| Number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | 214 094 | Construction of the | sanyan | sangar. r | anan kap | 1000 | Link | Allowed Values | the state of the s | Process | Notes/Questions | Originator | Loans | 1995 | Applicable Business Rules | Validation Rules |
|------------------|--|---|--|--|---------------|---|---------|--------------------------|--------|----------------------------------|---|------|------|--|--|----------------------------------|---|--|---------------------------------|------|---|---|
| Vi-0.5 | Process Code | Safes the desired present code for the current submission. | TestVehideInformationS Innraison TestVehideInfor mationDealits | Information ProcessDode | TRUE | 1 per Test Vehicle Configuration | Å(1) | Enumeration | 1 | 1 | | | | Ne New distant 1 - Chrucklan of Antoling Yanify Salawat | Light-Duty | Cartificatio n Test Data | | Manufactu ser I | Front End | XML | LD-CTD-VI-88030 LD-CTD-VI-88031 | VLBR3D: If the Proces Cole (VRLS) is equil to °C (Connection) then this walking cannot have any active tasks, for which there are loaded and active Calification Summary (Momilation Report) [258, VLBR3T: If Process Cole (VRLS) is equil to °K (Report) these a sourch must already actif in the system with the same Vahida ID (VLBR3T: If Process Cole (VRLS) is equil to °K (Report) these a sourch must already actif in the system with the same Vahida ID (VLBR3T: If Process Cole (VRLS) and Manufacturer Cole (VRLS). |
| VH | Manufacturer Code | The 3-charaner signarumed code aragned by CPA to each manufacture. This will be derived on unark CCV sure account | TextVehideInformationSt ImmisionTextVehideInformationBeau | EP AManufactura Code | TRUE | 1 per Tea Vehicle Configuration | A(3) | Fixed String | 3 | 3 [A | -20-49[3] | | | | Light-Duty | Certificatio n Test Data | | Varity | Front end | XML | | V1881: Manufacuar Cade (15-1) mud exist in he speare. V1882: If Manufacuar Cade (15-2) is equal to °C (Derectica) and Original Test Velacits Model Yaar (17-1) is generate their or equal to ST-1, man. A sead on made you is in he speare with the man Velacita (D (15-2) Velacita Cadeparation Number (16-3), and Manufacuar Cade (15-1) mud match the manufacturer code embedded in the Original Test Goup Name (19-5). V1880: The Manufacuar Cade (15-1) mud match the manufacturer code embedded in the Original Test Goup Name (19-5). V1880: The Manufacuar Cade (15-1) mud match the manufacturer code embedded in the Original Test Goup Name (19-5). V1880: The Manufacuar Cade (15-1) mud match the manufacturer code embedded in the Original Test Goup Name (19-5). V1890: The Process Cade (19-5) executi to Y Repect) the Manufacturer Code of the Schmission Autoric Datatismus masch Manufacuar Cade (10-1) of the statism for the two periods sequences. V1800: The Process Cade (10-5) is equal to Y Repect) the Manufacturer Cade of the Schmission Autoric Datatismus muster Manufacturer Cade (10-1) of the statism for the nachemist datast. V1800: The Process Cade (10-5) is equal to Y Repect) the manufacturer Cade of the Schmission Autor Datatismus muster Manufacture Cade (10-1) of the statism for the nachemist datast. V1800: The Process Cade (10-5) is equal to Y Repect) the nachemist datast. V1800: The Process Cade (10-5) is equal to Y Repect) the nachemist datast. |
| | | | | | | | | | | | | | | | | | | | | | | VBR2: If Process Code (VI-5) is equal to 'C (Connection) and Model Year (VI-7) is greater than or equal to 2011, then a second must always each in the system with the same Vahica ID (VI-1). Vahica Configuration (VI-1), and Manufacture Code (VI-1). |
| VI-2 | Vehicle ID | A unique alphanumeric identifier assigned by the manufacturer to each test vehicle. | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails | VehideldentificationText | TRUE | 1 per Test Vehicle Configuration | A(20) | String | 1 | 20 | | | | | Lieht-Dub | Certificatio n Test Data | | Manufactu rer l | Front and | XML | LD-CTD-VI-BR002 LD-CTD-VI-BR031 | VI-8831: If Process Code (VI-0.5) is equal to 'R' (Report) then a record must already exist in the system with the same Vehicle ID (VI-2), Vehicle Configuration Number (VI-3), and Manufacturer Code (VI-1). |
| 114 | Vehicle Configuration | A system-generated number that is assigned to each new unique tost whicle configuration. A mfr code, whicle is, test whicle configuration number can be used for any set study or wapstetualing family, or model year-net just the values enseed into field #s VI-5,VI-6, and VI | TestVehicleInformationSt bmission/TestVehicleInfor mationDetails | VehicleConfigurationNum | | 1 per Test Vehicle | (40) | Utiling | | 10 | | | | | Light-Soly | Certificatio n Test | If VI-3 NEW then done in DB and do not validate. If CORRECT/OAUPOATE then Mtr Code, Vehicle ID, and Vehicle Configuration Number must exist in DB. | Verify if New, otherwise Manufactu I rer i | Back-end if New Front end | | LD.CTD.VI.88002 LD.CTD.VI.88028 LD.CTD.VI.88029 LD.CTD.VI.88029 | West Sector (1) (1) (1) (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2 |
| VI3 | Number | This entired field may be used by | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCor | ber | FALSE | Configuration | N(2) | Integer | | | | 0 | 99 | | Light-Duty | Certificatio | Configuration Number must exist in DB. | fer i | f not New | XML | LD-C1D-VI-BR031 | (VI-2), Vehicle Configuration Number (VI-3), and Manufacturer Code (VI-1). |
| VI4 | Manufacturer Vehicle Configuration Number | manufacturers to track manufacturers internal designations for configurations. EPA doesn't use this field. | figuration Details/VehicleE escription Details | ManufacturerVehicleConfi gutationNumber | FALSE | 1 per Test Vehicle Configuration | N(2) | Integer | | [A | HJNPR | ٥ | 99 | 1 | Light-Duty | n Test Data | | Manufactu rer l | Front end | XML | | VI-BR3: The Original Test Vehicle Model Year (VI-7) must match the model year embedded in the Original Test Group Name (VI- |
| VIð | Original Test Group Name | The actual test group for this test vehicle configuration. | TestVehicteInformationSu bmission/TestVehicteInfor mationDetails/VehicleCor figurationDetails/VehicleC escriptionDetails | TestGroupName | TRUE | 1 per Test Vehicle Configuration | A(12) | Fixed string | 12 | 1 9) 9][12 9 | TV-Y1- (1)[A-2D- (4,11)][0.][A-2D- [[1,6]]? | | | | Light-Duty | Certificatio n Test Data | | Manufactu rer l | Front end | XML | LD-CTD-VI-8R003 LD-CTD-VI-8R005 LD-CTD-VI-8R007 LD- CTD-VI-8R008 | 5) V1895: The Manufacturer Code (V1-1) must match the manufacturer code embedded in the Original Teer Corup Name (V1-5) V1897: The displacement embedded in the Original Teer Corup Name (V1-5) must be a valid number. V1896: The Original Teer V1045: Model Yaer (V1-5) must match the model yaer embedded in the Original Ecoparation Resulting Parts (V1-6) |
| VI-6 | Original Ev aporativ e/Refueling Family Name | The evaporativa/refueling family for this test vahicle configuration. Not applicable for diesel vahicles. | TestVehicleInformationSc bmission/TestVehicleInfor mationDetails/VehicleCor figurationDetails/VehicleE escriptionDetails | Evaporative Refueling Fam HyName | FALSE | 1 per Test Vehicle Configuration | A(12) | Fixed String | 12 | (A 1 9)) 5 9)1 12 | -HJ-NPR- TV-Y1- (1)[A-2D- 9][4][0- [4][A-2D- 9][3] | | | | Light-Duty | Certificatio n Test v Data | | Manufactu rer l | Front end | XML | LD-CTD-VI-8R004 LD-CTD-VI-8R006 LD-CTD-VI-8R009 | Exepandemicklaning Family Name (V4). 1948): "The Munickaning Card (V-1) must match the manufacturer code embedded in the <mark>Original Exepositive Relations</mark> Family Name (V4). V1889): "The concentrative Card (V-1) must be a Valid problem. |
| | | | TestVehicleInformationSc bmission/TestVehicleInfor mationDetails/VehicleCor | | | 1 00/ 10/ | | | | | | | | | | 0.00 | | | | | LD-CTD-VI-BR003 | VI-BR3: The Original Test Vehicle Model Year (VI-7) must match the model year embedded in the Original Test Group Name (VI-5). |
| VI-7 | Original Test Vehicle Model Year | The model year for this test vehicle configuration. | figuration Datails/VehicleD escription Datails | ModelYear | TRUE | 1 per Test Vehicle Configuration | N(4) | feartype (1970- 2100) | 4 | 4 | | 1970 | 2100 | | Light-Duty | n Test Data | | Manufactu rer l | Front end | XML | LD-CTD-VI-8R004 | VI-BR4: The Original Test Vehicle Model Year (VI-7) must match the model year embedded in the Original Evaporative/Refueling Family Name (VI-6). |
| VI-8 | Represented test vehicle make | The represented test vehicle make (also division name) for this test vehicle configuration. | TestVehicternomations: bmission/TestVehicleInfor mationDetails/VehicleCo figurationDetails/VehicleE escriptionDetails TestVehicteInformationSt bmission/TestVehicleInfor | ActualTestVehicleMakeT ext | TRUE | 1 per Test Vehicle Configuration | A(20) | String | 1 | 20 | | | | | Light-Duty | Certificatio n Test Data | This change must be made on Verify front end and back end web screens | Manufactu rer l | Front end | XML | | |
| VI-0 | Represented test vehicle model | The represented test vehicle model (also carline name) for this test vehicle configuration. | bmission/TestVehicleInfor mationDetails/VehicleCor figurationDetails/VehicleE escriptionDetails | ActualTestVehicleModelT ext | TRUE | 1 per Test Vehicle Configuration | A(50) | String | 1 | 50 | | | | | Light-Duty | Certificatio n Test Data | This change must be made on Verify front end and back end web screens | Manufactu Rer I | Front end | XML | | |
| DELETE: VI-10 | Vehicle Fuel Category. | Enter the applicable wohlde fuel congry for this text which subgroups | TestVahistehfermationE utensistionTestVahisteh CentigurationDesile | VehicleFusiDategorylden Hier | FALSE TRUE | | A(3) | Enumeration | | | | | | SF-Einige Fuel SF-Einige Fuel SF-Einie Fall bei promited and spatients de tegetien) SF-Einie Fall bei Part of the second spatients that tender- ter and tender frage of the second spatients that tender- second spatients (Fall bei Second Spatients and tender- ter and tender tender tender tender tender SF-Einie Fall bei Second Spatients SF-Einie Central Central Central SF-Einie Central Central Central SF-Einie Leinie Second Spatients SF-Einie Leinie Sfatients SF-Einie Leinie Sfatients | Light Dury | Certificati on Text Data | Same as 70.4. Note: By changing this field to FALSE (optional) is the schema, it would not have could still be used for Model Years 2010 and 2011. | Manufacto Jac d | From and | XML | NEW | NEW: IF Chighen Task Values Model Year (NF) is task than or equal to 1311; Bask Values Faul Cangery (NFR) is required the 1.1 weaking is to advance the Chighen Task Values Model Year (NF) is grown than 1317. |
