361.5      | 1.32       | 11.80      |            |            |            |
| COLD STABILIZED | 12.63     | 184.6     | 351.7      | 0.78       | 13.06      |            |            |            |
| HOT TRANSIENT   | 8.96      | 143.5     | 316.6      | 1.21       | 15.61      |            |            |            |
| 1975 COMPOSITE  | 13.12     | 178.5     | 344.0      | 1.01       | 13.37      |            |            |            |
| IDLE KEYMODE    | 7510      | 6.80      |            | 55         |            | 879        | 860        | 4.80       |
| LOW CR. KEYMODE | 5583      | 6.12      |            | 720        |            | 686        | 550        | 4.70       |
| HI. CR. KEYMODE | 4698      | 4.05      |            | 1375       |            | 597        | 400        | 3.30       |
| 2500 RPM        |           |           |            |            |            |            | 640        | 5.80       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0852 DATE: 11/02/73 BAROMETER: 24.73 WET BULB: 71 DRY BULB: 51  
RELATIVE HUMIDITY : 25.3% NOX HUMIDITY CORRECTION : .839

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 20.76     | 200.9     | 368.6      | 1.19       | 11.87      |            |            |            |
| COLD STABILIZED | 12.08     | 165.7     | 395.6      | 0.73       | 12.83      |            |            |            |
| HOT TRANSIENT   | 9.11      | 137.7     | 347.2      | 1.24       | 15.03      |            |            |            |
| 1975 COMPOSITE  | 13.07     | 165.3     | 376.5      | 0.97       | 13.15      |            |            |            |
| IDLE KEYMODE    | 6945      | 5.60      |            | 50         |            | 775        | 550        | 4.95       |
| LOW CR. KEYMODE | 5488      | 6.10      |            | 366        |            | 742        | 540        | 4.90       |
| HI. CR. KEYMODE | 4382      | 3.64      |            | 1234       |            | 567        | 410        | 3.70       |
| 2500 RPM        |           |           |            |            |            |            | 450        | 5.80       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 282

1968 FORD FALC 170 3000 LBS HIGH ALTITUDE RETROFIT  
6 CYL 1 BBL 3 SPEED 97,889 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 2.40 | +0020 | -04 | +01 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 3.13 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0813 DATE: 10/31/73 BAROMETER: 24.53 WET BULB: 68 DRY BULB: 48  
RELATIVE HUMIDITY : 22.5% NOX HUMIDITY CORRECTION : .818

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 19.60 | 197.9 | 263.6 | 0.28 | 13.99 |     |     |      |
| COLD STABILIZED | 5.43  | 89.9  | 379.4 | 0.82 | 16.56 |     |     |      |
| HOT TRANSIENT   | 3.84  | 52.6  | 311.8 | 1.75 | 21.90 |     |     |      |
| 1975 COMPOSITE  | 7.96  | 102.2 | 336.4 | 0.97 | 17.06 |     |     |      |
| IDLE KEYMODE    | 3021  | 3.04  |       | 37   |       | 325 | 130 | 2.30 |
| LOW CR. KEYMODE | 3936  | 1.72  |       | 1830 |       | 515 | 210 | 1.20 |
| HI. CR. KEYMODE | 2894  | 1.22  |       | 2169 |       | 379 | 140 | 1.00 |
| 2500 RPM        |       |       |       |      |       |     | 60  | 0.40 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0857 DATE: 11/05/73 BAROMETER: 24.55 WET BULB: 72 DRY BULB: 53  
RELATIVE HUMIDITY : 29.4% NOX HUMIDITY CORRECTION : .864

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.90 | 64.0 | 392.4 | 2.25 | 17.40 |     |     |      |
| COLD STABILIZED | 3.16 | 49.3 | 413.9 | 1.49 | 17.77 |     |     |      |
| HOT TRANSIENT   | 3.27 | 46.5 | 330.1 | 2.38 | 21.54 |     |     |      |
| 1975 COMPOSITE  | 3.76 | 51.6 | 386.1 | 1.89 | 18.59 |     |     |      |
| IDLE KEYMODE    | 2869 | 3.13 |       | 61   |       | 338 | 140 | 1.60 |
| LOW CR. KEYMODE | 1950 | 0.73 |       | 1039 |       | 332 | 70  | 0.45 |
| HI. CR. KEYMODE | 4136 | 4.74 |       | 992  |       | 581 | 250 | 3.20 |
| 2500 RPM        |      |      |       |      |       |     | 50  | 0.47 |

MANDATORY MAINTENANCE COST: LABOR= 19.20 PARTS= 18.55 TOTAL= 37.75

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 283

1968 PONT CATA 400 4500 LBS COMBINATION RETROFIT  
8 CYL 4 BBL AUTOMATIC 75,255 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO<br>---- | I.RPM<br>---- | TIM<br>---- | DWL<br>---- | PCV<br>---- | A.CL<br>---- | CHOKE<br>---- | A.PMP<br>---- | MISF.<br>---- | NOXC<br>---- |
|------------|--------------|---------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|--------------|
| FROM OWNER | 0.13         | -0190         | +01         | +01         | OK          | OK           | OK            | NA            | YES           | NA           |
| AFTER MTCE | 0.17         | +0000         | +00         | +00         | OK          | OK           | OK            | NA            | NO            | NA           |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0812 DATE: 10/31/73 BAROMETER: 24.53 WET BULB: 71 DRY BULB: 49  
RELATIVE HUMIDITY : 19.6% NOX HUMIDITY CORRECTION : .815

|                 | HC<br>---- | CO<br>---- | CO2<br>---- | NOX<br>---- | MPG<br>---- | LHC<br>---- | SHC<br>---- | SCO<br>---- |
|-----------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| COLD TRANSIENT  | 6.32       | 161.9      | 620.2       | 2.70        | 9.96        |             |             |             |
| COLD STABILIZED | 6.03       | 178.8      | 546.5       | 1.07        | 10.52       |             |             |             |
| HOT TRANSIENT   | 4.92       | 105.0      | 480.6       | 2.59        | 13.47       |             |             |             |
| 1975 COMPOSITE  | 5.78       | 154.8      | 543.6       | 1.83        | 11.06       |             |             |             |
| IDLE KEYMODE    | 2634       | 0.16       |             | 64          |             | 371         | 180         | 0.13        |
| LOW CR. KEYMODE | 3255       | 3.37       |             | 796         |             | 455         | 240         | 0.80        |
| HI. CR. KEYMODE | 3185       | 4.12       |             | 1295        |             | 454         | 220         | 3.40        |
| 2500 RPM        |            |            |             |             |             |             | 225         | 2.80        |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0858 DATE: 11/05/73 BAROMETER: 24.67 WET BULB: 72 DRY BULB: 56  
RELATIVE HUMIDITY : 38.7% NOX HUMIDITY CORRECTION : .912

|                 | HC<br>---- | CO<br>---- | CO2<br>---- | NOX<br>---- | MPG<br>---- | LHC<br>---- | SHC<br>---- | SCO<br>---- |
|-----------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| COLD TRANSIENT  | 6.58       | 189.3      | 572.2       | 1.80        | 10.00       |             |             |             |
| COLD STABILIZED | 6.07       | 190.0      | 513.9       | 0.83        | 10.71       |             |             |             |
| HOT TRANSIENT   | 5.68       | 172.6      | 455.6       | 1.29        | 11.96       |             |             |             |
| 1975 COMPOSITE  | 6.07       | 185.0      | 509.9       | 1.16        | 10.87       |             |             |             |
| IDLE KEYMODE    | 1211       | 0.17       |             | 103         |             | 181         | 60          | 0.12        |
| LOW CR. KEYMODE | 3537       | 5.26       |             | 370         |             | 451         | 230         | 3.60        |
| HI. CR. KEYMODE | 3617       | 6.42       |             | 544         |             | 438         | 210         | 4.30        |
| 2500 RPM        |            |            |             |             |             |             | 145         | 2.90        |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 284

1971 AMMO AMBA 401 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 31,837 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 7.60        | -0090        | +00        | +07        | OK         | OK          | OK           | NA           | YES          | NA          |
| AFTER MTCE | 0.42        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0814 DATE: 10/31/73 BAROMETER: 24.53 WET BULB: 70 DRY BULB: 45  
RELATIVE HUMIDITY : 10.0% NOX HUMIDITY CORRECTION : .775

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.77      | 74.9      | 559.6      | 6.12       | 12.63      |            |            |            |
| COLD STABILIZED | 6.74      | 120.7     | 491.0      | 2.83       | 12.69      |            |            |            |
| HOT TRANSIENT   | 7.36      | 74.8      | 449.2      | 5.31       | 15.09      |            |            |            |
| 1975 COMPOSITE  | 7.34      | 98.4      | 493.8      | 4.21       | 13.26      |            |            |            |
| IDLE KEYMODE    | 5701      | 8.25      |            | 49         |            | 459        | 270        | 6.30       |
| LOW CR. KEYMODE | 3584      | 1.34      |            | 2427       |            | 496        | 300        | 1.10       |
| HI. CR. KEYMODE | 3224      | 1.54      |            | 3779       |            | 417        | 230        | 1.20       |
| 2500 RPM        |           |           |            |            |            |            | 1510       | 1.00       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0894 DATE: 11/07/73 BAROMETER: 24.68 WET BULB: 76 DRY BULB: 54  
RELATIVE HUMIDITY : 24.3% NOX HUMIDITY CORRECTION : .855

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.03      | 57.9      | 586.3      | 5.24       | 12.79      |            |            |            |
| COLD STABILIZED | 4.42      | 40.5      | 590.0      | 3.54       | 13.34      |            |            |            |
| HOT TRANSIENT   | 4.87      | 51.7      | 541.2      | 5.36       | 13.96      |            |            |            |
| 1975 COMPOSITE  | 4.88      | 47.2      | 575.7      | 4.40       | 13.39      |            |            |            |
| IDLE KEYMODE    | 2830      | 0.42      |            | 201        |            | 295        | 100        | 0.35       |
| LOW CR. KEYMODE | 3890      | 1.70      |            | 2386       |            | 466        | 150        | 0.90       |
| HI. CR. KEYMODE | 3886      | 2.71      |            | 2678       |            | 448        | 130        | 1.10       |
| 2500 RPM        |           |           |            |            |            |            | 80         | 0.90       |

MANDATORY MAINTENANCE COST: LABOR= 24.00 PARTS= 9.55 TOTAL= 33.55

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 285

1968 PLYM BARR 318 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 60,568 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 2.80        | +0120        | +00        | -02        | OK         | BAD         | OK           | NA           | YES          | NA          |
| AFTER MTCE | 5.55        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0815 DATE: 10/31/73 BAROMETER: 24.53 WET BULB: 74 DRY BULB: 50  
RELATIVE HUMIDITY : 17.1% NOX HUMIDITY CORRECTION : .812

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.94      | 115.6     | 467.2      | 4.30       | 13.28      |            |            |            |
| COLD STABILIZED | 4.31      | 49.7      | 480.6      | 5.46       | 15.56      |            |            |            |
| HOT TRANSIENT   | 4.00      | 56.0      | 431.7      | 5.93       | 16.73      |            |            |            |
| 1975 COMPOSITE  | 4.78      | 65.2      | 464.2      | 5.35       | 15.31      |            |            |            |
| IDLE KEYMODE    | 4076      | 3.00      |            | 73         |            | 368        | 270        | 2.70       |
| LOW CR. KEYMODE | 3060      | 0.60      |            | 3951       |            | 395        | 260        | 0.50       |
| HI. CR. KEYMODE | 3018      | 1.95      |            | 2666       |            | 366        | 225        | 1.50       |
| 2500 RPM        |           |           |            |            |            |            | 330        | 1.20       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0863 DATE: 11/05/73 BAROMETER: 24.73 WET BULB: 70 DRY BULB: 53  
RELATIVE HUMIDITY : 33.8% NOX HUMIDITY CORRECTION : .874

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.69      | 133.4     | 470.8      | 3.00       | 12.64      |            |            |            |
| COLD STABILIZED | 3.94      | 59.2      | 479.9      | 3.36       | 15.21      |            |            |            |
| HOT TRANSIENT   | 3.61      | 59.1      | 427.4      | 3.79       | 16.75      |            |            |            |
| 1975 COMPOSITE  | 4.64      | 74.7      | 463.4      | 3.40       | 14.96      |            |            |            |
| IDLE KEYMODE    | 3809      | 5.55      |            | 78         |            | 435        | 215        | 5.00       |
| LOW CR. KEYMODE | 3354      | 1.85      |            | 1984       |            | 435        | 210        | 1.80       |
| HI. CR. KEYMODE | 3198      | 3.13      |            | 1398       |            | 375        | 170        | 2.85       |
| 2500 RPM        |           |           |            |            |            |            | 140        | 2.00       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 286

1968 DODG CHAR 318 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 65,609 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 4.40 | +0000 | +00 | -02 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 2.82 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0816 DATE: 10/31/73 BAROMETER: 24.49 WET BULB: 74 DRY BULB: 50  
RELATIVE HUMIDITY : 17.2% NOX HUMIDITY CORRECTION : .813

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.95 | 170.2 | 410.3 | 1.24 | 12.61 |     |     |      |
| COLD STABILIZED | 6.31 | 99.4  | 458.8 | 2.29 | 14.03 |     |     |      |
| HOT TRANSIENT   | 5.72 | 96.6  | 411.1 | 1.82 | 15.33 |     |     |      |
| 1975 COMPOSITE  | 6.70 | 113.5 | 435.4 | 1.94 | 14.03 |     |     |      |
| IDLE KEYMODE    | 4096 | 5.10  |       | 81   |       | 439 | 270 | 3.10 |
| LOW CR. KEYMODE | 4482 | 2.14  |       | 1617 |       | 601 | 420 | 1.90 |
| HI. CR. KEYMODE | 4187 | 4.52  |       | 648  |       | 475 | 280 | 3.80 |
| 2500 RPM        |      |       |       |      |       |     | 250 | 3.20 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0860 DATE: 11/05/73 BAROMETER: 24.76 WET BULB: 72 DRY BULB: 56  
RELATIVE HUMIDITY : 38.6% NOX HUMIDITY CORRECTION : .911

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 43.98 | 295.6 | 368.6 | 1.30 | 9.16  |     |     |      |
| COLD STABILIZED | 7.53  | 100.7 | 438.2 | 2.71 | 14.36 |     |     |      |
| HOT TRANSIENT   | 6.79  | 95.3  | 374.8 | 2.40 | 16.31 |     |     |      |
| 1975 COMPOSITE  | 14.95 | 140.0 | 406.0 | 2.33 | 13.23 |     |     |      |
| IDLE KEYMODE    | 3862  | 2.82  |       | 78   |       | 451 | 210 | 1.70 |
| LOW CR. KEYMODE | 4772  | 1.56  |       | 2388 |       | 657 | 340 | 1.10 |
| HI. CR. KEYMODE | 4638  | 4.74  |       | 968  |       | 568 | 270 | 2.80 |
| 2500 RPM        |       |       |       |      |       |     | 240 | 2.30 |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 287

1971 BUIC LESA 455 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 17,998 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 5.10 | +0020 | -10 | +00 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 3.92 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0817 DATE: 10/31/73 BAROMETER: 24.47 WET BULB: 74 DRY BULB: 50  
RELATIVE HUMIDITY : 17.2% NOX HUMIDITY CORRECTION : .813

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.58 | 143.0 | 775.5 | 3.61 | 8.72  |     |     |      |
| COLD STABILIZED | 6.05 | 151.2 | 763.9 | 1.56 | 8.73  |     |     |      |
| HOT TRANSIENT   | 5.09 | 102.2 | 665.8 | 3.42 | 10.57 |     |     |      |
| 1975 COMPOSITE  | 5.89 | 135.9 | 739.1 | 2.50 | 9.17  |     |     |      |
| IDLE KEYMODE    | 3900 | 5.56  |       | 71   |       | 406 | 275 | 4.50 |
| LOW CR. KEYMODE | 2971 | 0.92  |       | 1454 |       | 331 | 180 | 0.75 |
| HI. CR. KEYMODE | 2904 | 2.53  |       | 1798 |       | 328 | 155 | 2.20 |
| 2500 RPM        |      |       |       |      |       |     | 70  | 2.25 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0865 DATE: 11/05/73 BAROMETER: 24.70 WET BULB: 71 DRY BULB: 53  
RELATIVE HUMIDITY : 31.5% NOX HUMIDITY CORRECTION : .869

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.03 | 125.1 | 839.4 | 4.32 | 8.42  |     |     |      |
| COLD STABILIZED | 5.04 | 116.9 | 794.5 | 1.69 | 8.96  |     |     |      |
| HOT TRANSIENT   | 4.64 | 94.6  | 642.7 | 3.35 | 11.05 |     |     |      |
| 1975 COMPOSITE  | 5.35 | 112.4 | 761.8 | 2.70 | 9.32  |     |     |      |
| IDLE KEYMODE    | 3498 | 3.92  |       | 76   |       | 356 | 160 | 3.50 |
| LOW CR. KEYMODE | 3396 | 3.38  |       | 618  |       | 381 | 165 | 3.00 |
| HI. CR. KEYMODE | 2628 | 1.81  |       | 1380 |       | 266 | 85  | 1.50 |
| 2500 RPM        |      |       |       |      |       |     | 65  | 2.40 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 288

1968 PONT TEMP 350 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 40,178 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 5.40 | -0130 | +03 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 2.92 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0818 DATE: 10/31/73 BAROMETER: 24.47 WET BULB: 69 DRY BULB: 49  
RELATIVE HUMIDITY : 23.6% NOX HUMIDITY CORRECTION : .826

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.68 | 162.6 | 587.9 | 2.92 | 10.26 |     |     |      |
| COLD STABILIZED | 4.47 | 66.3  | 611.1 | 2.83 | 12.21 |     |     |      |
| HOT TRANSIENT   | 4.33 | 74.9  | 521.5 | 3.75 | 13.64 |     |     |      |
| 1975 COMPOSITE  | 5.10 | 88.8  | 581.4 | 3.10 | 12.08 |     |     |      |
| IDLE KEYMODE    | 4165 | 6.40  |       | 70   |       | 520 | 360 | 4.90 |
| LOW CR. KEYMODE | 3341 | 1.33  |       | 1590 |       | 419 | 250 | 1.10 |
| HI. CR. KEYMODE | 3352 | 2.71  |       | 1586 |       | 412 | 225 | 2.30 |
| 2500 RPM        |      |       |       |      |       |     | 145 | 1.00 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0836 DATE: 11/01/73 BAROMETER: 24.20 WET BULB: 75 DRY BULB: 51  
RELATIVE HUMIDITY : 18.5% NOX HUMIDITY CORRECTION : .823

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.65 | 177.3 | 604.7 | 3.11 | 9.71  |     |     |      |
| COLD STABILIZED | 4.19  | 67.2  | 615.7 | 2.52 | 12.12 |     |     |      |
| HOT TRANSIENT   | 3.84  | 66.9  | 521.0 | 3.72 | 13.95 |     |     |      |
| 1975 COMPOSITE  | 5.44  | 90.2  | 587.1 | 2.97 | 11.94 |     |     |      |
| IDLE KEYMODE    | 3127  | 2.92  |       | 161  |       | 348 | 220 | 2.35 |
| LOW CR. KEYMODE | 3088  | 1.36  |       | 1652 |       | 355 | 210 | 1.40 |
| HI. CR. KEYMODE | 3080  | 2.39  |       | 1827 |       | 360 | 190 | 2.15 |
| 2500 RPM        |       |       |       |      |       |     | 120 | 1.90 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 289

1969 VOLK SEDA 91 2000 LBS TUNE UP EVALUATION  
4 CYL 1 BBL 4 SPEED 63,512 MILES HAS: EMC, NO EVC, NO PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 6.20        | +0100        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 5.12        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0826 DATE: 11/01/73 BAROMETER: 24.23 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.9% NOX HUMIDITY CORRECTION : .836

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.46      | 98.5      | 258.7      | 1.73       | 20.52      |            |            |            |
| COLD STABILIZED | 6.09      | 84.3      | 259.1      | 1.38       | 21.67      |            |            |            |
| HOT TRANSIENT   | 4.35      | 71.4      | 213.8      | 1.69       | 26.21      |            |            |            |
| 1975 COMPOSITE  | 5.68      | 83.7      | 246.4      | 1.54       | 22.50      |            |            |            |
| IDLE KEYMODE    | 4124      | 6.44      |            | 68         |            | 312        | 210        | 4.90       |
| LOW CR. KEYMODE | 3156      | 3.90      |            | 840        |            | 374        | 220        | 3.10       |
| HI. CR. KEYMODE | 2844      | 2.28      |            | 2428       |            | 377        | 215        | 1.90       |
| 2500 RPM        |           |           |            |            |            |            | 300        | 3.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0970 DATE: 11/14/73 BAROMETER: 24.43 WET BULB: 76 DRY BULB: 53  
RELATIVE HUMIDITY : 21.8% NOX HUMIDITY CORRECTION : .843

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.36      | 92.7      | 244.1      | 1.44       | 21.72      |            |            |            |
| COLD STABILIZED | 5.23      | 75.4      | 274.5      | 1.22       | 21.75      |            |            |            |
| HOT TRANSIENT   | 5.03      | 70.3      | 225.3      | 1.44       | 25.33      |            |            |            |
| 1975 COMPOSITE  | 5.41      | 77.6      | 254.5      | 1.33       | 22.64      |            |            |            |
| IDLE KEYMODE    | 3966      | 5.12      |            | 66         |            | 284        | 215        | 5.00       |
| LOW CR. KEYMODE | 2870      | 3.08      |            | 878        |            | 297        | 185        | 2.75       |
| HI. CR. KEYMODE | 3057      | 5.92      |            | 963        |            | 349        | 200        | 5.10       |
| 2500 RPM        |           |           |            |            |            |            | 190        | 4.00       |

MANDATORY MAINTENANCE COST: LABOR= 24.00 PARTS= 10.55 TOTAL= 34.55

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 291

1969 PLYM FURY 318 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 52,667 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 7.80 | -0140 | +08 | +00 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 1.57 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0839 DATE: 11/02/73 BAROMETER: 24.57 WET BULB: 75 DRY BULB: 52  
RELATIVE HUMIDITY : 20.8% NOX HUMIDITY CORRECTION : .833

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.53 | 141.9 | 455.7 | 2.28 | 12.68 |     |     |      |
| COLD STABILIZED | 5.98 | 118.0 | 459.0 | 2.05 | 13.42 |     |     |      |
| HOT TRANSIENT   | 5.42 | 94.4  | 421.8 | 2.72 | 15.16 |     |     |      |
| 1975 COMPOSITE  | 6.15 | 116.5 | 448.0 | 2.29 | 13.69 |     |     |      |
| IDLE KEYMODE    | 3590 | 1.44  |       | 97   |       | 443 | 580 | 7.00 |
| LOW CR. KEYMODE | 3475 | 2.15  |       | 1281 |       | 378 | 250 | 1.70 |
| HI. CR. KEYMODE | 3360 | 3.04  |       | 1786 |       | 381 | 230 | 2.50 |
| 2500 RPM        |      |       |       |      |       |     | 230 | 3.00 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0892 DATE: 11/07/73 BAROMETER: 24.68 WET BULB: 74 DRY BULB: 52  
RELATIVE HUMIDITY : 22.4% NOX HUMIDITY CORRECTION : .837

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC  | SHC  | SCO  |
|-----------------|-------|-------|-------|------|-------|------|------|------|
| COLD TRANSIENT  | 7.89  | 153.3 | 473.4 | 2.79 | 12.05 |      |      |      |
| COLD STABILIZED | 6.59  | 102.0 | 468.9 | 2.30 | 13.70 |      |      |      |
| HOT TRANSIENT   | 27.63 | 109.3 | 440.3 | 2.77 | 12.73 |      |      |      |
| 1975 COMPOSITE  | 12.70 | 114.8 | 461.9 | 2.53 | 13.05 |      |      |      |
| IDLE KEYMODE    | 9051  | 1.57  |       | 80   |       | 2054 | 1620 | 1.00 |
| LOW CR. KEYMODE | 10404 | 3.15  |       | 1069 |       | 2018 | **** | 8.20 |
| HI. CR. KEYMODE | 10327 | 2.41  |       | 1678 |       | 1991 | 1990 | 5.50 |
| 2500 RPM        |       |       |       |      |       |      | 1790 | 2.40 |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 292

1971 CHEV NOVA 307 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 29,533 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 4.40        | -0030        | +01        | +01        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 5.06        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0840 DATE: 11/02/73 BAROMETER: 24.60 WET BULB: 71 DRY BULB: 51  
RELATIVE HUMIDITY : 25.5% NOX HUMIDITY CORRECTION : .841

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.50      | 79.7      | 536.4      | 4.13       | 12.99      |            |            |            |
| COLD STABILIZED | 5.40      | 46.7      | 530.4      | 3.26       | 14.34      |            |            |            |
| HOT TRANSIENT   | 4.77      | 43.3      | 422.1      | 3.79       | 17.63      |            |            |            |
| 1975 COMPOSITE  | 5.67      | 52.7      | 501.6      | 3.59       | 14.79      |            |            |            |
| IDLE KEYMODE    | 5191      | 5.09      |            | 55         |            | 534        | 350        | 3.80       |
| LOW CR. KEYMODE | 4124      | 0.79      |            | 1996       |            | 544        | 350        | 0.55       |
| HI. CR. KEYMODE | 3531      | 1.32      |            | 2272       |            | 399        | 215        | 1.20       |
| 2500 RPM        |           |           |            |            |            |            | 150        | 1.70       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0891 DATE: 11/07/73 BAROMETER: 24.68 WET BULB: 77 DRY BULB: 54  
RELATIVE HUMIDITY : 22.5% NOX HUMIDITY CORRECTION : .850

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.41      | 74.0      | 598.5      | 5.01       | 12.06      |            |            |            |
| COLD STABILIZED | 5.04      | 30.2      | 609.0      | 4.35       | 13.24      |            |            |            |
| HOT TRANSIENT   | 4.83      | 46.4      | 467.7      | 4.84       | 16.02      |            |            |            |
| 1975 COMPOSITE  | 5.48      | 43.9      | 567.6      | 4.62       | 13.62      |            |            |            |
| IDLE KEYMODE    | 4965      | 5.06      |            | 64         |            | 488        | 300        | 3.60       |
| LOW CR. KEYMODE | 3992      | 1.22      |            | 1912       |            | 525        | 330        | 1.10       |
| HI. CR. KEYMODE | 3337      | 0.99      |            | 2555       |            | 367        | 190        | 0.75       |
| 2500 RPM        |           |           |            |            |            |            | 120        | 1.60       |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 293

1972 FORD MUST 351      3500 LBS      HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC      19,843 MILES      HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.10        | +0140        | +00        | +04        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 9.64        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0841    DATE: 11/02/73    BAROMETER: 24.61    WET BULB: 73    DRY BULB: 52  
RELATIVE HUMIDITY : 24.4%    NOX HUMIDITY CORRECTION : .844

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.28      | 174.3     | 691.2      | 1.31       | 8.98       |            |            |            |
| COLD STABILIZED | 5.79      | 135.1     | 654.3      | 1.05       | 10.06      |            |            |            |
| HOT TRANSIENT   | 5.81      | 114.9     | 568.2      | 1.31       | 11.61      |            |            |            |
| 1975 COMPOSITE  | 6.32      | 137.7     | 638.1      | 1.17       | 10.19      |            |            |            |
| IDLE KEYMODE    | 4817      | 6.28      |            | 54         |            | 469        | 260        | 4.60       |
| LOW CR. KEYMODE | 2137      | 1.72      |            | 386        |            | 228        | 90         | 1.40       |
| HI. CR. KEYMODE | 2665      | 1.69      |            | 849        |            | 251        | 100        | 1.50       |
| 2500 RPM        |           |           |            |            |            |            | 100        | 1.60       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0882    DATE: 11/06/73    BAROMETER: 24.62    WET BULB: 78    DRY BULB: 55  
RELATIVE HUMIDITY : 23.4%    NOX HUMIDITY CORRECTION : .860

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 11.00     | 189.5     | 574.3      | 1.98       | 9.82       |            |            |            |
| COLD STABILIZED | 9.72      | 163.8     | 537.5      | 1.11       | 10.79      |            |            |            |
| HOT TRANSIENT   | 7.51      | 109.2     | 481.4      | 1.96       | 13.16      |            |            |            |
| 1975 COMPOSITE  | 9.37      | 154.0     | 529.6      | 1.53       | 11.12      |            |            |            |
| IDLE KEYMODE    | 9665      | 9.64      |            | 21         |            | 1001       | 630        | 7.60       |
| LOW CR. KEYMODE | 3755      | 2.45      |            | 586        |            | 432        | 265        | 2.30       |
| HI. CR. KEYMODE | 3692      | 2.94      |            | 1197       |            | 408        | 225        | 2.70       |
| 2500 RPM        |           |           |            |            |            |            | 135        | 3.00       |