| NEW: VI-10.5 | Drive Source | Enter the applicable value for the drive source for this test vehicle configuration. Select "I for fuel cell electric vehicle. | TestVehicleInformationS ubmission/TestVehicleIn ormationDetails/Vehicle ConfigurationDetails/Driv eSourceDetails | r Drive Sourceldentifier | TRUE | 1n per Test Vehicle Configuration | A(1) | Enumeration | | | | | | C = Combustion Engine = Electric Motor + Engine (Rush Combustion Engine and Electric Motor) | Light Duty | Certificati on Test / Data | This field is totally new in VI (however it already exists in the Test Croop dataset but the exameration value of "H-Hybrid" is being detexed in all classes). For model years <2012, this field should be mapped from other existing fields which is why it is a required field. | Manufactu rer l | Front End | XML | NA | NA |

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tor Collection Collection



Blue = Cer I = Misc Text Edits Changes

Parent's I

XML Tes

Basic Multiplicity Data Type

Data Type Min Max Description Length Length. Pattern Digits Value Value

Pink = TBD EPA Data Element

| - | | | 1 | | | | | | | | | | _ | | | | | | | | | | |
|-------------------------------|--|---|--|--|--------------|--|--------------------|--------------------------|---------------|----------------|-------------|------------------------------|---------------------------------|---------------------------------|---|----------------------|--|--|-------------------------------|---------------------|--------------------|--|--|
| Pink = TBD | Orange = Changes Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Change | Red = Misc Text Edits | Blue = Certification Changes | | | | | | | | | | | | | | | | | | | |
| EPA Data Element Number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Description | Min Length | Max_ Length | Pattern Dis | otal Fraction gits Digits | nal <u>Mir</u> i <u>Valu</u> | n <u>Max</u> at <u>Value</u> | Allowed Values | Industry | Process | Notes/Questions | Originator | Collection Point | Collection Type | Applicable Business Rules | <u>Validation Rules</u> |
| NEW VI-10.6 | Hybrid Indicator | Verify assigned based on values selected for Drive Source (VI-10.5 | Tes WehicleInformationS ubmission/TestVehicleInf omationDetails/EPAGen eratedTestVehicleDetails | HybridVehicleIndicator | TRUE | 1 per Test Vehicle Configuration | A(1) | Enumeration | | | | | | | N. No. Y - Yes | Light Dut | Certificati on Test / Data | NEW BE Varify Assigned Rule: If Drive Source (VI-0.3) is equal to "Combustion Endeated (VI-0.6) equals "Ves.", enterwise it equals "No". For mapped from other existing fields which is why it is a required field. | Verity | Back End | Assigned | NEW | |
| NEW: VI-11.1 | Funița) | Ener all applicable hulls for this Net velicle configuration. | TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails/Devi eSourceDetails | Fuelldentifier | TRUE | 1n per Drive Source per Test Vahicle Configuration | A(3) | Enumeration | | | | | | | 0 - Osadina 0 - Statul - Statul - Osadina CR2 - Osadina CR2 - Osadina CR2 - Osadina CR2 - Osadina - Osadina - Osadina - Exection - Osadina E Statutina - Osadina - Osadina - Osadina - Exection - Osadina - Osadina - Osadina - Osadina | Light-Dut | Certificati on Test / Data | For model years +012, bits field should be mapped from Fuelt and Fuelt Fields which is mitly the a required field. LCD/DVH8091: Set York Justigned Berth Ref a Vield Yaha. | Manufactu rer | Front end | XML | NEW: LD.CTD-VI-68052 NEW: LD.CTD-VI-88053 NEW: LD.CTD-VI-88053 NEW: LD.CTD-VI-88054 NEW: 5 | NDW, IF Drive Sharea (1918.3) is equal to "Combustion Engine", Pair (1911.1) can not equal "Electricity" NDW. IF Drive Sharea (1918.3) is equal to "Electric Mane", Pair (1911.1) mait equal "Electricity", "Adebgar", or "Methane", NEW. "25" (Barrey Electric) and "Mo" (in Applicable) are not allow able values for Faeld) (1911.1) 49.81117101.is essa-aite-aite-for for Applicable) are not allow able values for Faeld) (1911.1) |
| NEW: VI-11.2 | Multiple Fuel Storage- Separate or Together | If multiple fuels are selected for Fuel(s), are the fuels stored separately or together for this test vehicle configuration? | TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails | MultipleFuelStorageMet odidantifier | f FALSE | 1 per Test Vehicle Configuration | A(8) | Enumeration | | | | | | | S - Fuels Stored Separately T - Fuels Stored Together | Light-Dut | Certificati on Test Data | | Manufactu rer | Front end | XML | NEW: LD-CTD-VI-BR035a NEW: LD-CTD-VI-BR035b | NEW. If more than one foot is selected for Fuel(s) (VI-11.) and if Drive Source (VI-10.5) equals "Combustion Engine", then Multiple Fuel Storage (VI-11.2) is required, otherwise Multiple Fuel Storage (VI-11.2) is not allowed. |
| NEW: VI-11.3 | Multiple Fuel Combustion- Separate or Together | If multiple fuels are selected for Fuel(s), are the fuels combusted separately or together for this test vehicle configuration? | TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails | MultipleFuelCombustion MethodIdentifier | FALSE | 1 per Test Vehicle Configuration | A(8) | Enumeration | | | | | | | S- Fuels Combusted Separately T- Fuels Combusted Together | Light-Dut | Certificati on Test / Data | | Manufactu rer | Front end | XML | NEW: LD-CTD-VI-BR038 | NEW. If Drive Source (V140.5) is equal to "Combustion Engine" and if more than one of the combustible fuels is selected for Faulty (V141.1) (Combustible Fixels = Gasoline, Disael, Menhand, Ethanol, CHG, LNG, LPG), then Multiple Fixel Combustion (V141.3) is required and is optional if "Hydrogen" is selected for Faulty) (V141.1). |
| NEW: VI-11.4 | Fuel Cell Indicator | Is this test vehicle configuration equipped with a Fuel Cell? | TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails | FuelCellIndicator | FALSE | 1 per Test Vehicle Configuration | A(1) | Enumeration | | | | | | | N - No Y - Yes | Light-Dut | Certificati on Test Data | | Manufactu rer | Front end | XML | NEW: LD-CTD-VI-BR037 | NEW: If Drive Source (VI-0.5) is equal to "Electric Mooor", then Fuel Cell Indicator (VI-11.4) is required, otherwise it is optional. |
| NEW: VI-11.5 | Rechargable Energy Storage System Indicator | Is this test vehicle equipped with rechargable energy storage system? | TestVehicleInformationS a ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails | RechargeableEnergySto ageSystemIndicator | FALSE | 1 per Test Vehicle Configuration | A(1) | Enumeration | | | | | | | N-No Y-Yes | Light-Dut | Certificati on Test Data | | Manufactu rer | Front end | XML | NEW: LD-CTD-VI-BR038 | NEW: If Drive Source (VI-10.5) is equal to "Electric Moor", then Rechargable Energy Storage System Indicator (VI-11.5) is required, otherwise it is optional. |
| NEW: VI- 11.6 | Rechargeable Energy Storage System -Davies | Enter the applicable type of energy storage device for this test group. | TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails | RechargeableEnergySto ageDeviceIdentifier | FALSE | 1 per Test Vehicle Configuration | A(2) E | Enumeration | | | | | | | B = Bansey(s) C = Capacitor BC = Bunory and Capacitor H = Hydrautic OT = Other | Light Dut | Certificati on | | Manufactu rer | Front End | XML | NEW: LD-CTD-VI-BR039 | Required I Drive Source (N16.5) equals 👻 (Electric Motor) or Il Hybrid Indicator (V14.8) equals 'yes' or Il Fuel Call Indicator (V14.4) equals 'yes', otherwise not allowed. Required 3.70.4 – 307, 517 or 557. |
| NEW: VI- 11.7 | Rechargeable Energy Storage System, if Other | Enter a description of the energy storage device for this test group "other" selected. | TestVehicleInformationS ubmission/TestVehicleInf if ormationDetails/Vehicle ConfigurationDetails | RechargeableEnergySto ageDeviceOtherText | FALSE | 1 per Test Vehicle Configuration | A(30) 5 | String | 1 | 30 | | | | | | Light Dut | Certificati on | | Manufactu rer | Front End | XML | NEW: LD-CTD-VI-BR040 | Required & Rechargeable Energy Storage System (VI-11.8) equals "Other", otherwise optional. |
| NEW: VI-11.8 | Off-board Charge Capable Indicator | Select "Yes" if this test vehicle configuration is equipped with an electric motor that is capable of being charged of-board the vehicle, otherwise select "No". | TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/Vehicle ConfigurationDetails | OffBoardChargeCapabili yIndicator | it FALSE | 1 per Test Vehicle Configuration | A(1) | Enumeration | | | | | | | N-No Y-Yes | Light-Dut | Certificati on Test Data | | Manufactu rer | Front end | XML | NEW: LD-CTD-VI-8R041 | NEW: If Drive Source (VI-10.5) is equal to "Electric Moor", then Of-Board Charge Capable Indicator (VI-11.8) is required, otherwise It is optional. |
| DELETE: VI-11 | Faul-1 | Enter the applicable fiel for this- test vehicle configuration | Testifahislehifarmation& ukmission/Testifahislehif ermation/Details/Vehisle Cenfiguration/Details | Fueltidentifee | FALSE | | A03 | <u>Enumeration</u> | | | | | | | G Constantine Constantine III Constantine Constantine IIII Compared National Class IIII Compared National Class IIII Constantine IIII Constantine | Light Due | Contilisati an Tost / Doss | | Manufactu Ref | Front and | XML | NEW Delete: 14 BR15 | NEW: 17 Chigaint Tast Vahicia Madal Yaor (197) ia laas daan or aqual ia 2011; daan Fuel 1 (1911) ia naquinal, adamvisa ista Inte Allowed. Taki is anta walat walat aka Fuel 4 ia ia antiyu shifi dar Fuel 4. |
| DELETE: VI-12 | ful 2 | Enter the second fust if the "vehicle first category" for this te vehicle second figuration is the fest, ther fuel hybrid, dust fuel, or bifue | TectVehiclehformationS Lutamission/ToctVehiclehf ormationDetails/Vehicle ConfigurationDetails | Fuel2ldemifier | FALSE | | *177 | Enumeration | | | | | | | H Hastanai E | Ligto Dur | Contilicati on Toca y Data | | Hannafastu re r | from en | | DELETE: VI DR12 | August of Physicia Fact Category - 17, 17, 57 or 57, 50 outsing on allowed |