MANDATORY MAINTENANCE COST: LABOR= 21.60    PARTS= 27.35    TOTAL= 48.95

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 294

1969 CHRY NEWP 383 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 65,163 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 0.14        | +0000        | +00        | +01        | OK         | OK          | OK           | NA           | YES          | NA          |
| AFTER MTCE | 0.39        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0837 DATE: 11/02/73 BAROMETER: 24.53 WET BULB: 69 DRY BULB: 50  
RELATIVE HUMIDITY : 26.7% NOX HUMIDITY CORRECTION : .839

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.65      | 124.9     | 614.3      | 2.47       | 10.67      |            |            |            |
| COLD STABILIZED | 3.32      | 37.8      | 672.7      | 2.42       | 11.99      |            |            |            |
| HOT TRANSIENT   | 4.76      | 101.9     | 519.0      | 2.44       | 12.83      |            |            |            |
| 1975 COMPOSITE  | 4.63      | 73.8      | 617.8      | 2.43       | 11.90      |            |            |            |
| IDLE KEYMODE    | 917       | 0.15      |            | 85         |            | 174        | 40         | 0.15       |
| LOW CR. KEYMODE | 2772      | 1.22      |            | 1252       |            | 332        | 160        | 1.10       |
| HI. CR. KEYMODE | 3655      | 4.17      |            | 1156       |            | 409        | 215        | 3.30       |
| 2500 RPM        |           |           |            |            |            |            | 420        | 1.00       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0883 DATE: 11/06/73 BAROMETER: 24.63 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.5% NOX HUMIDITY CORRECTION : .832

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.33      | 151.0     | 633.0      | 2.35       | 9.97       |            |            |            |
| COLD STABILIZED | 3.08      | 37.7      | 706.2      | 2.41       | 11.49      |            |            |            |
| HOT TRANSIENT   | 4.22      | 79.0      | 556.3      | 2.55       | 12.84      |            |            |            |
| 1975 COMPOSITE  | 4.29      | 72.9      | 649.3      | 2.43       | 11.46      |            |            |            |
| IDLE KEYMODE    | 1855      | 0.39      |            | 171        |            | 215        | 100        | 0.20       |
| LOW CR. KEYMODE | 4140      | 1.07      |            | 1511       |            | 415        | 180        | 0.80       |
| HI. CR. KEYMODE | 3921      | 2.91      |            | 1485       |            | 446        | 140        | 2.30       |
| 2500 RPM        |           |           |            |            |            |            | 350        | 0.50       |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 295

1970 DODG POLA 383 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 53,254 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 3.80 | +0140 | +05 | +00 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 4.80 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0842 DATE: 11/02/73 BAROMETER: 24.64 WET BULB: 69 DRY BULB: 49  
RELATIVE HUMIDITY : 23.4% NOX HUMIDITY CORRECTION : .825

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.60 | 114.6 | 618.4 | 4.52 | 10.83 |     |     |      |
| COLD STABILIZED | 4.45 | 74.3  | 622.7 | 4.61 | 11.82 |     |     |      |
| HOT TRANSIENT   | 3.91 | 71.6  | 524.6 | 4.85 | 13.71 |     |     |      |
| 1975 COMPOSITE  | 4.96 | 82.0  | 594.6 | 4.66 | 12.05 |     |     |      |
| IDLE KEYMODE    | 3108 | 4.00  |       | 70   |       | 260 | 145 | 3.20 |
| LOW CR. KEYMODE | 2548 | 0.15  |       | 3200 |       | 311 | 155 | 0.17 |
| HI. CR. KEYMODE | 2816 | 1.22  |       | 2700 |       | 314 | 150 | 1.20 |
| 2500 RPM        |      |       |       |      |       |     | 50  | 0.30 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0895 DATE: 11/07/73 BAROMETER: 24.69 WET BULB: 78 DRY BULB: 56  
RELATIVE HUMIDITY : 26.0% NOX HUMIDITY CORRECTION : .875

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.01 | 98.2 | 622.6 | 4.23 | 11.19 |     |     |      |
| COLD STABILIZED | 4.19 | 74.0 | 636.9 | 3.39 | 11.62 |     |     |      |
| HOT TRANSIENT   | 4.14 | 88.4 | 568.7 | 4.09 | 12.36 |     |     |      |
| 1975 COMPOSITE  | 4.56 | 83.0 | 615.0 | 3.76 | 11.72 |     |     |      |
| IDLE KEYMODE    | 3589 | 4.80 |       | 70   |       | 336 | 100 | 1.80 |
| LOW CR. KEYMODE | 3093 | 0.40 |       | 2376 |       | 350 | 90  | 0.20 |
| HI. CR. KEYMODE | 3131 | 1.70 |       | 1977 |       | 337 | 90  | 0.75 |
| 2500 RPM        |      |      |       |      |       |     | 40  | 0.40 |

MANDATORY MAINTENANCE COST: LABCR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 297

1971 PLYM DUST 198 3000 LBS HIGH ALTITUDE RETROFIT  
6 CYL 1 BBL 3 SPEED 27,784 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 5.90 | -0080 | +00 | +03 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 1.65 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0838 DATE: 11/02/73 BAROMETER: 24.56 WET BULB: 71 DRY BULB: 50  
RELATIVE HUMIDITY : 22.5% NOX HUMIDITY CORRECTION : .828

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.80 | 135.5 | 336.8 | 1.60 | 15.42 |     |     |      |
| COLD STABILIZED | 7.03 | 119.0 | 350.4 | 1.30 | 15.91 |     |     |      |
| HOT TRANSIENT   | 6.31 | 106.2 | 308.4 | 1.80 | 17.98 |     |     |      |
| 1975 COMPOSITE  | 7.20 | 118.9 | 335.9 | 1.50 | 16.33 |     |     |      |
| IDLE KEYMODE    | 5055 | 6.24  |       | 2590 |       | 416 | 270 | 4.80 |
| LOW CR. KEYMODE | 4013 | 4.64  |       | 819  |       | 483 | 330 | 3.60 |
| HI. CR. KEYMODE | 3375 | 3.89  |       | 1441 |       | 394 | 220 | 3.10 |
| 2500 RPM        |      |       |       |      |       |     | 210 | 4.80 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0908 DATE: 11/08/73 BAROMETER: 24.72 WET BULB: 74 DRY BULB: 52  
RELATIVE HUMIDITY : 22.4% NOX HUMIDITY CORRECTION : .837

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.35 | 132.8 | 333.3 | 1.42 | 15.76 |     |     |      |
| COLD STABILIZED | 4.77 | 104.2 | 349.5 | 0.89 | 16.85 |     |     |      |
| HOT TRANSIENT   | 4.92 | 105.6 | 294.5 | 1.18 | 18.71 |     |     |      |
| 1975 COMPOSITE  | 5.35 | 110.6 | 330.9 | 1.08 | 17.08 |     |     |      |
| IDLE KEYMODE    | 2754 | 1.65  |       | 82   |       | 278 | 140 | 1.20 |
| LOW CR. KEYMODE | 3115 | 3.36  |       | 1271 |       | 355 | 200 | 0.80 |
| HI. CR. KEYMODE | 4053 | 9.38  |       | 190  |       | 472 | 275 | 7.50 |
| 2500 RPM        |      |       |       |      |       |     | 170 | 3.40 |

MANDATORY MAINTENANCE COST: LABOR= 19.20 PARTS= 17.41 TOTAL= 36.61

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 298

1972 AMMO JAVE 360 3500 LBS HIGH ALTITUDE RETROFIT .  
8 CYL 4 BBL 4 SPEED 23,737 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 1.20 | -0180 | -02 | +00 | BAD | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 0.46 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0870 DATE: 11/06/73 BAROMETER: 24.65 WET BULB: 69 DRY BULB: 50  
RELATIVE HUMIDITY : 26.6% NOX HUMIDITY CORRECTION : .837

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 20.55 | 223.4 | 525.7 | 0.90 | 9.46  |     |     |      |
| COLD STABILIZED | 6.00  | 101.4 | 566.0 | 1.35 | 11.96 |     |     |      |
| HOT TRANSIENT   | 9.09  | 121.1 | 487.6 | 1.45 | 12.60 |     |     |      |
| 1975 COMPOSITE  | 9.90  | 132.4 | 535.8 | 1.28 | 11.49 |     |     |      |
| IDLE KEYMODE    | 926   | 1.70  |       | 55   |       | 182 | 30  | 0.50 |
| LOW CR. KEYMODE | 569   | 1.05  |       | 846  |       | 192 | 25  | 0.32 |
| HI. CR. KEYMODE | 954   | 2.34  |       | 788  |       | 222 | 35  | 0.65 |
| 2500 RPM        |       |       |       |      |       |     | 45  | 0.09 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0907 DATE: 11/08/73 BAROMETER: 24.72 WET BULB: 74 DRY BULB: 52  
RELATIVE HUMIDITY : 22.4% NOX HUMIDITY CORRECTION : .837

|                 | HC    | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|-------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 10.87 | 79.2 | 588.3 | 4.22 | 11.92 |      |     |      |
| COLD STABILIZED | 9.11  | 42.4 | 619.6 | 2.91 | 12.45 |      |     |      |
| HOT TRANSIENT   | 7.67  | 63.8 | 475.1 | 3.47 | 14.85 |      |     |      |
| 1975 COMPOSITE  | 9.08  | 56.0 | 572.9 | 3.34 | 12.91 |      |     |      |
| IDLE KEYMODE    | 9471  | 0.46 |       | 69   |       | 1945 | 270 | 0.25 |
| LOW CR. KEYMODE | 2856  | 0.32 |       | 1682 |       | 396  | 140 | 0.21 |
| HI. CR. KEYMODE | 2193  | 1.16 |       | 2179 |       | 328  | 120 | 0.80 |
| 2500 RPM        |       |      |       |      |       |      | 140 | 0.19 |

MANDATORY MAINTENANCE COST: LABOR= 24.00 PARTS= 9.55 TOTAL= 33.55

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 299

1972 PLYM SATE 318 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 28,091 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 8.19 | -0200 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 5.74 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0873 DATE: 11/06/73 BAROMETER: 24.65 WET BULB: 69 DRY BULB: 49  
RELATIVE HUMIDITY : 23.4% NOX HUMIDITY CORRECTION : .824

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.48 | 132.9 | 450.6 | 1.61 | 13.10 |     |     |      |
| COLD STABILIZED | 6.43 | 153.4 | 437.8 | 1.11 | 12.74 |     |     |      |
| HOT TRANSIENT   | 5.40 | 118.3 | 363.6 | 1.23 | 15.72 |     |     |      |
| 1975 COMPOSITE  | 6.16 | 139.4 | 419.9 | 1.25 | 13.53 |     |     |      |
| IDLE KEYMODE    | 7153 | 9.00  |       | 44   |       | 664 | 160 | 2.70 |
| LOW CR. KEYMODE | 3656 | 3.22  |       | 703  |       | 447 | 110 | 1.00 |
| HI. CR. KEYMODE | 3476 | 3.91  |       | 768  |       | 406 | 90  | 1.20 |
| 2500 RPM        |      |       |       |      |       |     | 90  | 1.30 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0926 DATE: 11/09/73 BAROMETER: 24.85 WET BULB: 76 DRY BULB: 55  
RELATIVE HUMIDITY : 26.8% NOX HUMIDITY CORRECTION : .869

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.31 | 110.5 | 520.2 | 1.74 | 12.53 |     |     |      |
| COLD STABILIZED | 5.04 | 123.3 | 520.0 | 1.33 | 12.20 |     |     |      |
| HOT TRANSIENT   | 5.21 | 107.6 | 484.3 | 1.81 | 13.29 |     |     |      |
| 1975 COMPOSITE  | 5.14 | 116.3 | 510.1 | 1.55 | 12.56 |     |     |      |
| IDLE KEYMODE    | 4274 | 5.74  |       | 69   |       | 546 | 340 | 4.10 |
| LOW CR. KEYMODE | 3341 | 3.33  |       | 550  |       | 360 | 220 | 2.70 |
| HI. CR. KEYMODE | 3255 | 3.70  |       | 813  |       | 335 | 185 | 2.90 |
| 2500 RPM        |      |       |       |      |       |     | 210 | 4.30 |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 301

1973 MERC COME 302      3000 LBS      ' HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC      10,804 MILES      HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 3.40 | +0040 | +02 | +00 | OK  | BAD  | OK    | NA    | NO    | OK   |
| AFTER MTCE | 3.33 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0874      DATE: 11/06/73      BAROMETER: 24.65      WET BULB: 78      DRY BULB: 54  
RELATIVE HUMIDITY : 20.8%      NOX HUMIDITY CORRECTION : .844

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.98 | 107.3 | 562.8 | 1.54 | 11.87 |     |     |      |
| COLD STABILIZED | 5.31 | 114.9 | 503.0 | 1.11 | 12.72 |     |     |      |
| HOT TRANSIENT   | 4.08 | 68.2  | 483.1 | 1.40 | 14.76 |     |     |      |
| 1975 COMPOSITE  | 5.11 | 100.3 | 510.0 | 1.28 | 13.03 |     |     |      |
| IDLE KEYMODE    | 3306 | 4.66  |       | 75   |       | 290 | 65  | 1.00 |
| LOW CR. KEYMODE | 3379 | 2.50  |       | 558  |       | 386 | 80  | 0.70 |
| HI. CR. KEYMODE | 3296 | 1.78  |       | 868  |       | 390 | 80  | 0.50 |
| 2500 RPM        |      |       |       |      |       |     | 70  | 0.80 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0927      DATE: 11/09/73      BAROMETER: 24.86      WET BULB: 72      DRY BULB: 54  
RELATIVE HUMIDITY : 32.2%      NOX HUMIDITY CORRECTION : .876

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.17 | 66.9 | 565.2 | 1.75 | 12.91 |     |     |      |
| COLD STABILIZED | 3.87 | 52.8 | 549.8 | 1.21 | 13.81 |     |     |      |
| HOT TRANSIENT   | 4.36 | 74.4 | 459.6 | 1.18 | 15.08 |     |     |      |
| 1975 COMPOSITE  | 4.49 | 61.7 | 528.0 | 1.31 | 13.93 |     |     |      |
| IDLE KEYMODE    | 3689 | 3.33 |       | 81   |       | 448 | 370 | 3.20 |
| LOW CR. KEYMODE | 3600 | 2.79 |       | 477  |       | 408 | 280 | 2.30 |
| HI. CR. KEYMODE | 3599 | 2.43 |       | 805  |       | 415 | 260 | 2.20 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 2.10 |