| VI-13 | Drive Mode While Testing | Enter the applicable test drive code for the way this test vehicle configuration was's to be tested. | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails | TestDriveCode | TRUE | 1 per Test Vehicle Configuration | A(1) | Enumeration | | | | | | | 4 = 4-wheel Drive F = 2-wheel Drive, front R = 2-wheel drive, saar P= Part-Sime 4-wheel drive A = All wheel drive | Light-Dut | Certificatio n Test / Data | 2 | Manufactu ser | Front end | XML | | |
| | | Enter the applicable shift indicator light usage code. One usage code | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon | ShiftIndicatorLightUsagel dentifier | I TRUE | 1 per Test Vehicle Configuration | A(1) | Enumeration | | | | | | | 1 - Not equipped 2 - Equipped, not shifted by SIL 3 - Equipped, shifted by SIL 5 - Equipped, shifted by survey schedule. 4 = No aged components, 4k emission or fuel economy data | Light-Dut | Certificatio n Test | | Manufactu | Front end | XML | | |
| VI-15 | Aged emission component usage | per test vehicle configuration. Enter the age of the emission control system components (in thousands of miles) or enter '4 – tho aged components' if this test vehicl configuration does not have aged components. | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails | AgedComponentUsageId entifier | i TRUE | 1 per Test Vehicle Configuration | A(3) | Enumeration | | | | | | | vehicle was used 50 = 500k aged components used on test vehicle 100 = 100k 120 = 120k 150 = 150k | Light-Dut | Certificatio n Test / Data | | Manufactu | Front end | XML | | |
| VI-16 | Odometer correction – initial | | bmission/TestVehicteInfor mationDetails/VehicteCon figurationDetails/Odomet erCorrectionDetails | CorrectionInitialValue | TRUE | 1 per Test Vehicle Configuration | N(7,1) | Decimal | | | | 7 1 | 0.0 | 9999999.9 | | Light-Dut | Certificatio n Test / Data | | Manufactu Ker | Front end | XML | | |
| VI-17 | Odometer correction factor | Enter the multiplicative odometer conection factor. | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/Odomet erCorrectionDetails TestVehicleInformationSu | CorrectionFactorValue | TRUE | 1 per Test Vehicle Configuration | N(5,4) | Decimal | | | | 5 4 | 0.0 | 9.9999 | 4' = System Miles= (Test odometer reading "Correction | Light-Dut | Certificatio n Test / Data | 2 | Manufactu Ker | Front end | XML | | |
| VI-18 | Odometer correction sign | Enter the odometer correction sign- plus or minus. | bmission/TestVehicleInfor | CorrectionSignIdentifier | TRUE | 1 per Test Vehicle Configuration | A(1) | Enumeration | | | | | | | * = system Minéer (1 sis doorneer reading "Correction factor) + Initial system miles, * = System miles = (Test odorneter reading - initial system miles) * Correction factor. | Light-Dut; | Certificatio n Test / Data | | Manufactu Ker | Front end | XML | | |
| VI-19 | Odometer Correction units code | Enter the applicable units for the edometer correction factor-miles or illometers. Enter the applicable engine code | | CorrectionUnitsCode | TRUE | 1 per Test Vehicle Configuration | A(1) | Enumeration | | | | | | | M =Miles K = Kilometers | Light-Dut | Certificatio n Test / Data | | Manufactu rer | Front end | XML | | |
| VI-20 | Engine Code | Enter the applicable engine code assigned by the manufacturer for thi test vehicle configuration. Enter the applicable rated horsepower for this test vehicle configuration. Reference SAE 12723 and SAE J1340. | figuration Details TestVehicleInformationSu | EngineCodeText | TRUE | 1 per Test Vehicle Configuration 1 per Test Vehicle | A(14) | String | 1 | 14 | | | | _ | | Light-Dut | Certificatio n Test / Data Certificatio | a a | Manufactu rer | Front end | XML | | |
| | | Enter the applicable engine displacement in liters for this test | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon | EngineRatedHorsePower Value EngineDisplacementValu | TRUE | Vehicle Configuration 1 per Test Vehicle Configuration | N(4) | Integer | | | | | 1 | 9999 | | Light-Dut | n Test / Data Certificatio n Test | , , | Manufactu | Front end | XML | | |
| | Displacement Air Aspiration Method | whicle configuration. In Liters, Enter the applicable air aspiration method for this test vehicle configuration. | figuration Details TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/AirAspira tionDetails | e AirAspirationMethodiden fier | TRUE TRUE | Configuration 1 per Test Vehicle Configuration | N(5,3) | Decimal | | | | 5 3 | 0.00 | 99.999 | NA-Naturally aspirated TC-Turbocharged SC-Supercharged TS-Turbocharged-Supercharged OT-Other | Light-Dut | / Data Certificatio n Test / Data | | Rer Manufactu Rer | Front end | XML XML | | |

| Pink = TBD | Orange = Changes Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Certification Changes | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|--|--|--|----------|---|--------------------|--------------------------|---------------|---------------|-----------|----------------|------------------------|--------------|---|------------|---------------------------------|--|------------------|---------------------|--------------------|--|--|
| EPA Data Element Number | Long Name | Description | Parent's Name | XML Teg | Required | Multiplicity | Basic Data Type | Data Type Description | Min Length | Max Length | Pattern 0 | fotal Fraction | al <u>Min</u> Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Collection Point | Collection Type | Applicable Business Rules | Validation Rules. |
| | | | TestVehicleInformationSu bmission/TestVehicleInfor | | | | | | | | | | | | | | | | | | | | |
| VI-24 | Air Aspiration Method if | Enter a description of the air aspiration method if "other" is selected for Air Aspiration Method. | mationDetails/VehicleCon figurationDetails/AirAspina tionDetails | AirAspirationMethodOther | FALSE | 1 per Test Vehicle | | String | | | | | | | | | Certificati n Test y Data | 2 | Manufactu rer | | XML | LD-CTD-VI-8R013 | VI-BR13: If Air Aspiration Method (VI-23) is equal to 'OT' (Other) then Air Aspiration Method If Other (VI-24) is required, otherwise it |
| 11-04 | | anistiko kei Aur Augenatuon seemoo. | II ONLA ITALIIS | Text | PALSE | Comparation | 4(30) | Sting | | 30 | | | | | | Light-Duty | y Luiba | | Ner | Pront end | MIL | EDCID-HONDI3 | n intransmis VI BRI K. If Air Aspinston Method (VI-33) is equal to TC (Tubooharped, SC (Supercharged, TE (Tubo and Supercharged) or OT (Drick, the Number of Air Aspinston Devices (N 3) is equal, charantal in multi be equal to VF (Pasant. VI-BRI F. If Air Aspinston Method (VI-33) is not equal to NK (Nasurally Aspinston), then Number of Air Aspinston Devices (N-25) is required and cannot be equal to V. |
| | | | TestVehicleInformationSu bmission/TestVehicleInfor | | | | | | | | | | | | | | | | | | | LD-CTD-VI-BR014 | VI-BR17: If Air Appiration Device Configuration (VI-26) is equal to 'W (Single), then Number of Air Appiration Devices (VI-25) must be '1'. |
| VI-25 | Number of Air Aspiration Devices | If not naturally aspirated, enter the number of Air Aspiration Devices. Default is "0". | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/AirAspira tionDetails TestVehicleInformationSu | AirAspirationDeviceCount | FALSE | 1 per Test Vehicle Configuration | N(2) | Integer | | | | | | 99 | | Light-Duty | Certificati n Test y Data | 5 | Manufactu | Front end | XML | LD-CTD-VI-8R014 LD-CTD-VI-8R015 LD-CTD-VI-8R017 LD-CTD-VI-8R018 | VI-BR18: If Air Aspiration Device Configuration (VI-26) is not equal to 'N' (Single), then Number of Air Aspiration Devices (VI-25) must be greater than '1', if present. |
| | | Enter the applicable air aspiration | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon | | | | | | | | | | | | N=Single | | | | | | | | |
| VI-26 | Air Aspiration Device Configuration | device configuration for this test | figurationDetails/AirAspira tionDetails | AirAspirationConfiguratio nIdentifier | FALSE | 1 per Test Vehicle Configuration | A(2) | Enumeration | | | | | | | P=Parallel 8=Series PS≂Both Parallel and Series | Light-Duty | n Test y Data | 2 | Manufactu rer | Front end | XML | LD-CTD-VI-8R016 | VI-BR16: If Air Aspiration Method (VI-23) is equal to TC: (Turbocharged), SC: (Supercharged), TS: (Turbo and Supercharged) or OT (Other), then Air Aspiration Device Configuration (VI-26) is required, otherwise it is not allowed. |
| | | Enter the applicable charge sir cooler (also known as inter-cooler) type for this test vehicle | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon | | | 1 per Test Vehicle | | | | | | | | | A=Air L=Liquid | | Certificati n Test | | Manufactu | | | | |
| VI-27 | Charge Air Cooler Type | rype for this bas vehicle configuration. Enter any additional comments about the emission control devices installed on this test vehicle configuration. | figuration Details TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon | ChargeAirCoolendentifier | FALSE | Configuration | A(1) | Enumeration | | | | | | | N=N/A | Light-Duty | y Data Certificati | | ner. | Front end | XML | LD-CTD-VI-8R025 | VI-BR25: If Air Aspiration Method (VI-23) is not equal to 'NA' (Naturally Aspirated), then Charge Air Cooler Type (VI-27) is required. |
| VI-28 | | | mationDetails/VehicleCon figurationDetails | EmissionsControlDeviceC ommentsText | FALSE | 1 per Test Vehicle Configuration | A(1000) | String | 1 | 1000 | | | | | | Light-Duty | n Test y Data | | Manufactu rer | Front end | XML | | |
| VI-29 | Curb weight | Enter the curb weight in pounds for this tark vahide configuration. Curb wight is defined as the actual or mfrs estimated weight of the vahide in operational satus with all sandate equipment and weight of level at nominal tark capacity and the weight of optional equipment computed in accordance with CFR86.082-24. | a TestVehicleInformationSu bmission/TestVehicleInfor mationDesailsVehicleCon figurationDestailsVehicleS pecificationsDetails | CurbWeightValue | TRUE | 1 per Test Vehicle Configuration | N(5) | Integer | | | | | 0 | 14000 | | Light-Duty | Cartificati n Test y Data | | Manufactu Ref | Front end | XML | LD-CTD-VI-8R019 LD-CTD-VI-8R020 | vi BR12: Equivalent Teat Weight (VI-30) must be greatert than Curb Weight (VI-30) VI-BR20: Gross Vahidat Weight Baining (VI-32) must be greatert than Curb Weight (VI-30). |
| VI-30 | | Enter the ETW, equivalent test weight, in pounds for this sear whick configuration. ETW is defined as the weight within an inertia weight class which is used in the dynamometer testing of a whick and which is based on its loaded vehicle weight or adjusted to adjusted loaded wehicle weight in accordance with the provisions of | TestVehideInformationSu bmission/TestVehideInfor mationDetails/VehideCon figurationDetails/VehideS peoficiationDatails | EquivalentTestWeightVal ue | TRUE | 1 per Test Vehicle Configuration | N(5) | Enumeration | | | | | | 14000 | 1000, 1132, 1150, 1375, 1500, 1232, 1700, 1877, 1000, 1212, 1250, 1275, 1500, 1232, 2700, 1275, 1000, 1212, 1250, 1275, 1500, 1252, 2700, 1275, 1000, 1512, 1250, 1277, 1500, 1250, 1000, 1500, 1000, 1200, 1200, 1100, 11500, 1100, 1200, | Light-Duty | Certificati n Test y Data | , | Manufactu | Front end | XML | LD-CTD-VI-BR019 | VI-8113 Equivalent Teat Weight (VI-30) mur bag gearer Bain Cade Weight (VI-29) |
| | | Enter the adjusted, loaded vehicle weight in pounds for this test vehicle | | | | | | | | | | | | | | | | | | | | | |
| | | LPHOR. 1803-01. Enter the adjusted, loaded vehicle weight in pounds for this test vehicle configuration. ALVW is defined as the average of the vehicle curb weight and prose vehicle weight rating in accordance with the | TestVehicleInformationSu bmission/TestVehicleInfor | | | 1 per Test Vehicle | | | | | | | | | | | Certificati | This field should be system generated. ALVW is defined as the average of the vehicle curb weight and the gross vehicle | | | | | |
| VI-31 | ALVW | tating in accordance with the provisions of CFR86.1803-01. | mationDetails/EPAGener atedTegVehicleDetails | | FALSE | Vehicle Configuration | N(5) | Integer | | | Adjus | edLoadedVehi | de 0 | 14000 | | Light-Duty | n Test y Data | vehicle curb weight and the gross vehicle weight. | Verity | Backend | Assigned | | |
| | | provisions of CP-NBS.1803-01. The loaded vehicle weight in pounds will be calculated by Verify for this test vehicle configuration. LVW is defined as the vehicle cutb weight plus 300 pounds. | TestVehicleInformationSu bmission/TestVehicleInfor | | | 1 per Test Vehicle | | | | | | | | | | | Certificati | This field should be system generated. LVW is defined as the vehicle cutb weight + 300 | | | | | |
| VI-32 | LVW | LVW is defined as the vehicle cutb weight plus 300 pounds. Enter the miss vehicle weight in | mationDetails/EPAGener atedTegVehicleDetails | | FALSE | Configuration | N(5) | Integer | | | ь | adedVehicleW | laig O | 14000 | | Light-Duty | n Test Data | is defined as the vehicle cutb weight + 300 pounds. | Verily | Backend | Assigned | | |
| VI-33 | Gross vehicle weight rating (GVWR) | Enter the gross vehicle weight in pounds for this test vehicle configuration. Gross which weight is defined as the value specified by the mfr as the maximum design loaded weight of a single vehicle. | TestVehideInformationBu bmission/TestVehideIonfor mationDeasis/VehideCon figurationDeatis/VehideCon pecificationDeatis/ PecificationDeatis/ TestVehideInformationSu bmission/TestVehideCon figurationDeatais/VehideCon pecificationDeatais/ PecificationDeatais/ | GrossVehicleWeightRatin oValue | FALSE | 1 per Test Vehicle Configuration | N(5) | Integer | | | | | | 14000 | | Light-Duty | Certificati n Test v Data | | Manufactu Rer | Front end | XML | LD-CTD-VI-BR020 | VI BR20: Gross Vehicle Weight Rating (VI-53) must be greater than Curb Weight (VI-29). |
| | | | TestVehicleInformationSu bmission/TestVehicleInfor motionDetails@/obiolocon | | | | | | | | | | | | | | Continues | | | | | | |
| VI-34 | NV Ratio | Enter the applicable N/V ratio for this test vehicle configuration. | figurationDetails/VehicleS pecificationsDetails | NVRatioValue | TRUE | 1 per Test Vehicle Configuration | N(4,1) | Decimal | | | | 4 1 | 0.0 | 999.9 | | Light-Duty | n Test y Data | | Manufactu rer | Front end | XML | | |
| | | | bmission/TestVehicleInfor | | | 1 per Test | | | | | | | | | | | Certificati | 5 | | | | | |
| VI-35 | Axle Ratio | Enter the axle ratio for this test vehicle configuration. | mationDetails/VehicleCon figurationDetails/VehicleS pecificationsDetails | AxleRatioValue | TRUE | 1 per Test Vehicle Configuration | N(3,2) | Decimal | | | | 3 2 | 0.00 | 9.99 | | Light-Duty | Certificati n Test y Data | | Manufactu rer | Front end | XML | | |
| VI-38 | Transmission Type | Enter the transmission type for this test vehicle configuration. | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/Tearamis sionSpecificationsDetails | LightDutyTransmissionTy peldentifier | TRUE | 1 per Test Vehicle Configuration | A(3) | Enumeration | | | | | | | k = Automatic Mar = Automatic Mar = Manual SA = Semi-Automatic DYT = Continuously Variable CYT-Selectable Continuously Variable (e.g. CVT with Sedias) DT = Other | Light-Duty | Certificati n Test y Data | | Manufactu Rer | Front end | XML | LD-CTD-VI-8R023 LD-FE-GL-8R033 LD-CTD-VI-8R021 | v1882. If Despite Date (M.58) is equit to 'Y (Ye), their Technologies Type (M.58) mult is equid to 'Y (Annul), V1 8925. (Maning off), chief about the acapted) filte Transmission Type (G.47) equid X, Y, or CVT, each Te white used for advant to ensure if the lattice for both how its else ref. Technologies Type (G.47) 9926. (The Section V), private (G.47) and the section of the technologies (G.47) and the section of the section of the constraint of the section of the section of the technologies (G.47) and the section of the sect |
| | | Enter a description of the | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon | | | 1 per Test | | | | | | | | | | | Certificati | | | | | | |
| VI-37 | Transmission Type, if "Other" Description | Enter a description of the transmission type if "Other" is selected. | mationDetails/VehicleCon figurationDetails/Transmis sionSpecificationsDetails | LightDutyTransmissionTy peOtherText | FALSE | 1 per Test Vehicle Configuration | A(30) | String | 1 | 30 | | | | | | Light-Duty | n Test y Data | | Manufactu rer | Front end | XML | LD-CTD-VI-8R021 | VI-BR21: If Transmission Type (VI-36) is equal to 'OT' (Other), then Transmission Type Other Description (VI-37) is required. |
| VI-38 | Transmission Lockup | Is the transmission on this test vehicle configuration equipped with lockup? | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/Terramis sionSpecificationsDetails | TransmissionLockupIndica | TRUE | 1 per Test Vehicle Configuration | A(1) | Enumeration | | | | | | | Y=Yes ₩N0 | Light-Duty | Certificati n Test v Data | 2 | Manufactu Rer | Front end | XML | LD-CTD-VI-8R022 | V18R22: If Transmission Type (V138) is equal to 14"; then Transmission Lodup (V138) must be equal to 14 (No). |
| | | Is the transmission on this test vehicle configuration equipped with a creeper gear? | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/Tearsmis | TransmissionCreeperGear | | 1 per Test Vehicle | | | | | | | | | Y=Yes | | Certificati n Test y Data | 5 | Manufactu | | | | |
| VI-39 | Creeper Gear | a creeper gear? Enter the number of transmission nears on this tast which o | sionSpecificationsDetails | Indicator | TRUE | Configuration | A(1) | Enumeration | | | | | + | | NeNo | Light-Duty | y Data | | No.r | Front end | XML | | |
| VI-40 | Number of Transmission Gears | a cheeper gear? Enter the number of transmission gears on this test vehicle configuration. If this vehicle is equipped with a "transmission type" of "CVT", enter "1" for the number o gears. | bmission/TestVehicleInfor mationDetails/VehicleCon f figurationDetails/Transmis sionSpecificationsDetails | TransmissionGearCount | TRUE | 1 per Test Vehicle Configuration | N(2) | Integer | | | | | 1 | 99 | | Light-Duty | Certificati n Test y Data | | Manufactu Rer | Front end | XML | LD-CTD-VI-BR024 | VI 8R24: If Transmission Type (VI-38) is equal to 'CVT' (Continuously Variable), then Number of Transmission Gears (VI-40) must be equal to 'T. |
| VI-40.5 | Test Procedure Dynamometer Coefficients Category | Select all applicable test procedure dynamometer coefficients categories for which target and as coefficients must be specified for thi test vehicle (FTP/Hw, Cold CD, and/or US08). None- Target and as coefficients must be entered for each selected test procedure. | s TestVehicleInformationSu braission/TestVehicleInfor t mationDetails/VehicleCon figurationDetails/VehicleCon etCoefficienDetails | TestProcedureDynamome terCoefficientsCategory | TRUE | 1n per Test Vehicle Configuration | A(7) | Fourmeration | | | | | | | Need to change the enumeration list in the schema.) CHE = Cliy/HghwayEvap OxiCO = Codd CO JS06 = US06 | Light-Duty | Certificati n Test y Data | Need to add a column to the test procedue table that will be used to cross reference ach test procedure to the 3 sea procedure dyno coefficients categories. This will be used for EPA confinatory testing to select the connect target and set coefficients depending on which tast procedure is going to be conducted by the lab. | Manufactu | Front end | XML | | |
| | | | TestVehicleInformationSu | | | 1# of selected | | | | | | | | | | | | | | | | | |
| VI-41 | Target Coefficient A | Enter the target A-term coefficient from text trackforce vs. velocity equation for thistest vehicle configuration. (bf) | bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/TargetS etCoefficientDetails | TargetCoefficientAValue | TRUE | test procedures per Test Vehicle Configuration | N(6,3) | Decimal | | | | 6 3 | -1000 | 999.999 | | Light-Duty | Certificati n Test y Data | | Manufactu rer | Front end | XML | | |