MANDATORY MAINTENANCE COST: LABOR= 21.60      PARTS= 22.75      TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 302

1973 BUIC CENT 350 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 6,508 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 0.63 | +0000 | -02 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |
| AFTER MTCE | 0.80 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0871 DATE: 11/06/73 BAROMETER: 24.65 WET BULB: 69 DRY BULB: 50  
RELATIVE HUMIDITY : 26.6% NOX HUMIDITY CORRECTION : .837

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.83 | 129.6 | 656.3 | 1.58 | 10.21 |     |     |      |
| COLD STABILIZED | 2.44 | 73.1  | 668.8 | 0.90 | 11.25 |     |     |      |
| HOT TRANSIENT   | 2.85 | 88.4  | 531.2 | 2.06 | 13.11 |     |     |      |
| 1975 COMPOSITE  | 2.84 | 89.2  | 628.0 | 1.36 | 11.46 |     |     |      |
| IDLE KEYMODE    | 534  | 0.80  |       | 72   |       | 172 | 35  | 0.62 |
| LOW CR. KEYMODE | 2278 | 3.61  |       | 445  |       | 366 | 145 | 0.80 |
| HI. CR. KEYMODE | 1801 | 3.10  |       | 1091 |       | 320 | 100 | 0.80 |
| 2500 RPM        |      |       |       |      |       |     | 35  | 0.20 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0871 DATE: 11/06/73 BAROMETER: 24.65 WET BULB: 69 DRY BULB: 50  
RELATIVE HUMIDITY : 26.6% NOX HUMIDITY CORRECTION : .837

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.83 | 129.6 | 656.3 | 1.58 | 10.21 |     |     |      |
| COLD STABILIZED | 2.44 | 73.1  | 668.8 | 0.90 | 11.25 |     |     |      |
| HOT TRANSIENT   | 2.85 | 88.4  | 531.2 | 2.06 | 13.11 |     |     |      |
| 1975 COMPOSITE  | 2.84 | 89.2  | 628.0 | 1.36 | 11.46 |     |     |      |
| IDLE KEYMODE    | 534  | 0.80  |       | 72   |       | 172 | 35  | 0.62 |
| LOW CR. KEYMODE | 2278 | 3.61  |       | 445  |       | 366 | 145 | 0.80 |
| HI. CR. KEYMODE | 1801 | 3.10  |       | 1091 |       | 320 | 100 | 0.80 |
| 2500 RPM        |      |       |       |      |       |     | 35  | 0.20 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 303

1973 PLYM DUST 318 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 6,473 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 2.45 | -0120 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |
| AFTER MTCE | 2.45 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0875 DATE: 11/06/73 BAROMETER: 24.65 WET BULB: 82 DRY BULB: 56  
RELATIVE HUMIDITY : 19.5% NOX HUMIDITY CORRECTION : .853

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.26 | 134.8 | 500.8 | 1.64 | 12.11 |     |     |      |
| COLD STABILIZED | 3.66 | 77.5  | 505.2 | 1.35 | 13.95 |     |     |      |
| HOT TRANSIENT   | 3.74 | 86.9  | 455.4 | 1.66 | 14.75 |     |     |      |
| 1975 COMPOSITE  | 4.43 | 92.1  | 490.5 | 1.50 | 13.72 |     |     |      |
| IDLE KEYMODE    | 2377 | 2.45  |       | 76   |       | 242 | 45  | 0.60 |
| LOW CR. KEYMODE | 3220 | 2.36  |       | 1455 |       | 424 | 85  | 0.70 |
| HI. CR. KEYMODE | 3186 | 3.66  |       | 781  |       | 394 | 80  | 1.00 |
| 2500 RPM        |      |       |       |      |       |     | 80  | 0.90 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0875 DATE: 11/06/73 BAROMETER: 24.65 WET BULB: 82 DRY BULB: 56  
RELATIVE HUMIDITY : 19.5% NOX HUMIDITY CORRECTION : .853

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.26 | 134.8 | 500.8 | 1.64 | 12.11 |     |     |      |
| COLD STABILIZED | 3.66 | 77.5  | 505.2 | 1.35 | 13.95 |     |     |      |
| HOT TRANSIENT   | 3.74 | 86.9  | 455.4 | 1.66 | 14.75 |     |     |      |
| 1975 COMPOSITE  | 4.43 | 92.1  | 490.5 | 1.50 | 13.72 |     |     |      |
| IDLE KEYMODE    | 2377 | 2.45  |       | 76   |       | 242 | 45  | 0.60 |
| LOW CR. KEYMODE | 3220 | 2.36  |       | 1455 |       | 424 | 85  | 0.70 |
| HI. CR. KEYMODE | 3186 | 3.66  |       | 781  |       | 394 | 80  | 1.00 |
| 2500 RPM        |      |       |       |      |       |     | 80  | 0.90 |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 304

1972 DODG CORO 318 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 22,983 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 2.75 | -0150 | +00 | -01 | BAD | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 3.05 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0885 DATE: 11/07/73 BAROMETER: 24.67 WET BULB: 69 DRY BULB: 51  
RELATIVE HUMIDITY : 29.7% NOX HUMIDITY CORRECTION : .851

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.34 | 97.0 | 469.4 | 3.29 | 13.94 |     |     |      |
| COLD STABILIZED | 4.38 | 79.2 | 473.9 | 2.42 | 14.54 |     |     |      |
| HOT TRANSIENT   | 4.43 | 95.3 | 399.9 | 2.49 | 15.80 |     |     |      |
| 1975 COMPOSITE  | 4.60 | 87.4 | 452.4 | 2.62 | 14.74 |     |     |      |
| IDLE KEYMODE    | 3380 | 2.91 |       | 53   |       | 313 | 225 | 2.70 |
| LOW CR. KEYMODE | 3612 | 2.50 |       | 1422 |       | 478 | 350 | 2.50 |
| HI. CR. KEYMODE | 3829 | 5.21 |       | 917  |       | 484 | 350 | 4.80 |
| 2500 RPM        |      |      |       |      |       |     | 210 | 3.40 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0928 DATE: 11/09/73 BAROMETER: 24.86 WET BULB: 80 DRY BULB: 60  
RELATIVE HUMIDITY : 32.7% NOX HUMIDITY CORRECTION : .933

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.46 | 63.7 | 561.5 | 3.39 | 13.18 |     |     |      |
| COLD STABILIZED | 3.37 | 49.1 | 555.1 | 2.08 | 13.85 |     |     |      |
| HOT TRANSIENT   | 3.75 | 78.1 | 445.6 | 2.19 | 15.35 |     |     |      |
| 1975 COMPOSITE  | 3.71 | 60.2 | 526.1 | 2.38 | 14.09 |     |     |      |
| IDLE KEYMODE    | 2822 | 3.05 |       | 95   |       | 306 | 170 | 2.70 |
| LOW CR. KEYMODE | 3025 | 2.21 |       | 1003 |       | 390 | 180 | 1.60 |
| HI. CR. KEYMODE | 3404 | 4.18 |       | 816  |       | 439 | 220 | 3.20 |
| 2500 RPM        |      |      |       |      |       |     | 120 | 1.80 |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 21.31 TOTAL= 44.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
1900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 305

1969 AMMO AMBA 290 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 54,001 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 4.95 | -0130 | +00 | +01 | OK  | OK   | OK    | NA    | YES   | NA   |
| AFTER MTCE | 5.50 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0886 DATE: 11/07/73 BAROMETER: 24.67 WET BULB: 76 DRY BULB: 51  
RELATIVE HUMIDITY : 16.4% NOX HUMIDITY CORRECTION : .814

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.03 | 133.3 | 527.6 | 2.14 | 11.78 |     |     |      |
| COLD STABILIZED | 4.66 | 91.3  | 544.5 | 2.18 | 12.67 |     |     |      |
| HOT TRANSIENT   | 5.41 | 118.5 | 475.3 | 2.28 | 13.12 |     |     |      |
| 1975 COMPOSITE  | 5.16 | 107.6 | 521.8 | 2.20 | 12.60 |     |     |      |
| IDLE KEYMODE    | 4060 | 5.50  |       | 68   |       | 412 | 300 | 4.90 |
| LOW CR. KEYMODE | 3441 | 2.02  |       | 1171 |       | 424 | 255 | 2.20 |
| HI. CR. KEYMODE | 4170 | 5.65  |       | 671  |       | 527 | 330 | 5.00 |
| 2500 RPM        |      |       |       |      |       |     | 180 | 3.00 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0886 DATE: 11/07/73 BAROMETER: 24.67 WET BULB: 76 DRY BULB: 51  
RELATIVE HUMIDITY : 16.4% NOX HUMIDITY CORRECTION : .814

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.03 | 133.3 | 527.6 | 2.14 | 11.78 |     |     |      |
| COLD STABILIZED | 4.66 | 91.3  | 544.5 | 2.18 | 12.67 |     |     |      |
| HOT TRANSIENT   | 5.41 | 118.5 | 475.3 | 2.28 | 13.12 |     |     |      |
| 1975 COMPOSITE  | 5.16 | 107.6 | 521.8 | 2.20 | 12.60 |     |     |      |
| IDLE KEYMODE    | 4060 | 5.50  |       | 68   |       | 412 | 300 | 4.90 |
| LOW CR. KEYMODE | 3441 | 2.02  |       | 1171 |       | 424 | 255 | 2.20 |
| HI. CR. KEYMODE | 4170 | 5.65  |       | 671  |       | 527 | 330 | 5.00 |
| 2500 RPM        |      |       |       |      |       |     | 180 | 3.00 |

MANDATORY MAINTENANCE COST: LABOR= 24.00 PARTS= 8.75 TOTAL= 32.75

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 306

1969 BUIC ELEC 430 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 34,898 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 1.20 | -0160 | -05 | +03 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 3.15 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0888 DATE: 11/07/73 BAROMETER: 24.66 WET BULB: 74 DRY BULB: 50  
RELATIVE HUMIDITY : 17.0% NOX HUMIDITY CORRECTION : .811

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.36 | 191.3 | 617.1 | 2.92 | 9.46  |     |     |      |
| COLD STABILIZED | 6.42 | 135.7 | 628.6 | 2.09 | 10.33 |     |     |      |
| HOT TRANSIENT   | 5.67 | 130.5 | 507.4 | 3.09 | 12.19 |     |     |      |
| 1975 COMPOSITE  | 6.41 | 145.9 | 592.6 | 2.54 | 10.58 |     |     |      |
| IDLE KEYMODE    | 3414 | 1.20  |       | 70   |       | 282 | 210 | 1.20 |
| LOW CR. KEYMODE | 3413 | 2.09  |       | 1268 |       | 383 | 270 | 1.90 |
| HI. CR. KEYMODE | 3170 | 3.26  |       | 1633 |       | 383 | 240 | 3.00 |
| 2500 RPM        |      |       |       |      |       |     | 185 | 2.80 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0941 DATE: 11/12/73 BAROMETER: 24.70 WET BULB: 69 DRY BULB: 46  
RELATIVE HUMIDITY : 14.3% NOX HUMIDITY CORRECTION : .789

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.76 | 116.2 | 633.2 | 6.19 | 10.64 |     |     |      |
| COLD STABILIZED | 5.67 | 90.5  | 614.2 | 3.37 | 11.50 |     |     |      |
| HOT TRANSIENT   | 4.72 | 70.1  | 540.3 | 5.31 | 13.38 |     |     |      |
| 1975 COMPOSITE  | 5.64 | 90.2  | 597.7 | 4.50 | 11.76 |     |     |      |
| IDLE KEYMODE    | 4158 | 3.15  |       | 156  |       | 496 | 420 | 2.90 |
| LOW CR. KEYMODE | 3549 | 2.12  |       | 1767 |       | 450 | 325 | 2.00 |
| HI. CR. KEYMODE | 3118 | 1.55  |       | 3107 |       | 399 | 255 | 1.55 |
| 2500 RPM        |      |       |       |      |       |     | 195 | 3.00 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 307

1969 CHEV NOVA 230 3000 LBS HIGH ALTITUDE RETROFIT  
6 CYL 1 BBL AUTOMATIC 29,124 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO<br>---- | I.RPM<br>----- | TIM<br>--- | DWL<br>--- | PCV<br>--- | A.CL<br>--- | CHOKE<br>--- | A.PMP<br>--- | MISF.<br>--- | NOXC<br>--- |
|------------|--------------|----------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.50         | -0100          | -01        | -01        | OK         | OK          | OK           | NA           | YES          | NA          |
| AFTER MTCE | 5.50         | +0000          | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0887 DATE: 11/07/73 BAROMETER: 24.66 WET BULB: 74 DRY BULB: 50  
RELATIVE HUMIDITY : 17.0% NOX HUMIDITY CORRECTION : .811

|                 | HC<br>---- | CO<br>----- | CO2<br>----- | NOX<br>----- | MPG<br>----- | LHC<br>----- | SHC<br>----- | SCO<br>----- |
|-----------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| COLD TRANSIENT  | 7.23       | 124.8       | 420.6        | 3.17         | 13.92        |              |              |              |
| COLD STABILIZED | 4.00       | 59.0        | 429.0        | 3.19         | 16.66        |              |              |              |
| HOT TRANSIENT   | 3.98       | 68.6        | 394.2        | 3.86         | 17.30        |              |              |              |
| 1975 COMPOSITE  | 4.67       | 75.5        | 417.6        | 3.37         | 16.17        |              |              |              |
| IDLE KEYMODE    | 3993       | 4.20        |              | 63           |              | 374          | 280          | 3.70         |
| LOW CR. KEYMODE | 3692       | 3.70        |              | 1147         |              | 446          | 335          | 3.50         |
| HI. CR. KEYMODE | 3230       | 2.80        |              | 1833         |              | 378          | 245          | 2.60         |
| 2500 RPM        |            |             |              |              |              |              | 1700         | 2.40         |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0949 DATE: 11/12/73 BAROMETER: 24.52 WET BULB: 73 DRY BULB: 52  
RELATIVE HUMIDITY : 24.5% NOX HUMIDITY CORRECTION : .844

|                 | HC<br>---- | CO<br>----- | CO2<br>----- | NOX<br>----- | MPG<br>----- | LHC<br>----- | SHC<br>----- | SCO<br>----- |
|-----------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| COLD TRANSIENT  | 8.15       | 128.4       | 430.8        | 2.61         | 13.53        |              |              |              |
| COLD STABILIZED | 3.37       | 57.5        | 457.9        | 2.54         | 15.93        |              |              |              |
| HOT TRANSIENT   | 3.22       | 64.5        | 393.0        | 3.03         | 17.65        |              |              |              |
| 1975 COMPOSITE  | 4.33       | 74.3        | 434.2        | 2.69         | 15.78        |              |              |              |
| IDLE KEYMODE    | 3718       | 5.50        |              | 70           |              | 351          | 250          | 4.60         |
| LOW CR. KEYMODE | 3255       | 2.89        |              | 1232         |              | 385          | 275          | 2.60         |
| HI. CR. KEYMODE | 3269       | 4.71        |              | 850          |              | 351          | 220          | 4.00         |
| 2500 RPM        |            |             |              |              |              |              | 200          | 0.75         |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 19.41 TOTAL= 42.21