| VI-42 | Target Coefficient B | Enter the target B-term coefficient from test trackforce vs. velocity equation for this test vehicle configuration. (bt/mph) | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/TargetS etCoefficientDetails | TargetCoefficientBValue | TRUE | 1# of selected test procedures per Test Vehicle Configuration | N(6,5) | Decimal | | | | 6 5 | -10 | 9.99999 | | Light-Duty | Certificati n Test y Data | 2 | Manufactu rer | Front end | XML | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| Pini TB | New | ge = Changes Due To / Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Certification Changes | | | | | | | | | | | | | | | | | | |
|------------|---------------------------------|--|---|--|---------------------------------|----------|---|--------------------|--------------------------|---------------|------------------------|-----------------|--------------------------------|--------------|----------------|-----------|----------------------------------|---|------------------|-----------|------------|---------------------------|--|
| EPA Elem | nt. | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Dete Type | Data Type Description | Min Length | Max Length. Pattern | Total Digits | Fractional Min Digits Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator | | Collection | Applicable Business Rules | Validation Rules |
| | | | | | | | | | | | | | | | | | | | | | | | |
| VI- | Target 0 | | Enter the target C-term coefficient from test track force vs. velocity equation for this test vehicle | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails/TargetS etCoefficientDetails | TargetCoefficientCValue | TRUE | 1# of selected test procedures per Test Vehicle Configuration | N(7,6) | Decimal | | | 7 | 6 -10 | 9.99999 | | Light-Dut | Certificatio n Test y Data | | Manufactu rer | Front end | XML | | |
| | EPA-Ca Load H: 5 Coeffici | forsepower (for C-H-E | Verify calculated total road load horsepower (TRLHPS0) based on C- He Eurget coefficients | TestVehicleInformationS ubmission/TestVehicleInf ormationDetails/EP AGen enabdTestVehicleDetails | TotalRoadLoadHorsepow | FALSE | 1 per Test Vehicle | | Decimal | | | 3 | 1 0 | 99.0 | | Light Dut | Certificati on Test | Verify will use the following equations for CityHighr ayEv ap Coefficients: Total Read Load Horsepower # (A + Strik - 2500c) / 7.5 Where: ArTarget Coefficient Q(H-42) CrTarget Coefficient Q(H-42) ASTM Konded to 1 decimal Jakae | Verity | Back End | | LD-CTD-VI-689642 | P. Bat Procedure Dynamous Controlling Computy (144.3) * "CR4" (Dynhighnaydf vagi fan 174 Oskuland Bad Raaf |
| VI-4 | | E | EPA derived or manufacturer supplied att A-term coefficient from dynamometer force vs. velocity equation for this test vehicle | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDatails/TargetS | | TRUE | Configuration | N(3,1) N(6,3) | Decimal | | | 6 | | 993.9 | | Light Dut | Certificatio n Test | | Manufactu Rer | Front end | | LD-C1D-VI-88042 | Call Moragener (N-4.5.) is required, othere is not allowed. |
| VI- | Set Coe | 5 6 | supplied set B-term coefficient from dynamometer force vs. velocity equation for this test vehicle | TestVehideInformationSu bmission/TestVehideInfor mationDetails/VehideCon ligutationDetails/TargetS etCoefficientDetails | SetCoefficientBValue | TRUE | 1# of selected test procedures per Test Vehicle Configuration | N(6,5) | Decimal | | | 6 | 5 -10 | 9.99999 | | Light-Dut | Certificatio n Test y Data | | Manufactu Rer | Front end | XML | | |
| VI- | Set Coe | 3 | supplied set C-term coefficient from dynamometer force vs. velocity equation for this test vehicle configuration. (bf/mph**2) | | SetCoefficientCValue | TRUE | 1# of selected test procedures per Test Vehicle Configuration | N(7,6) | Decimal | | | 7 | 6 -10 | 9.99999 | | Light-Dut | Certificatio n Test y Data | | Manufactu Rer | Front end | XML | | |
| VI- | Testve | | | TestVehicleInformationSu bmission/TestVehicleInfor mationDetails/VehicleCon figurationDetails | | FALSE | 1 per Test Vehicle Configuration | A(1000) | String | 1 | 1000 | | | | | Light-Dut | Certificatio n Test y Data | | Manufactu ser | Front end | XML | | |

| EPA Data Element Number | | Description | Parent's Name | XML Tag | Required Multiplicity | Basic Data y Type | Data Type Description | <u>Min</u> Length L | Max Length Pi | Total Fraction attern Digits al Digits | <u>Min</u> Value | <u>Max</u> Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Colle ction | Collec tion Type | Applicable Business Rules | Validation Rules |
|----------------------------------|---|---|--|--------------------------------------|-----------------------|-------------------------|--------------------------|------------------------|----------------------------|--|---------------------|---------------------|--|------------|---|-----------------|---------------------|------------------|------------------------|---|--|
| Fuel Pri | perues | Not required for | test fuel type equal to diese | n, nyarogen or elec | tric. | | | | | | | | | | | | | | | | FP-BR21: If the Process Code (FP-0.5) is equal to 'C' (Correction) then the there cannot be any active task, which reference these fuel properties, that are included which there are in any locked and active Certificate Summary information Reports (CSIs) which reference these Net properties . |
| FP-0.5 | Process Code | Select the desired process code for the current submission. | FuelPropertiesSubmission/F uelPropertiesInformationDeta Is | ainformationProcess Code | TRUE | A(1) | Enumeration | 1 | 1 | | | | N = New dataset C = Correction of existing Verify dataset | Light-Duty | Certification Test Data | | Manufacture | Front r End 2 | XML | LD-CTD-FP-BR021 LD-CTD-FP-BR023 | FP-BR23: If Process Code (FP-0.5) is equal to 'C' (Correction) then tehre cannot be an active Test Information Dataset with the same Fuel Batch ID (FP-2), Fuel Batch Calibration Number (FP-3), and Manufacturer Code (F 1). EP-RR1: Manufacturer Code (FP-1) must exist in the system |
| | | | | | | | | | | | | | | | | | | | | | FP-BR1: Manufacturer Code (FP-1) must exist in the system. FP-BR2: II Process Code (FP-0.5) is equal to R' (Report) or 'C' (Correction) then a record must already exist in the system with the same Fuel Batch ID (FP-2), Fuel Batch Calibration Number (FP-3), and Manufacturer Code (FP-1). |
| | | | | | | | | | | | | | | | | | | | | | FP-BR19: If the Process Code (FP-0.5) is equal to 'R' (Report) the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (FP-1) of the dataset for which the report was requested. |
| | | The 3-character alphanumeric code assigned by EPA to each manufacturer. | | | | | | | | | | | | | | | | | | | FP-BR20: If the Process Code (FP-0.5) is equal to 'N' (New) or 'C' (Correction) the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (FP-1) of the dataset for which the report was requested. |
| FP-1 | Manufacturer Code | For mfr tests- this will be derived from user's CDX user account. Otherwise it will | FuelPropertiesSubmission/F uelPropertiesInformationDeta | aEPAManufacturerC | TRUE | A(3) | Fixed string | 3 | 3 | A-Z0- 9{3} | | | | Light-Duty | Certification Test Data | | Verify | Front 2 | | LD-CTD-FP-BR002a LD-CTD-FP-BR002b LD-CTD-FP-BR019 | FP-BR22: If the Process Code (FP-0.5) is equal to 'N' (New) then a record cannot already exist in the system with the same Fuel Batch ID (FP-2), Fuel Batch Calibration Number (FP-3), and Manufacturer Code (FP-1) FP-BR23: II Process Code (FP-0.5) is equal to C' (Correction) then there cannot be an active Test Information Dataset with the same Fuel Batch ID (FP-2), rue Batch Calibration Number (FP-3), and Manufacturer Code (F- 1). |
| | | | | | | | | | | -1(-) | | | | | | | | | | | PP-BR2: If Process Code (FP-0.5) is equal to 'R' (Report) or 'C' (Correction) then a record must already exist in the system with the same Fauel Batch ID (P-2), Fuel Batch Calibration Number (FP-3), and Manufacturer Code (FP-1). |
| FP-2 | Fuel batch ID | Enter the assigned fuel batch ID for this fuel batch. | FuelPropertiesSubmission/F uelPropertiesInformationDeta | ai FuelBatchldentifier | TRUE | A(6) | String | 1 | 6 | | | | | Light-Duty | Certification Test Data | | Manufacture LOD | f/Front end | | LD-CTD-FP-BR002a LD-CTD-FP-BR002b | FP-BR22: If the Process Code (FP-0.5) is equal to 'N' (New) then a record cannot already exist in the system with the same Fuel Batch ID (FP-2), Fuel Batch Calibration Number (FP-3), and Manufacturer Code (FP-1), FP-BR22: II Process Code (FP-0.5) is equal to C' (Correction) then there cannot be an active Test Information Dataset with the same Fuel Batch (D) (FP-2), rue Batch Calibration Number (FP-3), and Manufacturer Code (F-1). |
| | | | | | | | Oung | | Ū | | | | | Light Doty | | | | | | | FP-BR2: If Process Code (FP-0.5) is equal to 'R' (Report) or 'C' (Correction) then a record must already exist in the system with the same Fuel Batch ID (FP-2), Fuel Batch Calibration Number (FP-3), and Manufacturer Code (FP-1). |
| | Fuel calibration | Enter the fuel calibration number for this | FuelPropertiesSubmission/F uelPropertiesInformationDeta | aFuelCalibrationNun | | | | | | | | | | | Certification | | Manufacture | r/ Front | | LD-CTD-FP-BR002b LD-CTD-FP-BR022 | FP-BR22: If the Process Code (FP-4.5) is equal to 'N (New) than a record control already with in the system E-10 Blach (D (FP-2), Faul Blach Calibration Number (FP-3), and Manufacturer Code (FP-1), FP-BR23: If Process Code (FP-0) is equal to C' (Correction) then there cannot be an active Test Information Dataset with the same Fuel Blach II (FP-2), rule Blach Calibration Number (FP-3), and Manufacturer Code (F |
| | number Test Fuel Type | Select the applicable test fuel type for this use batch. | FuelPropertiesSubmission/F uelPropertiesMomission/F uelPropertiesInformationDetails | aTestFuelTypeldent ior | TRUE | N(4) | Enumeration | | | | 1 | 9999 | PA INSURVED GARDINE PAIN NURL/VEE DARDINE PAINER INFORMATION CONTINUE NURLER INFORMATION CONTINUE NURLER INFORMATION CONTINUE | | Test Data Certification Test Data | | LOD | Front | XML | LD-CTD-FP-BR023 | 1). |
| | Fuel batch | Enter the calibration | FuelPropertiesSubmission/F | | | | | | 2] 9] 1] 9] | [1-]{1}{0-]{3}{0-]{3}{0-]{1}{0-]{1}{0-]{1}{0- | | | | | | | | | | | |
| FP-5 | calibration effective date | effective date for this fuel batch. | uelPropertiesInformationDeta Is/FuelIdentificationDetails | aBatchCalibrationEff ectiveDate | TRUE | D(8) | Date | | 2] | K1){0- 9K1} [1- [X1){0- [X3){0- [X3){0- [X3]{0- [X3]{0- [X3]{0-} | | | | Light-Duty | Certification Test Data | YYYYMMDD | Manufacture LOD | / Front end | XML | | |