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 308

1969 FORD TORI 351 3500 LBS .HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 21,037 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 3.60 | -0030 | +00 | +02 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 2.20 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0889 DATE: 11/07/73 BAROMETER: 24.68 WET BULB: 70 DRY BULB: 50  
RELATIVE HUMIDITY : 24.4% NOX HUMIDITY CORRECTION : .832

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.74 | 51.8 | 594.5 | 3.26 | 12.89 |     |     |      |
| COLD STABILIZED | 3.56 | 38.2 | 572.8 | 2.27 | 13.83 |     |     |      |
| HOT TRANSIENT   | 4.21 | 46.2 | 479.7 | 2.55 | 15.74 |     |     |      |
| 1975 COMPOSITE  | 3.99 | 43.3 | 551.5 | 2.56 | 14.09 |     |     |      |
| IDLE KEYMODE    | 3389 | 3.81 |       | 78   |       | 318 | 200 | 3.40 |
| LOW CR. KEYMODE | 2741 | 0.35 |       | 1384 |       | 319 | 175 | 0.30 |
| HI. CR. KEYMODE | 3360 | 1.68 |       | 1918 |       | 407 | 235 | 1.50 |
| 2500 RPM        |      |      |       |      |       |     | 110 | 2.50 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0953 DATE: 11/13/73 BAROMETER: 24.50 WET BULB: 74 DRY BULB: 51  
RELATIVE HUMIDITY : 19.9% NOX HUMIDITY CORRECTION : .826

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.09 | 70.7 | 571.3 | 3.08 | 12.69 |     |     |      |
| COLD STABILIZED | 3.71 | 31.4 | 587.8 | 3.19 | 13.72 |     |     |      |
| HOT TRANSIENT   | 4.91 | 33.8 | 496.4 | 3.24 | 15.76 |     |     |      |
| 1975 COMPOSITE  | 4.54 | 40.3 | 559.0 | 3.18 | 13.99 |     |     |      |
| IDLE KEYMODE    | 3680 | 2.20 |       | 198  |       | 449 | 290 | 1.40 |
| LOW CR. KEYMODE | 3059 | 0.31 |       | 1731 |       | 341 | 175 | 0.30 |
| HI. CR. KEYMODE | 3461 | 1.22 |       | 2366 |       | 406 | 215 | 1.00 |
| 2500 RPM        |      |      |       |      |       |     | 65  | 0.80 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 309

1969 FORD TORI 351 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 74,369 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 6.50 | -0050 | -02 | -02 | OK  | OK   | OK    | NA    | YES   | NA   |
| AFTER MTCE | 6.14 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0890 DATE: 11/07/73 BAROMETER: 24.68 WET BULB: 75 DRY BULB: 52  
RELATIVE HUMIDITY : 20.7% NOX HUMIDITY CORRECTION : .832

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.47 | 126.3 | 457.2 | 2.28 | 13.11 |     |     |      |
| COLD STABILIZED | 5.49 | 104.6 | 466.1 | 2.33 | 13.75 |     |     |      |
| HOT TRANSIENT   | 5.18 | 92.5  | 412.9 | 2.90 | 15.50 |     |     |      |
| 1975 COMPOSITE  | 5.82 | 105.8 | 449.5 | 2.48 | 14.05 |     |     |      |
| IDLE KEYMODE    | 6065 | 8.05  |       | 53   |       | 554 | 380 | 7.00 |
| LOW CR. KEYMODE | 3695 | 1.59  |       | 2237 |       | 453 | 300 | 1.30 |
| HI. CR. KEYMODE | 3776 | 2.72  |       | 2211 |       | 453 | 280 | 2.30 |
| 2500 RPM        |      |       |       |      |       |     | 140 | 1.80 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0950 DATE: 11/12/73 BAROMETER: 24.52 WET BULB: 71 DRY BULB: 51  
RELATIVE HUMIDITY : 25.5% NOX HUMIDITY CORRECTION : .841

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 9.76 | 147.8 | 480.2 | 2.72 | 11.98 |     |     |      |
| COLD STABILIZED | 5.45 | 108.5 | 484.1 | 3.27 | 13.26 |     |     |      |
| HOT TRANSIENT   | 5.25 | 86.4  | 474.5 | 3.94 | 14.20 |     |     |      |
| 1975 COMPOSITE  | 6.30 | 110.6 | 480.6 | 3.34 | 13.21 |     |     |      |
| IDLE KEYMODE    | 4604 | 6.14  |       | 75   |       | 423 | 270 | 5.10 |
| LOW CR. KEYMODE | 3146 | 0.26  |       | 2586 |       | 383 | 240 | 0.20 |
| HI. CR. KEYMODE | 3382 | 0.75  |       | 4001 |       | 421 | 260 | 2.20 |
| 2500 RPM        |      |       |       |      |       |     | 120 | 2.00 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 310

1972 FORD MAVE 302      3000 LBS      HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL    AUTOMATIC      8,455 MILES      HAS:    EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 2.35 | -0020 | -02 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 1.60 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0902    DATE: 11/08/73    BAROMETER: 24.68    WET BULB: 69    DRY BULB: 49  
RELATIVE HUMIDITY : 23.4%    NOX HUMIDITY CORRECTION : .824

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.01 | 68.4 | 488.1 | 3.30 | 14.49 |     |     |      |
| COLD STABILIZED | 4.41 | 43.5 | 543.8 | 2.45 | 14.22 |     |     |      |
| HOT TRANSIENT   | 7.52 | 51.1 | 476.0 | 3.75 | 15.35 |     |     |      |
| 1975 COMPOSITE  | 5.61 | 50.9 | 513.4 | 2.99 | 14.58 |     |     |      |
| IDLE KEYMODE    | 2795 | 2.52 |       | 92   |       | 267 | 210 | 3.90 |
| LOW CR. KEYMODE | 3858 | 1.77 |       | 1511 |       | 479 | 365 | 1.80 |
| HI. CR. KEYMODE | 4029 | 1.53 |       | 2761 |       | 505 | 370 | 1.50 |
| 2500 RPM        |      |      |       |      |       |     | 195 | 1.80 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0934    DATE: 11/09/73    BAROMETER: 24.83    WET BULB: 72    DRY BULB: 51  
RELATIVE HUMIDITY : 23.2%    NOX HUMIDITY CORRECTION : .833

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.43 | 86.2 | 534.3 | 3.58 | 12.91 |     |     |      |
| COLD STABILIZED | 3.88 | 41.7 | 554.7 | 1.84 | 14.08 |     |     |      |
| HOT TRANSIENT   | 5.01 | 41.1 | 459.9 | 3.60 | 16.48 |     |     |      |
| 1975 COMPOSITE  | 4.72 | 50.8 | 524.1 | 2.69 | 14.39 |     |     |      |
| IDLE KEYMODE    | 2734 | 1.60 |       | 132  |       | 325 | 225 | 1.40 |
| LOW CR. KEYMODE | 3507 | 1.59 |       | 1190 |       | 445 | 300 | 1.50 |
| HI. CR. KEYMODE | 3737 | 1.68 |       | 2500 |       | 490 | 325 | 1.60 |
| 2500 RPM        |      |      |       |      |       |     | 125 | 1.30 |

MANDATORY MAINTENANCE COST: LABOR= 21.60    PARTS= 22.75    TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 311

1972 FORD MAVE 250 2750 LBS HIGH ALTITUDE RETROFIT  
6 CYL 1 BBL AUTOMATIC 22,036 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 8.10 | -0120 | -04 | +00 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 1.44 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0903 DATE: 11/08/73 BAROMETER: 24.67 WET BULB: 80 DRY BULB: 56  
RELATIVE HUMIDITY : 22.6% NOX HUMIDITY CORRECTION : .864

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.51 | 75.0  | 480.4 | 4.15 | 14.54 |     |     |      |
| COLD STABILIZED | 3.68 | 102.9 | 396.8 | 1.80 | 15.62 |     |     |      |
| HOT TRANSIENT   | 3.34 | 76.5  | 384.0 | 3.36 | 17.30 |     |     |      |
| 1975 COMPOSITE  | 3.76 | 89.7  | 410.8 | 2.72 | 15.80 |     |     |      |
| IDLE KEYMODE    | 4617 | 9.10  |       | 58   |       | 390 | 250 | 8.40 |
| LOW CR. KEYMODE | 3330 | 3.67  |       | 1156 |       | 411 | 290 | 3.40 |
| HI. CR. KEYMODE | 2764 | 1.91  |       | 2295 |       | 312 | 180 | 1.80 |
| 2500 RPM        |      |       |       |      |       |     | 210 | 4.20 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0951 DATE: 11/13/73 BAROMETER: 24.50 WET BULB: 71 DRY BULB: 51  
RELATIVE HUMIDITY : 25.5% NOX HUMIDITY CORRECTION : .842

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 3.87 | 46.9 | 477.5 | 5.46 | 15.80 |     |     |      |
| COLD STABILIZED | 2.80 | 30.3 | 450.7 | 3.49 | 17.56 |     |     |      |
| HOT TRANSIENT   | 3.81 | 37.9 | 393.4 | 4.47 | 19.15 |     |     |      |
| 1975 COMPOSITE  | 3.30 | 35.9 | 440.4 | 4.17 | 17.56 |     |     |      |
| IDLE KEYMODE    | 2333 | 1.44 |       | 263  |       | 273 | 190 | 1.45 |
| LOW CR. KEYMODE | 3312 | 2.24 |       | 1542 |       | 456 | 295 | 2.00 |
| HI. CR. KEYMODE | 2691 | 1.96 |       | 2585 |       | 308 | 155 | 1.90 |
| 2500 RPM        |      |      |       |      |       |     | 160 | 2.80 |

MANDATORY MAINTENANCE COST: LABOR= 19.20 PARTS= 18.55 TOTAL= 37.75

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 312

1972 MERC COME 302      3000 LBS      HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC      8,589 MILES      HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 2.30        | +0020        | -01        | -08        | OK         | OK          | OK           | NA           | NO           | NA          |
| AFTER MTCE | 5.64        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0904    DATE: 11/08/73    BAROMETER: 24.67    WET BULB: 80    DRY BULB: 56  
RELATIVE HUMIDITY : 22.6%    NOX HUMIDITY CORRECTION : .864

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 5.15      | 87.9      | 527.7      | 2.85       | 13.05      |            |            |            |
| COLD STABILIZED | 3.14      | 56.6      | 508.6      | 1.11       | 14.66      |            |            |            |
| HOT TRANSIENT   | 4.34      | 56.3      | 446.5      | 2.65       | 16.23      |            |            |            |
| 1975 COMPOSITE  | 3.89      | 63.1      | 495.4      | 1.90       | 14.68      |            |            |            |
| IDLE KEYMODE    | 2585      | 2.45      |            | 86         |            | 247        | 160        | 2.50       |
| LOW CR. KEYMODE | 3374      | 1.93      |            | 756        |            | 437        | 300        | 2.70       |
| HI. CR. KEYMODE | 3773      | 2.23      |            | 1718       |            | 478        | 330        | 2.30       |
| 2500 RPM        |           |           |            |            |            |            | 130        | 1.20       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0956    DATE: 11/13/73    BAROMETER: 24.51    WET BULB: 73    DRY BULB: 50  
RELATIVE HUMIDITY : 18.9%    NOX HUMIDITY CORRECTION : .818

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.52      | 140.3     | 541.3      | 3.21       | 11.38      |            |            |            |
| COLD STABILIZED | 3.64      | 87.9      | 623.2      | 1.30       | 11.52      |            |            |            |
| HOT TRANSIENT   | 6.13      | 92.7      | 505.3      | 2.92       | 13.28      |            |            |            |
| 1975 COMPOSITE  | 4.94      | 100.2     | 573.4      | 2.15       | 11.93      |            |            |            |
| IDLE KEYMODE    | 3768      | 5.64      |            | 81         |            | 440        | 280        | 4.90       |
| LOW CR. KEYMODE | 3662      | 3.33      |            | 950        |            | 434        | 295        | 2.80       |
| HI. CR. KEYMODE | 3925      | 2.99      |            | 1851       |            | 501        | 330        | 2.40       |
| 2500 RPM        |           |           |            |            |            |            | 180        | 3.10       |

MANDATORY MAINTENANCE COST: LABOR= 21.60    PARTS= 22.75    TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 314

1971 FORD BRON 302 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL 3 SPEED 20,440 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO<br>--- | I.RPM<br>--- | TIM<br>--- | DWL<br>--- | PCV<br>--- | A.CL<br>--- | CHOKE<br>--- | A.PMP<br>--- | MISF.<br>--- | NOXC<br>--- |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 2.30        | -0050        | +04        | +00        | OK         | OK          | OK           | NA           | YES          | NA          |
| AFTER MTCE | 0.54        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0906 DATE: 11/08/73 BAROMETER: 24.71 WET BULB: 74 DRY BULB: 53  
RELATIVE HUMIDITY : 25.2% NOX HUMIDITY CORRECTION : .851

|                 | HC<br>--- | CO<br>--- | CO2<br>--- | NOX<br>--- | MPG<br>--- | LHC<br>--- | SHC<br>--- | SCO<br>--- |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 10.31     | 118.2     | 459.1      | 2.87       | 13.14      |            |            |            |
| COLD STABILIZED | 7.71      | 97.5      | 495.9      | 1.53       | 13.22      |            |            |            |
| HOT TRANSIENT   | 7.50      | 93.5      | 406.2      | 2.76       | 15.44      |            |            |            |
| 1975 COMPOSITE  | 8.19      | 100.7     | 463.3      | 2.15       | 13.76      |            |            |            |
| IDLE KEYMODE    | 6787      | 3.34      |            | 54         |            | 1219       | 1000       | 2.80       |
| LOW CR. KEYMODE | 4340      | 3.22      |            | 1655       |            | 497        | 340        | 2.70       |
| HI. CR. KEYMODE | 3773      | 2.73      |            | 1840       |            | 457        | 280        | 2.30       |
| 2500 RPM        |           |           |            |            |            |            | 1150       | 2.20       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0957 DATE: 11/13/73 BAROMETER: 24.52 WET BULB: 77 DRY BULB: 52  
RELATIVE HUMIDITY : 17.5% NOX HUMIDITY CORRECTION : .823

|                 | HC<br>--- | CO<br>--- | CO2<br>--- | NOX<br>--- | MPG<br>--- | LHC<br>--- | SHC<br>--- | SCO<br>--- |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 8.57      | 106.3     | 504.1      | 2.58       | 12.75      |            |            |            |
| COLD STABILIZED | 5.46      | 75.3      | 552.8      | 1.25       | 12.94      |            |            |            |
| HOT TRANSIENT   | 8.17      | 95.1      | 425.5      | 2.04       | 14.82      |            |            |            |
| 1975 COMPOSITE  | 6.86      | 87.3      | 507.3      | 1.75       | 13.37      |            |            |            |
| IDLE KEYMODE    | 1419      | 0.54      |            | 91         |            | 177        | 165        | 0.35       |
| LOW CR. KEYMODE | 3626      | 2.97      |            | 1546       |            | 392        | 260        | 2.60       |
| HI. CR. KEYMODE | 3329      | 2.32      |            | 1711       |            | 366        | 225        | 1.80       |
| 2500 RPM        |           |           |            |            |            |            | 150        | 2.00       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 315

1971 OLDS CUTL 350 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 4 BBL AUTOMATIC 26,169 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 4.50 | -0073 | +02 | -01 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 3.83 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0918 DATE: 11/09/73 BAROMETER: 24.80 WET BULB: 69 DRY BULB: 50  
RELATIVE HUMIDITY : 26.4% NOX HUMIDITY CORRECTION : .836

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.50 | 81.1 | 619.5 | 3.93 | 11.65 |     |     |      |
| COLD STABILIZED | 3.89 | 42.5 | 595.8 | 3.98 | 13.20 |     |     |      |
| HOT TRANSIENT   | 4.63 | 63.1 | 572.1 | 5.90 | 12.98 |     |     |      |
| 1975 COMPOSITE  | 4.43 | 56.3 | 594.2 | 4.50 | 12.79 |     |     |      |
| IDLE KEYMODE    | 3707 | 4.84 |       | 58   |       | 360 | 250 | 4.70 |
| LOW CR. KEYMODE | 3173 | 1.29 |       | 2017 |       | 433 | 290 | 1.20 |
| HI. CR. KEYMODE | 2883 | 0.71 |       | 3017 |       | 366 | 210 | 0.75 |
| 2500 RPM        |      |      |       |      |       |     | 80  | 1.90 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0975 DATE: 11/14/73 BAROMETER: 24.43 WET BULB: 70 DRY BULB: 51  
RELATIVE HUMIDITY : 27.7% NOX HUMIDITY CORRECTION : .848

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.58 | 46.4 | 583.3 | 5.43 | 13.28 |     |     |      |
| COLD STABILIZED | 3.34 | 35.9 | 556.6 | 3.23 | 14.28 |     |     |      |
| HOT TRANSIENT   | 3.15 | 25.8 | 463.7 | 4.67 | 17.32 |     |     |      |
| 1975 COMPOSITE  | 3.55 | 35.3 | 536.4 | 4.09 | 14.77 |     |     |      |
| IDLE KEYMODE    | 3779 | 3.83 |       | 66   |       | 345 | 220 | 3.00 |
| LOW CR. KEYMODE | 2793 | 1.14 |       | 1302 |       | 336 | 200 | 0.90 |
| HI. CR. KEYMODE | 2751 | 0.78 |       | 2920 |       | 323 | 165 | 0.60 |
| 2500 RPM        |      |      |       |      |       |     | 100 | 1.50 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 25.17 TOTAL= 58.77

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 316

1970 MERC MONT 302 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL 3 SPEED 27,532 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 0.15 | -0225 | +00 | +06 | BAD | BAD  | OK    | NA    | YES   | NA   |
| AFTER MTCE | 1.04 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0919 DATE: 11/09/73 BAROMETER: 24.83 WET BULB: 76 DRY BULB: 52  
RELATIVE HUMIDITY : 18.8% NOX HUMIDITY CORRECTION : .825

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.19 | 106.4 | 442.8 | 1.69 | 14.01 |     |     |      |
| COLD STABILIZED | 5.79 | 53.4  | 522.3 | 2.12 | 14.26 |     |     |      |
| HOT TRANSIENT   | 6.56 | 70.2  | 409.4 | 2.17 | 16.48 |     |     |      |
| 1975 COMPOSITE  | 6.50 | 69.2  | 474.3 | 2.04 | 14.76 |     |     |      |
| IDLE KEYMODE    | 5680 | 0.18  |       | 70   |       | 924 | 700 | 0.30 |
| LOW CR. KEYMODE | 4173 | 1.39  |       | 1568 |       | 512 | 360 | 1.30 |
| HI. CR. KEYMODE | 4051 | 1.32  |       | 2390 |       | 526 | 350 | 1.30 |
| 2500 RPM        |      |       |       |      |       |     | 175 | 1.30 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0973 DATE: 11/14/73 BAROMETER: 24.49 WET BULB: 76 DRY BULB: 53  
RELATIVE HUMIDITY : 21.8% NOX HUMIDITY CORRECTION : .843

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC  | SCO  |
|-----------------|------|------|-------|------|-------|-----|------|------|
| COLD TRANSIENT  | 8.44 | 82.0 | 463.7 | 3.85 | 14.38 |     |      |      |
| COLD STABILIZED | 5.29 | 44.5 | 549.5 | 3.60 | 14.00 |     |      |      |
| HOT TRANSIENT   | 8.19 | 57.1 | 433.5 | 4.64 | 16.22 |     |      |      |
| 1975 COMPOSITE  | 6.76 | 55.9 | 499.4 | 3.94 | 14.64 |     |      |      |
| IDLE KEYMODE    | 1904 | 1.04 |       | 106  |       | 187 | 120  | 0.95 |
| LOW CR. KEYMODE | 4300 | 1.09 |       | 2309 |       | 563 | 410  | 1.05 |
| HI. CR. KEYMODE | 5375 | 1.38 |       | 3130 |       | 762 | 600  | 1.25 |
| 2500 RPM        |      |      |       |      |       |     | **** | 1.10 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 317

1971 FORD MAVE 200 2750 LBS HIGH ALTITUDE RETROFIT  
6 CYL 1 BBL AUTOMATIC 23,567 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 3.60        | +0000        | -06        | +00        | OK         | BAD         | OK           | NA           | NO           | NA          |
| AFTER MTCE | 3.58        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0921 DATE: 11/09/73 BAROMETER: 24.81 WET BULB: 74 DRY BULB: 52  
RELATIVE HUMIDITY : 22.3% NOX HUMIDITY CORRECTION : .836

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.36      | 119.5     | 454.0      | 3.14       | 13.39      |            |            |            |
| COLD STABILIZED | 6.10      | 116.7     | 384.3      | 1.63       | 15.17      |            |            |            |
| HOT TRANSIENT   | 4.99      | 66.0      | 381.0      | 3.40       | 17.79      |            |            |            |
| 1975 COMPOSITE  | 6.06      | 103.2     | 398.0      | 2.44       | 15.38      |            |            |            |
| IDLE KEYMODE    | 3641      | 4.05      |            | 97         |            | 335        | 200        | 3.70       |
| LOW CR. KEYMODE | 4816      | 4.43      |            | 730        |            | 688        | 560        | 4.20       |
| HI. CR. KEYMODE | 3945      | 1.44      |            | 2522       |            | 507        | 325        | 1.21       |
| 2500 RPM        |           |           |            |            |            |            | 270        | 2.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0976 DATE: 11/14/73 BAROMETER: 24.44 WET BULB: 71 DRY BULB: 47  
RELATIVE HUMIDITY : 14.0% NOX HUMIDITY CORRECTION : .792

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.56      | 129.2     | 443.7      | 3.27       | 13.28      |            |            |            |
| COLD STABILIZED | 5.14      | 85.1      | 401.5      | 2.06       | 16.15      |            |            |            |
| HOT TRANSIENT   | 5.42      | 61.8      | 371.6      | 3.50       | 18.33      |            |            |            |
| 1975 COMPOSITE  | 5.72      | 87.9      | 402.0      | 2.71       | 15.96      |            |            |            |
| IDLE KEYMODE    | 3524      | 3.58      |            | 88         |            | 308        | 200        | 2.60       |
| LOW CR. KEYMODE | 5173      | 6.28      |            | 432        |            | 742        | 590        | 4.90       |
| HI. CR. KEYMODE | 4192      | 2.25      |            | 2247       |            | 560        | 500        | 2.00       |
| 2500 RPM        |           |           |            |            |            |            | 270        | 1.20       |

MANDATORY MAINTENANCE COST: LABOR= 19.20 PARTS= 18.55 TOTAL= 37.75

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 318

1971 FORD GALA 400 4000 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 40,209 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 6.60        | +0075        | +00        | +00        | OK         | OK          | OK           | NA           | YES          | NA          |
| AFTER MTCE | 3.19        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | NA          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0922 DATE: 11/09/73 BAROMETER: 24.81 WET BULB: 72 DRY BULB: 51  
RELATIVE HUMIDITY : 23.2% NOX HUMIDITY CORRECTION : .833

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 6.99      | 123.2     | 718.0      | 7.95       | 9.54       |            |            |            |
| COLD STABILIZED | 4.80      | 107.8     | 649.6      | 5.78       | 10.68      |            |            |            |
| HOT TRANSIENT   | 4.50      | 63.4      | 602.9      | 8.27       | 12.43      |            |            |            |
| 1975 COMPOSITE  | 5.17      | 98.7      | 650.9      | 6.92       | 10.83      |            |            |            |
| IDLE KEYMODE    | 4501      | 7.07      |            | 64         |            | 389        | 285        | 6.70       |
| LOW CR. KEYMODE | 2532      | 0.71      |            | 3383       |            | 295        | 170        | 0.65       |
| HI. CR. KEYMODE | 2016      | 0.33      |            | 3965       |            | 233        | 100        | 0.35       |
| 2500 RPM        |           |           |            |            |            |            | 270        | 0.85       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0977 DATE: 11/14/73 BAROMETER: 24.46 WET BULB: 71 DRY BULB: 48  
RELATIVE HUMIDITY : 16.8% NOX HUMIDITY CORRECTION : .804

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.59      | 224.4     | 602.4      | 2.65       | 9.10       |            |            |            |
| COLD STABILIZED | 3.70      | 54.3      | 621.0      | 3.49       | 12.40      |            |            |            |
| HOT TRANSIENT   | 3.99      | 47.0      | 554.7      | 4.94       | 13.89      |            |            |            |
| 1975 COMPOSITE  | 4.59      | 87.9      | 598.7      | 3.72       | 11.86      |            |            |            |
| IDLE KEYMODE    | 4148      | 3.19      |            | 53         |            | 466        | 320        | 2.50       |
| LOW CR. KEYMODE | 2529      | 1.26      |            | 1711       |            | 304        | 170        | 1.10       |
| HI. CR. KEYMODE | 1794      | 0.49      |            | 3014       |            | 230        | 290        | 0.45       |
| 2500 RPM        |           |           |            |            |            |            | 90         | 1.20       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 319

1971 FORD TORI 351      3500 LBS      HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC      13,444 MILES      HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 5.10 | -0100 | +00 | +01 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 3.29 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0923    DATE: 11/09/73    BAROMETER: 24.85    WET BULB: 68    DRY BULB: 51  
RELATIVE HUMIDITY : 31.9%    NOX HUMIDITY CORRECTION : .855

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.29 | 75.7 | 606.3 | 5.13 | 11.95 |     |     |      |
| COLD STABILIZED | 5.31 | 92.7 | 564.4 | 2.68 | 12.25 |     |     |      |
| HOT TRANSIENT   | 4.91 | 57.0 | 472.2 | 4.33 | 15.43 |     |     |      |
| 1975 COMPOSITE  | 5.41 | 79.3 | 547.6 | 3.65 | 12.92 |     |     |      |
| IDLE KEYMODE    | 4376 | 5.31 |       | 65   |       | 392 | 310 | 5.00 |
| LOW CR. KEYMODE | 3293 | 0.38 |       | 2136 |       | 436 | 285 | 0.80 |
| HI. CR. KEYMODE | 3312 | 1.14 |       | 2929 |       | 425 | 240 | 1.00 |
| 2500 RPM        |      |      |       |      |       |     | 170 | 1.10 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0979    DATE: 11/14/73    BAROMETER: 24.49    WET BULB: 73    DRY BULB: 48  
RELATIVE HUMIDITY : 13.5%    NOX HUMIDITY CORRECTION : .794

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.20 | 85.0 | 581.7 | 4.56 | 12.07 |     |     |      |
| COLD STABILIZED | 6.67 | 96.7 | 470.7 | 2.00 | 13.83 |     |     |      |
| HOT TRANSIENT   | 6.05 | 55.9 | 510.6 | 4.50 | 14.42 |     |     |      |
| 1975 COMPOSITE  | 6.61 | 82.9 | 505.0 | 3.23 | 13.57 |     |     |      |
| IDLE KEYMODE    | 3372 | 3.29 |       | 73   |       | 298 | 200 | 3.40 |
| LOW CR. KEYMODE | 3297 | 1.09 |       | 2173 |       | 391 | 260 | 0.90 |
| HI. CR. KEYMODE | 3179 | 1.11 |       | 2891 |       | 354 | 215 | 0.90 |
| 2500 RPM        |      |      |       |      |       |     | 150 | 0.85 |

MANDATORY MAINTENANCE COST: LABOR= 21.60    PARTS= 22.75    TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 320

1973 FORD MUST 351 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 3,445 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 6.00 | +0055 | -08 | +00 | OK  | OK   | OK    | NA    | NO    | BAD  |
| AFTER MTCE | 6.10 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0924 DATE: 11/09/73 BAROMETER: 24.81 WET BULB: 70 DRY BULB: 51  
RELATIVE HUMIDITY : 27.4% NOX HUMIDITY CORRECTION : .844