| | Fuel batch calibration ineffective date | calibration ineffective date fo | FuelPropertiesSubmission/F uelPropertiesInformationDeta Is/FuelIdentificationDetails | aBatchCalibrationInE ffectiveDate | FALSE | D(8) | Date | | 9] 3] | K1}IO- K1}IO- K1}IO- 9K1} | | | | Light-Duty | Certification Test Data | | Manufacture LOD | r/ Front end | XML | | |
| FP-7 | Fuel batch calibration date | Enter the calibration date for this fuel batch. | FuelPropertiesSubmission/F uelPropertiesInformationDeta Is/FuelIdentificationDetails | aBatchCalibrationDa te | TRUE | D(8) | Date | | 2] 9] 1] 9] 3] | [1- {3}[0- {3}[0- {1}[0- {1}[0- {1}[0- {1}][0- 9]{1}] | | | | Light-Duty | Certification Test Data | | Manufacturer LOD | | XML | | |

| EPA Data Element Number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Description | <u>Min Max</u> Length Lengt | <u>To</u> Pattern Dic | tal Fraction | <u>Min.</u> Value | <u>Max</u> Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Colle ction Point | Collec tion Type | Applicable Business Rules | Validation Rules |
|----------------------------------|---|--|---|------------------------------|------------|--------------|-----------------------|--------------------------|--------------------------------|--------------------------|--------------|----------------------|---------------------|--|------------|------------------------------|-----------------|--------------------|-------------------------|------------------------|---|--|
| Fuel Pro | perties Carbon weight fraction NMHC | Enter the carbon weight fraction NMHC for this fue | test fuel type equal to diese FuelPropertiesSubmission/F uelPropertiesInformationDeta Is/FuelSpecificationsDetails/ CarbonWeightFractionDetails | ai FractionNMHCMea | FALSE | | N(4,3) | Decimal | | | 4 3 | 0.7 | 0.9 | 0.700-0.900 Natural Gas - CWF _{NMHC} | Light-Duty | Certification Test Data | | Manufacture LOD | r/ Front end | XML | FP BR3 | FP BR3: If Test Fuel Type (FP-0) has a Fuel Category equal to 'CNG' (to Fuel Type equals '10' (Natural Cas) or '11' (Compressed Natural Case)) then Category The Category (Compared to the between #.0 and 40.000 This is now disabled. |
| FP-9 | Carbon weight fraction HC | Enter the carbon weight fraction HC for this fuel batch. | FuelPropertiesSubmission/F uelPropertiesInformationDeta Is/FuelSpecificationsDetails/ CarbonWeightFractionDetails | FractionHCMeasur | FALSE | | N(4,3) | Decimal | | | 4 3 | 0.7 | 0.9 | 0.700-0.900 Natural Gas - CWF _{HCNG} | Light-Duty | Certification | | Manufacture LOD | r/ Front end | XML | EP-BR4 | EP-BR4 If Test Fuel Type (EP-4) is equal to 10: (Natural Gas) or 41' (Compressed Natural Gas) then Carbon Weight Fraction HC (FP-9) is required to be between 0.680 and 0.900 This rule is now disabled. |
| FP-10 | Exhaust carbon weight fraction | carbon weight | FuelPropertiesSubmission/F uelPropertiesInformationDete IISFuelSpecificationsDetails CarbonWeightFractionDetails | ExhaustFractionMe | e FALSE | | N(4,3) | Decimal | | | 4 3 | 0.8 or 0.0 | 1.0 | 0.800-1.000 (Methanol) Methanol - CWF _{ext} 0.800-1.000 (Methanol blend) Methanol blend - CWF _{ext} 0.800-1.000 (California Phase II- California Phase II - CWF 0.000-1.000 - California Phase II CWF _{ext} | - | Certification /Test Data | | Manufacture LOD | r/ Front end | XML | | |
| | Fuel methanol volume fraction | Enter the fuel methanol volume fraction for this fuel batch. | FuelPropertiesSubmission/F uelPropertiesInformationDeta Is/FuelSpecificationsDetails | aMethanolVolumeFi | FALSE | | N(4,3) | Decimal | | | 4 3 | 0.0 | 1.0 | 0.000-1.000 (Methanol) Methanol 0.000-1.000 (Methanol blend) Methanol blend. | Light-Duty | Certification | | Manufacture LOD | r/ Front end | XML | EP-BR5 | FP-BR6 II-Test-Fuel Type (FP-4) has a Fuel Category equal to -CNC (Natural Case) (Nethanel er Mehanel Blend) then Fuel Mehanel Volume Frastier (FP-11) is required to be between 0.000 and 1.000This rule has been deleted. |
| FP-12 | Fuel density | Enter the fuel density for this fuel batch. Units are grams/cu. Ft. | FuelPropertiesSubmission/F uelPropertiesInformationDete Is/FuelSpecificationsDetails | aiFuelDensityMeasu e | FALSE | | N(5,3) | Decimal | | e | 5 3 | 1.0 | 40.0 | Units are grams/cu. Ft. for gaseo fuels 1.000-40.00 (Natural Gas) Natural Gas - D _{kG} Natural Gas (Dual Fue) - D _{kG} , D _{at} | | Certification | | Manufacture LOD | r/ Front end | XML. | EP-BR6 | FP-BR6II Test Fuel Type (FP-4) has a Fuel Category equal to CNO (Test Fuel Type equals 10: (Natural Cast) or 141 (Compressed Natural Cast) then Fuel Dendy FP-12 is required to be between 16.0 and 26.0 gm/cu-EL. This rule has been disabled. |
| FP-13 | Fuel specific gravity | specific gravity for | FuelPropertiesSubmission/F uelPropertiesInformationDeta Is/FuelSpecificationsDetails | alSpecificGravityMea sure | a FALSE | | N(4,3) | Decimal | | | 4 3 | Min of set | Max of set | 0.719-0.770 (Gasoline) Gasoline - SG California Phase II - SQurd Dissel - NOT RECUIRED 0.790-0.800 (Methanol) Methanol - SG 0.740-0.780 (Methanol blend) Methanol blend - SG 0.723-0.730 (California Phase II) California Phase II - SQurd | | Certification / Test Data | | Manufacture LOD | t/ Front end | XML | F P 887 EP-888 FP-889 | FP BR7. II Test Fuel Type (FP.4) has a Fuel Category equal to -0' (Georine) Free Fuel Type equals 1.6, 7, 22, 23, 24, 26, 26, 27, ef 9) hen Fuel Specific Gravity (FP.4) is required to be between 0.700 and 9-790. This rule has been disabled. EP-BR8. II Test Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type required be 14) then Fuel Specific Grave, equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a Fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a Fuel Type (FP.4) has a fuel Category equal to D'(Diest free Fuel Type) (FP.4) has a fuel to D'(Diest free Fuel Type) (FP.4) has a fuel to D'(Diest free Fuel Type) (FP.4) has a fuel Type (FP.4) has a fuel to D'(Diest free Fuel Type) (FP.4) has a fuel to D'(Diest free Type) (FP.4) has a |
| FP-14 | Fuel net heating value | this fuel batch in | FuelPropertiesSubmission/F uelPropertiesInformationDeta | a NetHeating Value | FALSE | | N(6) | Integer | | | | Min of set | Max of set | Units are BTUPound OnitaBit-01000 (Gascine) Gascine (data teal) - NVV, NIVyee, NVV, 00500-01900 (Clease) Deset (uniqe teal) - NVT REQURED 00500-019000 (Network) Methanol (sergle teal) - NVT REQURED Methanol (data) (teal) - NVTe, Nethanol (data) (teal) - NVTe, NVTe, NVTe, NVTE, NV | Vso | Certification (Test Data | | Manufacture LOD | i/ Front end | XML | 52-8810 52-8811 52-8813 52-8813 | PP BR10- II Tool Funt Type (FP 4 has a Fuel Category equal to 'C' (Soussier) (Troot Fuel Type equate 1 4, 7, 22, 23, 24, 36, 26, 27, ce 41) (Soussier) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C' (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C') (Souss) (Troot Fuel Type (FP 4) has a Fuel Category equal to 'C') (Souss) (Troot Fuel Type (FP 4) has a fuel Category equal to 'C') (Souss) (Troot Fuel Type (FP 4) has a fuel Category equal to 'C') (Souss) (Troot Fuel Type (FP 4) has a fuel Category equal to 'C') (Souss) (Troot Fuel Type (FP 4) has been disabled. FP BR12. II Toot Fuel Type (FP 4) has a fuel to be between 1500 and 16000 Fuel. This rule has been disabled. |
| | Fuel blend carbon weight fraction | this fuel batch. | FuelPropertiesSubmission/F uelPropertiesInformationDeta ISFUelSpecification3Details/ Landon/WeighFractionDetails FuelPropertiesSubmission/F | BlendFractionMea: sure | s FALSE | | N(4,3) | Decimal | | | 4 3 | Min of set | Max of set | 0.835-0886 (Gasalino) Gasoline - OWF 0.864-0772 (Disen) Diseal - NOT REOUIRED 0.3745-0.880 (Methanol blend) Methanol blend - CWF 0.330-0844 (California Phase II) - OWF _{Buil} 0.550-0770 (Natural gas- Natural gas- CWF _{Bu} 0.335-0886 (Gasoline) Gasoline - CWF California Phase II - CWF _{Build} | Light-Duty | Certification Test Data | | Manufacture LOD | r/ Front end | XML | FP-88144 EP_8815 FP-8815 EP_8817 | EP BRI4: II Test Fuel Type (FP 4) has a Fuel Category equal to 'G' (Sastina) (FE 104 Type equals 1, 6, 7, 22, 32, 32, 55, 82, 72, 64) has Fuel Renet Cathers Weight Forefam (FE 14) is required to be between 9385 and 9.886. This rule is now disabled. FP BRI5: II Test Type (FP 4) has a Fuel Category equal to 'D' (Resel) (Test Fuel Type (FP 4) has a Fuel Category equal to 'D' (Resel) (Test Fuel Type (FP 4) has a Fuel Category equal to 'D' (Resel) (Test Fuel Type (FP 4) has a Fuel Category equal to 'D' (Resel) (Test Fuel Type (FP 4) has a Fuel Category equal to 'D' (Resel) (Test Fuel Type (FP 4) has a Fuel Category equal to 'D' (Category Category (FP 4) has a Fuel Category equal to 'De' (Category Category (FP 4) has a Fuel Category equal to 'CNG' (Category equal to CAtegory equal to 'D') has reader (FP 4) has a Fuel Category equal to 'CNG' (Category equal to CAtegory equal to 'D') has a Fuel Category equal to 'CNG' (Category equal to the between 0.860 and 0.270 This rule is now disabled. |
| FP-16 | Weight fraction CO2 | weight fraction for | uelPropertiesInformationDeta Is/FuelSpecificationsDetails/ CarbonWeightFractionDetails | FractionCO2Mease | u FALSE | | N(4,3) | Decimal | | | 4 3 | 0.0 | 0.3 | 0.000-0.300 Natural Gas - WF _{NG} | Light-Duty | Certification Test Data | | Manufacture LOD | r/ Front end | XML | FP BR18 | (Test Fuel Type equals '10' (Natural Gas) or '41' (Compressed Natural Gas)) then Weight Fraction CO2 (FP 16) is required to be between 0.000 and 0.300 This rule is now disabled. |

| Orange = Changes Due New Technologies (Mu Biok = TPD | To Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue=Misc Cutification Changes | | | | | | | | | | | | | | | | | |
|--|---|---|--|-----------------------|--------------|---------------------------|--------------------------------------|-------------------------|---|-------------------------------|--------------|-----------|--|--|---|---|---|--------------------------------------|--|---|