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 5.28 | 98.6  | 572.4 | 1.83 | 11.97 |     |     |      |
| COLD STABILIZED | 5.02 | 134.5 | 513.8 | 0.99 | 12.02 |     |     |      |
| HOT TRANSIENT   | 4.36 | 83.4  | 442.6 | 1.71 | 15.16 |     |     |      |
| 1975 COMPOSITE  | 4.89 | 112.8 | 506.3 | 1.37 | 12.74 |     |     |      |
| IDLE KEYMODE    | 5642 | 6.46  |       | 51   |       | 485 | 350 | 5.80 |
| LOW CR. KEYMODE | 2981 | 2.14  |       | 1074 |       | 410 | 280 | 2.00 |
| HI. CR. KEYMODE | 2819 | 1.73  |       | 1360 |       | 382 | 230 | 1.70 |
| 2500 RPM        |      |       |       |      |       |     | 190 | 2.40 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0985 DATE: 11/15/73 BAROMETER: 24.76 WET BULB: 72 DRY BULB: 49  
RELATIVE HUMIDITY : 17.6% NOX HUMIDITY CORRECTION : .808

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.70 | 105.1 | 637.8 | 0.93 | 10.89 |     |     |      |
| COLD STABILIZED | 4.04 | 126.9 | 607.2 | 0.64 | 10.87 |     |     |      |
| HOT TRANSIENT   | 4.18 | 87.0  | 516.4 | 0.83 | 13.36 |     |     |      |
| 1975 COMPOSITE  | 4.22 | 111.3 | 588.4 | 0.75 | 11.47 |     |     |      |
| IDLE KEYMODE    | 3398 | 6.10  |       | 63   |       | 368 | 245 | 5.30 |
| LOW CR. KEYMODE | 2391 | 2.09  |       | 485  |       | 301 | 180 | 1.90 |
| HI. CR. KEYMODE | 2117 | 1.49  |       | 491  |       | 251 | 115 | 1.40 |
| 2500 RPM        |      |       |       |      |       |     | 90  | 2.55 |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 321

1970 CHEV NOVA 250 3500 LBS HIGH ALTITUDE RETROFIT  
6 CYL 1 BBL AUTOMATIC 12,130 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 4.70 | +0050 | -02 | +00 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 0.12 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0935 DATE: 11/12/73 BAROMETER: 24.73 WET BULB: 73 DRY BULB: 50  
RELATIVE HUMIDITY : 18.6% NOX HUMIDITY CORRECTION : .816

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 6.04 | 115.5 | 558.5 | 3.80 | 11.73 |     |     |      |
| COLD STABILIZED | 3.14 | 42.7  | 539.5 | 2.58 | 14.44 |     |     |      |
| HOT TRANSIENT   | 2.78 | 40.2  | 493.3 | 4.10 | 15.75 |     |     |      |
| 1975 COMPOSITE  | 3.65 | 57.2  | 530.7 | 3.26 | 14.09 |     |     |      |
| IDLE KEYMODE    | 3421 | 5.09  |       | 90   |       | 392 | 345 | 4.70 |
| LOW CR. KEYMODE | 2644 | 0.83  |       | 2139 |       | 238 | 155 | 0.85 |
| HI. CR. KEYMODE | 2679 | 1.43  |       | 2324 |       | 258 | 145 | 1.45 |
| 2500 RPM        |      |       |       |      |       |     | 80  | 1.35 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0983 DATE: 11/15/73 BAROMETER: 24.76 WET BULB: 74 DRY BULB: 46  
RELATIVE HUMIDITY : 6.6% NOX HUMIDITY CORRECTION : .766

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 4.29 | 69.8 | 508.8 | 4.05 | 14.09 |     |     |      |
| COLD STABILIZED | 2.29 | 6.9  | 524.9 | 2.92 | 16.40 |     |     |      |
| HOT TRANSIENT   | 2.60 | 14.6 | 429.1 | 4.23 | 19.35 |     |     |      |
| 1975 COMPOSITE  | 2.80 | 22.2 | 494.9 | 3.52 | 16.53 |     |     |      |
| IDLE KEYMODE    | 2223 | 0.12 |       | 177  |       | 262 | 215 | 0.15 |
| LOW CR. KEYMODE | 2272 | 0.35 |       | 1989 |       | 240 | 155 | 0.40 |
| HI. CR. KEYMODE | 2106 | 0.25 |       | 3500 |       | 229 | 125 | 0.28 |
| 2500 RPM        |      |      |       |      |       |     | 45  | 0.35 |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 19.41 TOTAL= 42.21

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 322

1970 CHEV NOVA 307 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 32,511 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 7.40 | -0025 | -02 | -08 | OK  | OK   | OK    | NA    | NO    | NA   |
| AFTER MTCE | 4.53 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0936 DATE: 11/12/73 BAROMETER: 24.72 WET BULB: 73 DRY BULB: 50  
RELATIVE HUMIDITY : 18.6% NOX HUMIDITY CORRECTION : .816

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 10.06 | 109.4 | 412.5 | 2.80 | 14.45 |     |     |      |
| COLD STABILIZED | 7.74  | 78.4  | 412.3 | 2.57 | 15.90 |     |     |      |
| HOT TRANSIENT   | 5.74  | 59.8  | 358.6 | 3.53 | 18.92 |     |     |      |
| 1975 COMPOSITE  | 7.67  | 79.7  | 397.5 | 2.88 | 16.28 |     |     |      |
| IDLE KEYMODE    | 7291  | 8.97  |       | 50   |       | 916 | 750 | 7.35 |
| LOW CR. KEYMODE | 4197  | 0.88  |       | 2229 |       | 557 | 430 | 1.05 |
| HI. CR. KEYMODE | 3847  | 1.78  |       | 2152 |       | 466 | 320 | 1.70 |
| 2500 RPM        |       |       |       |      |       |     | 190 | 1.70 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0988 DATE: 11/15/73 BAROMETER: 24.76 WET BULB: 76 DRY BULB: 49  
RELATIVE HUMIDITY : 11.3% NOX HUMIDITY CORRECTION : .789

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC  | SHC | SCO  |
|-----------------|------|------|-------|------|-------|------|-----|------|
| COLD TRANSIENT  | 7.23 | 89.7 | 396.6 | 2.56 | 15.89 |      |     |      |
| COLD STABILIZED | 4.69 | 43.4 | 447.2 | 2.33 | 16.79 |      |     |      |
| HOT TRANSIENT   | 4.82 | 47.2 | 361.9 | 2.96 | 19.73 |      |     |      |
| 1975 COMPOSITE  | 5.26 | 54.2 | 412.9 | 2.56 | 17.31 |      |     |      |
| IDLE KEYMODE    | 7433 | 4.53 |       | 53   |       | 1307 | 240 | 3.20 |
| LOW CR. KEYMODE | 4068 | 1.27 |       | 1601 |       | 544  | 385 | 1.20 |
| HI. CR. KEYMODE | 3776 | 2.77 |       | 1494 |       | 461  | 315 | 2.50 |
| 2500 RPM        |      |      |       |      |       |      | 520 | 1.80 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 323

1970 PONT TEMP 350 3500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 30,849 MILES HAS: EMC, NO EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 8.50 | +0025 | +01 | -03 | OK  | BAD  | OK    | NA    | NO    | NA   |
| AFTER MTCE | 5.81 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | NA   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0937 DATE: 11/12/73 BAROMETER: 24.71 WET BULB: 73 DRY BULB: 50  
RELATIVE HUMIDITY : 18.7% NOX HUMIDITY CORRECTION : .816

|                 | HC    | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|-------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 20.34 | 206.8 | 477.9 | 2.70 | 10.27 |     |     |      |
| COLD STABILIZED | 22.78 | 248.9 | 480.4 | 1.91 | 9.44  |     |     |      |
| HOT TRANSIENT   | 12.51 | 160.3 | 393.1 | 2.67 | 13.01 |     |     |      |
| 1975 COMPOSITE  | 19.42 | 215.5 | 455.7 | 2.29 | 10.41 |     |     |      |
| IDLE KEYMODE    | 11538 | 8.77  |       | 204  |       | 785 | 720 | 8.20 |
| LOW CR. KEYMODE | 5488  | 7.62  |       | 1394 |       | 686 | 530 | 6.70 |
| HI. CR. KEYMODE | 3999  | 3.87  |       | 2063 |       | 457 | 295 | 3.45 |
| 2500 RPM        |       |       |       |      |       |     | 175 | 5.00 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0986 DATE: 11/15/73 BAROMETER: 24.76 WET BULB: 74 DRY BULB: 49  
RELATIVE HUMIDITY : 14.3% NOX HUMIDITY CORRECTION : .798

|                 | HC   | CO    | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|-------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 8.83 | 194.5 | 517.3 | 1.47 | 10.47 |     |     |      |
| COLD STABILIZED | 4.85 | 162.6 | 563.8 | 1.17 | 10.67 |     |     |      |
| HOT TRANSIENT   | 4.59 | 125.7 | 433.9 | 1.37 | 13.79 |     |     |      |
| 1975 COMPOSITE  | 5.61 | 159.0 | 518.0 | 1.29 | 11.34 |     |     |      |
| IDLE KEYMODE    | 3976 | 5.81  |       | 86   |       | 302 | 155 | 4.80 |
| LOW CR. KEYMODE | 3425 | 5.33  |       | 433  |       | 415 | 230 | 4.40 |
| HI. CR. KEYMODE | 3185 | 4.00  |       | 1156 |       | 356 | 180 | 3.30 |
| 2500 RPM        |      |       |       |      |       |     | 150 | 3.50 |

MANDATORY MAINTENANCE COST: LABOR= 33.60 PARTS= 23.51 TOTAL= 57.11

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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 324

1973 CHEV NOVA 250 3500 LBS HIGH ALTITUDE RETROFIT  
6 CYL 1 BBL 3 SPEED 4,682 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | I.CO | I.RPM | TIM | DWL | PCV | A.CL | CHOKE | A.PMP | MISF. | NOXC |
|------------|------|-------|-----|-----|-----|------|-------|-------|-------|------|
| FROM OWNER | 0.95 | +0060 | -01 | +01 | OK  | BAD  | OK    | NA    | NO    | OK   |
| AFTER MTCE | 1.90 | +0000 | +00 | +00 | OK  | OK   | OK    | NA    | NO    | OK   |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0939 DATE: 11/12/73 BAROMETER: 24.70 WET BULB: 77 DRY BULB: 52  
RELATIVE HUMIDITY : 17.3% NOX HUMIDITY CORRECTION : .821

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.28 | 90.1 | 539.0 | 1.60 | 12.66 |     |     |      |
| COLD STABILIZED | 2.57 | 47.1 | 626.9 | 1.10 | 12.56 |     |     |      |
| HOT TRANSIENT   | 3.20 | 52.4 | 478.0 | 1.73 | 15.61 |     |     |      |
| 1975 COMPOSITE  | 3.73 | 57.5 | 567.2 | 1.38 | 13.31 |     |     |      |
| IDLE KEYMODE    | 788  | 1.32 |       | 67   |       | 122 | 40  | 0.95 |
| LOW CR. KEYMODE | 968  | 0.94 |       | 490  |       | 171 | 50  | 0.80 |
| HI. CR. KEYMODE | 537  | 1.09 |       | 869  |       | 138 | 30  | 0.95 |
| 2500 RPM        |      |      |       |      |       |     | 25  | 0.32 |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0984 DATE: 11/15/73 BAROMETER: 24.76 WET BULB: 73 DRY BULB: 47  
RELATIVE HUMIDITY : 10.5% NOX HUMIDITY CORRECTION : .781

|                 | HC   | CO   | CO2   | NOX  | MPG   | LHC | SHC | SCO  |
|-----------------|------|------|-------|------|-------|-----|-----|------|
| COLD TRANSIENT  | 7.90 | 85.7 | 483.2 | 2.00 | 13.85 |     |     |      |
| COLD STABILIZED | 2.78 | 45.0 | 547.0 | 1.15 | 14.21 |     |     |      |
| HOT TRANSIENT   | 4.38 | 51.7 | 426.2 | 2.03 | 17.08 |     |     |      |
| 1975 COMPOSITE  | 4.30 | 55.4 | 500.1 | 1.57 | 14.83 |     |     |      |
| IDLE KEYMODE    | 863  | 1.90 |       | 43   |       | 127 | 50  | 1.50 |
| LOW CR. KEYMODE | 1924 | 1.04 |       | 695  |       | 254 | 135 | 0.70 |
| HI. CR. KEYMODE | 1155 | 1.38 |       | 1481 |       | 201 | 50  | 1.00 |
| 2500 RPM        |      |      |       |      |       |     | 30  | 0.35 |

MANDATORY MAINTENANCE COST: LABOR= 22.80 PARTS= 19.41 TOTAL= 42.21

AUTOMOTIVE TESTING LABORATORIES, INC.  
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\*\*\* COLORADO-393 \*\*\*

VEHICLE NUMBER: 325

1973 FORD GALA 351 4500 LBS HIGH ALTITUDE RETROFIT  
8 CYL 2 BBL AUTOMATIC 16,385 MILES HAS: EMC, EVC, PCV

----- MAINTENANCE STATUS -----

|            | <u>I.CO</u> | <u>I.RPM</u> | <u>TIM</u> | <u>DWL</u> | <u>PCV</u> | <u>A.CL</u> | <u>CHOKE</u> | <u>A.PMP</u> | <u>MISF.</u> | <u>NOXC</u> |
|------------|-------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------|-------------|
| FROM OWNER | 5.50        | +0020        | +02        | +00        | OK         | OK          | OK           | NA           | NO           | OK          |
| AFTER MTCE | 5.03        | +0000        | +00        | +00        | OK         | OK          | OK           | NA           | NO           | OK          |

----- AS RECEIVED FROM OWNER -----

TEST NUMBER: C0938 DATE: 11/12/73 BAROMETER: 24.71 WET BULB: 77 DRY BULB: 52  
RELATIVE HUMIDITY : 17.3% NOX HUMIDITY CORRECTION : .821

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.48      | 117.7     | 591.9      | 2.16       | 11.13      |            |            |            |
| COLD STABILIZED | 5.43      | 112.7     | 604.1      | 1.89       | 11.16      |            |            |            |
| HOT TRANSIENT   | 5.37      | 86.9      | 520.4      | 2.25       | 13.22      |            |            |            |
| 1975 COMPOSITE  | 5.84      | 106.6     | 578.3      | 2.05       | 11.66      |            |            |            |
| IDLE KEYMODE    | 4013      | 5.85      |            | 88         |            | 454        | 375        | 5.00       |
| LOW CR. KEYMODE | 3681      | 2.00      |            | 1943       |            | 454        | 335        | 1.85       |
| HI. CR. KEYMODE | 3199      | 2.09      |            | 1125       |            | 372        | 250        | 1.95       |
| 2500 RPM        |           |           |            |            |            |            | 170        | 2.40       |

----- AFTER MANDATORY ENGINE MAINTENANCE -----

TEST NUMBER: C0980 DATE: 11/14/73 BAROMETER: 24.51 WET BULB: 70 DRY BULB: 47  
RELATIVE HUMIDITY : 15.7% NOX HUMIDITY CORRECTION : .797

|                 | <u>HC</u> | <u>CO</u> | <u>CO2</u> | <u>NOX</u> | <u>MPG</u> | <u>LHC</u> | <u>SHC</u> | <u>SCO</u> |
|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| COLD TRANSIENT  | 7.24      | 138.7     | 528.8      | 2.22       | 11.57      |            |            |            |
| COLD STABILIZED | 5.21      | 123.5     | 528.5      | 1.47       | 12.05      |            |            |            |
| HOT TRANSIENT   | 6.39      | 99.9      | 476.4      | 1.57       | 13.62      |            |            |            |
| 1975 COMPOSITE  | 5.96      | 120.2     | 514.1      | 1.65       | 12.34      |            |            |            |
| IDLE KEYMODE    | 3728      | 5.03      |            | 66         |            | 328        | 220        | 4.10       |
| LOW CR. KEYMODE | 3310      | 1.97      |            | 1265       |            | 425        | 280        | 1.60       |
| HI. CR. KEYMODE | 3355      | 2.09      |            | 1024       |            | 425        | 260        | 1.60       |
| 2500 RPM        |           |           |            |            |            |            | 110        | 1.70       |

MANDATORY MAINTENANCE COST: LABOR= 21.60 PARTS= 22.75 TOTAL= 44.35

AUTOMOTIVE TESTING LABORATORIES, INC.  
19900 E. COLFAX, AURORA, COLO. 80011

## APPENDICES

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(a) For light duty vehicles:

$$Y_{wm} = (0.43 Y_{c1} + 0.57 Y_{h1} + Y_c) / 7.5$$

where:

$Y_{wm}$  = Weighted mass emissions of each pollutant, i.e. HC, CO, or  $NO_x$ , in grams per vehicle mile.

$Y_{c1}$  = Mass emissions as calculated from the "transient" phase of the cold start test, in grams per test phase.

$Y_{h1}$  = Mass emissions as calculated from the "transient" phase of the hot start test, in grams per test phase.

$Y_c$  = Mass emissions as calculated from the "stabilized" phase of the cold start test, in grams per test phase.

(b) The mass of each pollutant for each phase of both the cold start test and the hot start test is determined from the following:

(1) Hydrocarbon Mass:

$$HC_{mass} = V_{m10} \times \text{Density}_{HC} \times \frac{HC_{conc}}{1,000,000}$$

(2) Oxides of nitrogen Mass:

$$NO_{xmass} = V_{m10} \times \text{Density}_{NO_x} \times \frac{NO_{xconc}}{1,000,000} \times K_R$$

(3) Carbon monoxide Mass:

$$CO_{mass} = V_{m10} \times \text{Density}_{CO} \times \frac{CO_{conc}}{1,000,000}$$

(c) Meaning of symbols:

$HC_{mass}$  = Hydrocarbon emissions, in grams per test phase.

$\text{Density}_{HC}$  = Density of hydrocarbons in the exhaust gas, assuming an average carbon to hydrogen ratio of 1:1.85, in grams per cubic foot at 68° F. and 760 mm. Hg pressure (16.33 gm./cu. ft.).

$HC_{conc}$  = Hydrocarbon concentration of the dilute exhaust sample corrected for background, in p.p.m. carbon equivalent, i.e. equivalent propane  $\times 3$ .

$$HC_{conc} = HC_s - HC_d(1 - 1/DF)$$

where:

$HC_s$  = Hydrocarbon concentrations of the dilute exhaust sample as measured, in p.p.m. carbon equivalent.

$HC_d$  = Hydrocarbon concentration of the dilution air as measured, in p.p.m. carbon equivalent.

$NO_{xmass}$  = Oxides of nitrogen emissions, in grams per test phase.

$\text{Density}_{NO_x}$  = Density of oxides of nitrogen in the exhaust gas, assuming they are in the form of nitrogen dioxide, in grams per cubic foot at 68° F. and 760 mm. Hg pressure (54.16 gm./cu. ft.).

$NO_{xconc}$  = Oxides of nitrogen concentration of the dilute exhaust sample corrected for background, in p.p.m.

$$NO_{xconc} = NO_{x2} - NO_{x1}(1 - 1/DF)$$

where:

$NO_{x2}$  = Oxides of nitrogen concentration of the dilute exhaust sample as measured, in p.p.m.

$NO_{x1}$  = Oxides of nitrogen concentration of the dilution air as measured, in p.p.m.

$CO_{mass}$  = Carbon monoxide emissions, in grams per test phase.

$\text{Density}_{CO}$  = Density of carbon monoxide in grams per cubic foot at 68° F. and 760 mm. Hg pressure (32.97 gm./cu. ft.).

$CO_{conc}$  = Carbon monoxide concentration of the dilute exhaust sample corrected for background, water vapor and  $CO_2$  extraction, in p.p.m.

$$CO_{conc} = CO_s - CO_d(1 - 1/DF)$$

where:

$CO_s$  = Carbon monoxide concentration of the dilute exhaust sample volume corrected for water vapor and carbon dioxide extraction, in p.p.m. The calculation assumes the carbon to hydrogen ratio of the fuel is 1:1.85.

$$CO_s = (1 - 0.01925 CO_{s2} - 0.000323 R) CO_{sm}$$

where:

$CO_{sm}$  = Carbon monoxide concentration of the dilute exhaust sample as measured in p.p.m.

$CO_{s2}$  = Carbon dioxide concentration of the dilute exhaust sample, in mole percent.

$R$  = Relative humidity of the dilution air, in percent.

$CO_{s2}$  = Carbon monoxide concentration of the dilution air corrected for water vapor extraction, in p.p.m.

$$CO_{s2} = (1 - 0.000323 R) CO_{sm}$$

where:

$CO_{sm}$  = Carbon monoxide concentration of the dilution air sample as measured, in p.p.m.

$$DF = \frac{13.4}{CO_{s2} + (HC_s + CO_s) \times 10^{-4}}$$

$V_{m10}$  = Total dilute exhaust volume in cubic feet per test phase corrected to standard conditions (528° R and 760 mm. Hg).

$$V_{m10} = V_g \times N \frac{(P_s - P_i)(528^\circ R)}{(760 \text{ mm. Hg})(T_s)}$$

where:

$V_g$  = Volume of gas pumped by the positive displacement pump, in cubic feet per revolution. This volume is dependent on the pressure differential across the positive displacement pump.

$N$  = Number of revolutions of the positive displacement pump during the test phase while samples are being collected.

$P_s$  = Barometric pressure in mm. Hg.

$P_i$  = Pressure depression below atmosphere measured at the inlet to the positive displacement pump.

$T_s$  = Average temperature of dilute exhaust entering positive displacement pump during test while samples are being collected, in degrees Rankine.

$K_R$  = Humidity correction factor.

$$K_R = \frac{1}{1 - 0.0047 (H - 75)}$$

where:

$H$  = Absolute humidity in grains of water per pound of dry air.

$$H = \frac{(43.478) R_a \times P_s}{P_s - (P_s \times R_a / 100)}$$

$R_a$  = Relative humidity of the ambient air, in percent.

$P_s$  = Saturated vapor pressure, in mm. Hg at the ambient dry bulb temperature.

(d) Example calculation of mass emission values:

(1) For the "transient" phase of the cold start test assume  $V_g = 0.29344$  cu. ft. per revolution;  $N = 10,485$ ;  $R = 48.0\%$ ;  $R_a = 48.2\%$ ;  $P_s = 762$  mm. Hg;  $P_i = 22.225$  mm. Hg;  $T_s = 570^\circ R$ ;  $HC_s = 105.8$  p.p.m. carbon equivalent;  $NO_{x2} = 11.2$  p.p.m.;  $CO_{sm} = 306.0$  p.p.m.;  $CO_{s2} = 1.43\%$ ;  $HC_d = 12.1$  p.p.m.;  $NO_{x1} = 0.8$  p.p.m.;  $CO_{d1} = 15.3$  p.p.m. Then:

$$V_{m10} = \frac{(0.29344)(10,485)(762 - 20)(528)}{(760)(570)} = 2595.0 \text{ cu. ft. per test phase.}$$

$$H = \frac{(43.478)(48.2)(22.225)}{762 - (22.225 \times 48.2 / 100)}$$

$$K_R = \frac{1}{1 - 0.0047(62 - 75)} = 0.9424.$$

$$CO_s = (1 - 0.01925(1.43) - 0.000323(48)) 306.0 = 293.4 \text{ p.p.m.}$$

$$CO_{s2} = (1 - 0.000323(48)) 15.3 = 15.1 \text{ p.p.m.}$$

$$DF = \frac{13.4}{1.43 + (105.8 + 293.4) \times 10^{-4}} = 9.116.$$

$$HC_{conc} = 105.8 - 12.1(1 - 1/9.116) = 95.03.$$

$$HC_{mass} = (2595)(95.03)(16.33/1,000,000) = 4.027 \text{ grams per test phase.}$$

$$NO_{xconc} = 11.2 - 0.8(1 - 1/9.116) = 10.49.$$

$$NO_{xmass} = (2595)(10.49)(54.16/1,000,000)(0.9424) = 1.389 \text{ grams per test phase.}$$

$$CO_{conc} = 293.4 - 15.1(1 - 1/9.116) = 280.$$

$$CO_{mass} = (2595)(280)(32.97/1,000,000) = 23.96 \text{ grams per test phase.}$$

(2) For the "stabilized" portion of the cold start test assume that similar calculations resulted in  $HC_{mass} = 0.51$  grams per test phase;  $NO_{xmass} = 1.27$  grams per test phase; and  $CO_{mass} = 5.98$  grams per test phase.

(3) For the "transient" portion of the

$$HC_{wm} = ((0.43)(4.027) + (0.57)(0.51) + 0.62) / 7.5 = 0.352 \text{ gram per vehicle mile.}$$

$$NO_{xwm} = ((0.43)(1.389) + (0.57)(1.27) + 1.27) / 7.5 = 0.354 \text{ gram per vehicle mile.}$$

$$CO_{wm} = ((0.43)(23.96) + (0.57)(5.01) + 5.98) / 7.5 = 2.55 \text{ grams per vehicle mile.}$$

§ 85.075-27 Calculations (fuel evaporative emissions).

The net weights of the individual collection traps employed in § 85.075-13 shall be added together to determine compliance with the fuel evaporative emission standard.

§ 85.075-28 Compliance with emission standards.

(a) The exhaust and fuel evaporative emission standards in § 85.075-1

apply to the emissions of vehicles for their useful life.

(b) Since emission control efficiency decreases with mileage accumulated on the vehicle, the emission level of a vehicle which has accumulated 50,000 miles will be used as the basis for determining compliance with the standards.

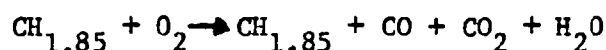
(c) The procedure for determining compliance of a new light duty motor vehicle with exhaust and fuel evaporative emission standards is as follows:

## APPENDIX 2.

### FUEL CONSUMPTION

The fuel consumption, in miles per gallon, for the Federal Test Procedure can be calculated using a carbon balance equation and the mass emissions found during the test.

If the hydrogen to carbon ratio in the fuel is assumed to be 1.85 then the combustion process can be explained by some chemical formula of the form:



The carbon constituent of each of the above is known as follows:

- 1 gram CO contains 12.011/28.010 gram carbon
- 1 gram CO<sub>2</sub> contains 12.011/44.010 gram carbon
- 1 gram CH<sub>1.85</sub> contains 12.011/13.875 gram carbon

The chemical formula yields a carbon balance equation in which the carbon in the fuel equals the carbon in the tailpipe exhaust

$$A \times \frac{12.011}{13.875} = \text{HC} \times \frac{12.011}{13.875} + \text{CO} \times \frac{12.011}{28.010} + \text{CO}_2 \times \frac{12.011}{44.010}$$

where,

- A = fuel used (hydrocarbons), in grams per mile
- HC = unburned hydrocarbons in exhaust, in grams per mile
- CO = carbon monoxide in exhaust, in grams per mile
- CO<sub>2</sub> = carbon dioxide in exhaust, in grams per mile

simplifying

$$A = \text{HC} + 0.4954 \times \text{CO} + .3153 \times \text{CO}_2$$

The density of gasoline is 2808 grams per gallon, so converting grams per mile to miles per gallon yields

$$\text{MPG} = 2808 / (\text{HC} + 0.4954 \text{ CO} + 0.3153 \text{ CO}_2)$$

## Maintenance Status Determination

1. Air Pump - With the engine running, the air pump hose is pulled off. If air is flowing, the pump is assumed to be working. With the engine off the belt tension is checked for sufficient tension to drive the pump at high speed.
2. Idle RPM and dwell will be measured with a Kal-equip model T-111 Dwell-Tach tester.
3. Timing will be measured with a Kal-equip model L-10 timing light.
4. The PCV test procedure is as follows:

Remove from valve cover, note RPM. Cover valve inlet, again note RPM. If the system is working properly, the RPM should fall off at least 50 RPM when the inlet is covered.
5. The air cleaner is assumed to be OK if it is not oil soaked or excessively dusty.
6. The choke is assumed to be OK if the heat riser is not bent and is operating freely, and if the vacuum kick responds to vacuum and is operating freely.
7. The idle CO will be measured with a Beckman Model 315A NDIR CO analyzer, during Keymode idle.
8. Misfire will be noted by monitoring HC and CO as the car is being accelerated to Keymode low cruise.
9. NOX Control - The distributor vacuum advance will be examined at Keymode low cruise and at Keymode high cruise. At low cruise, there should be no vacuum; at high cruise, there should be vacuum to the distributor.