| EPA Data Element Number Long Name | Description | Parents Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Description | Min Max Length Lengt | Pettern Dis | tal Fraction ats al Digits | Min Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Origin ion ator Point | Collection | Applicable Business Rules | Validation Roles |
| TI-0.5 Process Code | Select the desired process code for the current submission. | TestInformationSubmiss on/TestInformationDetail | InformationProcessCod | TRUE | | | | | | | | | N = New dataset C = Correction of existing Verify dataset | Light-Duty | Certification Test Data | | Manuf acturer Front /LOD End | XML | LD-CTD-TI-BR027 | TI-BR27: If Process Code (TI-0.5) is equal to 'C' then there cannot be any locked and active Certificate Summary Information Reports (CSIs) which reference this test. |
| 7.1.1 Test Number 7.1.2 LOD Test Number | A unique number assigned by Velity to lidentify this set of test info and results. Character 1 is Model Vear, Character 2 - 4 Manufacture rook- be assignment and the sequential test number. For the sequential test other number is a manufacture rise. For EPA confirmation table a unique rook test and the sequential test in the sequence in the sequence test in the sequence is the sequence into and results. This field will be left blank for | TestinformationSubmiss on/TestinformationDetail s TestinformationSubmiss on/TestinformationDetail | TedNumberdentifier | FALSE | 1 per lust | A(12) F | Fixed String | | | | | | | Light-Duty | Certification Test Data | | Verify end if New otherw Front isa end Auruf not acturer New Front | Assigned if Naw, otherwise XML | LD-CTD-TI-BR002a LD-CTD-TI-BR002b LD-CTD-TI-BR002b LD-CTD-TI-BR003t LD-CTD-TI-BR003t | TaBIC: If Process Code (T10-5) is equal to °C (Connotion) and the Original Model Year (N7) of the associated vehicle is greater than or equal to 2017, then its Tak Minker (T1-5) is equal to °C (Connotion) gread must already and in the agreem. TaBIC: IF Process Code (T10-5) is equal to °C (People Tak Tak Minker) (10) is noted and a ready composing record must already exist in the spatial. IF Process Code (T10-5) is equal to °C (People Tak Tak Minker) (10) is note all code at TaBIS: IF Process Code (T10-5) is equal to °C (People Tak Tak Minker) (10) is not all codes. TaBIS: IF Process Code (T10-5) is equal to CP (T10) is equal to 100° and Process Code (T10-5) is equal to °C (Connotice) and item Tak Minker (T10) is equivid and a composeding scord must already and in the spate. |
| TI-3 Manufacturer code | manufacturer tests. The 3-character alphanumeric code assigned by CPA to each manufacturer. Form this tests this will be derived from user's CDX user account. Otherwise, it will come from LOD Test Report data. Enter the unique alphanumeric identifier for the tasted whicks | s TestinformationSubmiss | LODT exNumberText | TRUE | 1 per wat | A(20) A(3) | String Fixed string | 3 3 | (A-Z0- 9)(3) | | | | | Light-Duty Light-Duty | Centification Test Data | | Verify Front LOD end | XML | LD-CTD-TI-8R004 LD-CTD-TI-8R001 LD-CTD-TI-8R003 LD-CTD-TI-8R017 TI-8R14 LD-CTD-TI-8R029 | Table E the automicro Manufacture Code (TL3) in one equit to LC0 * Bei LC0 * Fei Lumber (TL2) is not advecd. Table : Manufacture Code (TL3) in one equit to M payme. Table : Manufacture Code (TL3) is not equit to M payme of C (Control Code (TL4) in one Code (TL4) is not advecded. Table : Manufacture Code (TL4) is not advecded one control (TL4) in the Manufacture Code (TL4) is not advecded. Table : Manufacture Code (TL4) is not advecded one control (TL4) in the Manufacture Code (TL4) is not advecded. Table : Manufacture Code (TL4) is not advecded one control (TL4) in the most non- table : Manufacture Code (TL4) is not advecded one code (TL4) in the most non- Table : Manufacture Code (TL4) is not advecded one code (TL4) in the most non- math the Manufacture Code (TL4) is not advecded one code (TL4) in the most non- math the Manufacture Code (TL4) is not advecded one code (TL4) in the most non- math the Manufacture Code (TL4) is not advecded one code (TL4) in the most non- math the Manufacture Code (TL4) is not advecded one code (TL4) in the most non- math the Manufacture Code (TL4) is not advecded one code one code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the Manufacture Code (TL4) in the most non- math the most non- math the Manufactu |
| TI-4 Vehicle ID | previously established in Test Vehicle Information Enter the vehicle configuration number for the tested vehicle new/melk established in | on/TestInformationDetai | VehicleIdentificationTi | TRUE | 1 per test | A(20) | String | 1 20 | | | | | | Light-Duty | Certification Test Data | | Acturer Front /LOD end | XML | LD-CTD-TI-BR003 | TaBB2: If Process Code (Tr3) is equal to Y (New) or 'C' (Connection) then the Manufacturer Code (Tr3), Vehicle (D (Tr4), and Vehicle Configuration (Tr3) must match to an angine vehicle connectly in the agreem. |
| TI-5 Vehicle Configuration # | previously established in Test Vehicle Information | . s | umber | TRUE | 1 per test | N(2) | Integer | | [1- 2](1)]0- 9](3)]0- 1](1)]0- | | 0 | 99 | | Light-Duty | Certification Test Data | | /LOD end | XML | LD-CTD-TI-BR003 | (resc), if reduces using (reg) requires in the particle (potentiality) and its minimum control on (reg), remove art (reg) and emission Configuration (f16) must match to an acquire vehicle contently in the space. |
| TI-8 Test date | Enter the date on which the test was conducted. | TestInformationSubmiss on/TestInformationDetail s/TestDataDetails | TestDate | TRUE | 1 per test | D(8) | Date | | 9](1)[0- 3](1)[0- 9](1) | | | | | Light-Duty | Certification Test Data | YYYYMMDD | Acturer Front /LOD end | XML | LD-CTD-TI-BR005 | TI-BRS: Text Date (TI-6) must be earlier than or equal to the Submit Date (as determined by the system). |
| Verify Test Lab ID TI-7 Mill: Test lab site cede | Enter the applicable manufacturer test lab site code that was previously established as part of Manufacturer Information. | a TexInformationSubmiss on/TexInformationDetail s/TexIDataDetails | i TestLaboratorySiteCod | FALSE | 1 per test | N(2) | Integer | | | | 1 | 99 | | Light-Duty | Certification Test Data | | Manuf Front acturer end | XML | LD-CTD-TI-BR006 | TLRBE: Un he admittent Manufacturer Color (TL3) is equal to LCO' then Manufacturer Text Lab Sile Color (TL7) is not allowed, othermia it is required. |
| T.6 Test Procedure | Enser the applicable sea procedure for the test constant of the test definition of the test definition of the sea definition of the | Teathbandorðahlan of Teathbanaschtei of arfiteasachtei of arfiteasachtei of arfiteasachtei of Teathbandorðahlandir of Teathbandorðahlandir of Teathbandorðahlandir | Teathucation file Teathucation file | r TRUE TRUE | 1 per last | N(2) E N(2) E | Enumeration | | | | | | | LightDuty | Cettification Test Data | Test Procedure Codes 80 (6-Cycle City Rare Test Big Data) and 25 (5-Cycle Mare Test Big Data) and 25 (5-Cycle Marel Code Code Code Code Code Code Antipactical Code Code Code Code Antipactical Code Code Code Code Rate Test Code Code Code Code Code Rate Test Code Code Code Code Code Test Test Code Code Code Code Code Code Test Test Code Code Code Code Code Test Test Test Code Code Code Code Code Test Test Test Test Test Test Test Test | y a Marul Acturel Front AOD end Marul | 2046. 2014. | NOV LOCID REPORT DILITE REPORT | NEW // Organi Tau Visiole Model Yaor (VF) (i separt to ar generar then 7017; dans Tau Procedure (TA) (can not be equal to %7 (Bennic Visiole Urban Tauge Tau Visiole Model YAO (ST) (ST) (ST) (ST) (ST) (ST) (ST) (ST) |
| TI-10 reading | of the test. Enter the units of the odometer reading for thi | s/TestDataDetails | OdometerStartValue | TRUE | 1 per test | N(7.1) | Decimal | | | 7 1 | 0.0 | 999,999.9 | M - Miles | Light-Duty | Certification Test Data | | Acturer Front /LOD end Manuf Acturer Front /LOD end | XML | | |
| Ti.11 Odometer units Exhaust - Evap wat number link Exhaust - Evap wat Ti.13 Comparison During FE Ti.13.5 CREE (ADDR) Indicator | vehicle. Required for evaporative tests. Enter the test number of the corresponding FTP exhaut test. The exhaut test must be entered prior to the evap test. I is this test analytically derived? | on/TestinomationDutais arTestinomationDutai arTestinomationDutais on/TestinomationDutais on/TestinomationDutais arTestinomationDutais arTestinomationDutais arTestinomationDutais arTestinomationDutais | Correction/UnitsCode | TRUE FALSE TRUE | 1 per test | A(1) E A(15) A(1) E | Enumenation String Enumenation | 12 4 1246 | | | | | K - Kilonatana NeNo Yu Yes | Light-Duty Light-Duty Light Duty | Certification Test Data Certification Test Data Certification Test Data | | AOD end Manuf AOD end Manuf Front acturer end | XML XML XML | LD-CTD-Ti-BR008a | Tables. If Tas Procedures (T48) is an exepositive test (Fee Procedure equal to 23, 24, 27, 32, 34, 37, 34, 43, 44, 47) then the Educate Execution Tas Number Line (T-13) is enjoined and must reference an PTP Exhaust set number that already acids in VMHy, otherwise is a first already. |
| Addyscally Durived FE CRE Sease Verify Ratt 11-13-8 Newson Analytically Durived FE NEW: CREE - Total Road Lad | Enter the total road loan horsepower at 50 mph (TRLHP50) for the analytically derived tes / vehicle configuration. | TestinformationSubmissionDetains ionTestinformationDetails is/TestDataDetails | AnalysicallyDerivedTe stidentifier | FALSE | 1 per test | A(12) F | Fixed String | 12 12 | | | | | | LighsDusy | Certification Test Data | | Manuf acture Front r end Manuf acture Front | XML | NEW, LD-CTD-TI-BRK53 NEW, LD-CTD-TI-BRK54 NEW, LD-CTD-TI-BRK55 | MET IF Organization Trans Values Media Yare (MT) is equal to or generative TRITS and F Analytically Derived FECEEE Induced (N1.3.) is equil to "Yes", the Analytically Derived FECEEE Induced (N1.3.) is equil to an analytically Derived FECEEE Induced (N1.3.) is equin to an analytically Derived FECEEE Induced (N1.3.) is equil to an |
| NEW: CREE - Total Road Load 11-13.7 Horsepower | not actually tested) | is/TestDataDetails | asure | FALSE | 1 per Test | N(3,1) | Decimal | | | 1 | 0 | 99.9 | | Light Duty | Certification Test Data | | r End | XML | NEW: LD-CTD-TI-BR056 | If Original Test Vehicle Model Year (N-7) is equal to or greater than 2012 and Analytically-Derived FBICREE Indicator (N-15.5) is equal to "Yes", than Analytically-Derived FE / CREE - Total Road Load Horsepower (N-13.7) is required, otherwise it is not allowed. |

| | Orange = Changes Due To | Green = | | Photo Miles | | | | | | | | | | | | | | | | _ |
|-------------------------------|---|--|---|--|---------------|--------------|--------------------|--------------------------|-------------------------|-----------------|--|-----------|---|------------|-------------------------|---|---------------------------------------|--------------------|---|---|
| Pink = TBD | New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue=Misc Certification Changes | | | Deally Deal | Days Taxa | | | | 1 | | | | | Collect | Output and an | | |
| EPA Data Element Number | Long Name. | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Description | Min Max Length Lengt | th Pattern Digi | al Fraction Min. ts al Digits Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Origin ator | Collection Type | Applicable Business Rules | Validation Rules |
| NEW: TI-13.8 | Analytically-Derived FE / CREE - ETW | Enter the equivalent test weight, in pounds for the analytically derived test vehicle. (The analytical vehicle not actually tested) | TestInformationSubmiss ion/TestInformationDetai Is/TestDataDetails | AnalyticallyDerivedEq uivatenfTestWeightMe asure | FALSE | 1 per Test | N(5) | Enumeratio n | | | 0 | 14000 | 1000, 1125, 1250, 1375, 1500, 1625, 1750, 1875, 2000, 2125, 2250, 2375, 2500, 2625, 2750, 2875, 2000, 3125, 3250, 3375, 3500, 3505, 3570, 3875, 4000, 4250, 4500, 4750, 1000, 1550, 5000, 6500, 1000, 1560, 5000, 16300, 11000, 11500, 12000, 14500, 13000, 13500, 14000 | Light-Duty | Certification Test Data | (Same enumeration list as ETW (VI-30) from VI dataset) | Manuf acture Front r end | XML | NEW: LD-CTD-TI-BR057 | E Original Test Valotis Model Year (Vi7) is equal to or greater than 7017 and AnalyticallyContred FEDREE Indicator (N-1.5) is equal to "Yea", then AnalyticallyContred FE (7012) is equal to regime, observice it is an allowed. |
| NEW: TI-13.9 | Analysically-Derived FE / CREE - N/V Ratio | Enter the applicable NV ratio for the analytically derive detaxt vehicle configuration. (The analytical vehicle not actually tested) Was this test conducted on a 4WD | TestinformationSubmiss ion/TestinformationDetai Isr/TestDataDetails TestInformationSubmissi | AnalyticallyDerivedNV RatioMeasure | FALSE | 1 per Test | N(4,1) | Decimal | | 4 | 1 0.0 | 999.9 | | LighsDury | Certification Test Data | | Manuf acture Front r end | XML | NEW: LD-CTD-TI-BR058 | r Original Nex Volucia Nodel Your (V-7) is equil to or greater from 2017 and Analytically-Derived FECREE Inductor (N-1.3) is equil to Year', from Analytically-Derived FE (2012: HW Rate (N-1.3) is regained, editore in a lis not advected. |
| TI-14 | 4WD Test Dyno | on a 4WD dynomometer? Enter "Y" for yes, "N" for no. | on/TestInformationSubmiss on/TestInformationDetail s/TestDataDetails | FourWheelDriveDynam ometerIndicator | TRUE | 1 per test | A(1) | Enumeration | | | | | Y = Yes N = No | Light-Duty | Certification Test Data | | Acturer Front /LOD end | XML | | |
| TI-15 | EPA Dyno Number | | TestInformationSubmissi on/TestInformationDetail s/TestDataDetails | | FALSE | 1 per test | A(4) | String | 1 4 | | | | | Light-Duty | Certification Test Data | | Manuf acturer Front /LOD end | XML | | 11892 Fail Bath Mandataw Cole (115), Fail Bath D (1117) and Fail Calibration Number (1119), Il peaks, mut edenenie a Fail |
| 7140 | Fuel Batch Manufacturer Code | Enter the manufacturer code for the owner of the fuel batch used for this | TestInformation Submissi on/TestInformationDetail s/TestDataDetails/FuelBa | FuelBatchManufacturer | FALSE | 1 per test | 4(3) | | | [A-Z0- 9](3) | | | | Light-Duty | Certification Test Data | | Manuf acturer Front /LOD end | XMI | LD-CTD-TI-BR009 | Properties dataset hat exists in the system. 11 BRIA: Not required for test fuel types equal to "Disen17" or Thydrogen", or but procedures for even or "solvatio range whan" or "solvatio range. |
| | Fuel batch ID | Enter the applicable fuel betch ID for this test. | tchPropertiesDetails TestInformationSubmissi on/TestInformationDetail s/TestDataDetails/FuelBa tchPropertiesDetails | | FALSE | 1 per test | A(3) A(6) | Fixed String String | 3 3 | 31(2) | | | | Light-Duty | Centrication Test Data | | Manuf Acturer Front /LOD end | XML | LD-CTD-TI-BR009 | ngenery. TRBR: Fuel Bach Manufacture Cole (T-10), Fuel Bach ID (T-17) and Fuel Calibration Number (T-18), if pream, must reference a Fuel Population dataset that exists in the system. TRBR: - the special contract fuel types equal to "Doesn't arthrophysic", a test previous contract on provident to the strategiest approximation of the special contract of the strategiest and the special contract on the strategiest approximation of the strategiest approximation |
| | | Enter the ennlinable fuel | TestInformationSubmissi | | | | | | | | | | | | | | Manuf | | LD-CTD-TI-BR009 | manufacture |
| TI-18 | Fuel calibration number | calibration number for this test. Enter the applicable diesel adjustment factor | s/TestDataDetails/FuelBa tchPropertiesDetails | FuelCalibrationNumber | FALSE | 1 per test | N(4) | Integer | | | 1 | 9999 | | Light-Duty | Certification Test Data | | Acturer Front /LOD end | XML | TIBRIO | 31 BR10. Not required for tear funt types equal to "Discutt" of hydrogen", or tear providents for even or "shorter energy when " or other ange- high may". |
| TI-18.5 | Diesel Adjustment Factor Usage Indicator | to be used for calculation of the certification level for this test. | TestInformation Submissi on/TestInformationDetail s/TestDataDetails | DieselAdjustmentFactor UsageIndicator | FALSE | 1 per test | A(1) | Enumeration | | | | | U = Upward D = Downward | | | | Manuf acturer /LOD end | XML | LD-CTD-TI-BR028 | T1-8628: If Teat Faul Type (T1-9) is equal to '7 (1994 Cert Diesel 300 ppm Suflur) or '19' (2007 Cert Diesel 7-15 ppm Suflur), the Diesel Adjustment Floctor (T1-18.5) is negarized, otherwise it is optional. |
| New: TI-18.8 | Manufacturer Confirmatory Test Indicator | Specify whether this test is a manufacturer confirmatory test required by CAP 2000 regulations. | TestinformationSubmiss ion/TestinformationDetai Is/TestDataDetails | Manufacturer Confirma toryTestIndicator | FALSE | 1 per test | A(1) | Enumeratio n | | | | | Y = Yes N = No | Light-Duty | Certification Test Data | | Manuf acture Front r end | XML | NEW: LD-CTD-TI-BR059 | NEW: If Original Test Vehicle Model Year (VI-7) is equal to or greater than 1912; then Manufacturer Confirmatory Test Indicator (TI-18.8) is required for tests being submitted by manufacturers and is not allowed for tests being submitted by LOO. |
| New: | Original Manufacturer Verify Test Number That Was Confirmed | Enter the original Verify test number that was continued by this test. | Testinformation Submiss ion/TestinformationDetail | OriginalManufacturerC | FALSE | | 4(13) | Event String | | | | | | Linte Day | Contribution Text Data | | Manuf acture Front | | NEW: LD-CTD-TI-BR060 NEW: LD-CTD-TI-BR061 NEW: LD-CTD-TI-BR062 | NEW. If Handacture Confirmancy Test Indicator (511.8) is equal to "Yes", then Original Mandacturer Verify Test Number That Was Confined (511.8) is regarded, determine is in or taleword. WWW. Toro Disc (116.1) the starbing admitted match to equal to or tame than the Test Data (514) of the Original Mandacturer Verify Test Number That Was Confirmed (511.8). NEW: Original Mandacturer Verify Test Number Test Was Confirmed (514.5) must exist on a Confirmatory Test Decision Information datas for 4 assaure Verife (514.6) and Verbalic Configuration (514.5) must exist on a Confirmatory Test Decision Information datas |
| TI-22 | Retest indicator | "Yes" is entered any time this test is a retest of a previous test | TestinformationSubmissi on/TestInformationDetail s/TestDataDetails | RetestIndicator | TRUE SALSE | 1 per test | A(1) | Enumeration | | | | | Y = Yes N = No | Light-Duty | Certification Test Data | If the schema is changed to make this a required field then the new business rule is not needed. However, if the schema is not changed then his new business rule is needed. | Manuf acture r/LOD end | XML | DELETE: 3-9815 NEW: LD-CTD-TI-BR063 | 121212: SB811. Site exhibites Mandasone Cate (33) is equit to 100° dan Rosal Indiane (333) is equive. NEX IP Proces Cate (1633) is equit to "two Dasart" and if Origina Tax Twintish Model Yaar (147) is equit to or prave than 2017, the Rest Indicate (162) is required for all loss is admitted by LCD and Mandatarens. |
| Now : 11-22.1 | Manufacturer Verify Test Number That Was Retested | Enter the Verify test number that required this retest. | TestinformationSubmiss isn/TestinformationDetai isn/TestbasDetails | ManufacturerRetestTe stNumberldensfiler | FALSE | 1 per test | A(12) | Fixed String | 12 12 | | | | | Light-Duty | Certification Test Data | | Manuf acture Front r end | XML | NEW: LD-CTD-TI-BR041 NEW: LD-CTD-TI-BR042 | Mer, If Original Test Values Markit Yaor (NT) is equal to or greater than "021" and Filmes Underson (122) is a spart or "Yes", data the spart of the set values of Hanak Underson, solver the the antibacture approximation reverse antibacture YLOD. Were "Spart One" (No set Values and the spart for their films the Test One (14) of the Manufacture YLOD Test Spart Test Reverse (122) (). |
| TI-23 | Retest Reason | Enter the reason for conducting this re-test. | TestinformationSubmissi on/TestInformationDetail s/TestDataDetails | RetestReasonidentifier | FALSE | 1 per lest | N(2) | Enumeration | | | | | 1 - Failed (F) 2 - Void (V) 3 - FE (FE) 4 - Uningeneratiative (U) 99 - Other (OT) | Light-Duty | Certification Test Data | | Manuf acture Front r/LOD end | XML | DELETE: 28843 NEW: LD-CTD-TI-88944 NEW: LD-CTD-TI-88945 LD-CTD-TI-8894 | 11.12.12. Selection determinants introductions: Carls (24) (or equivale to SADF and Almost Inducator (24)) equivale to Sales data function intermediated intermediate (242) (or equivale to 'V' (Fed), then Almost Almoster (242) (or equival. MER: For each submitted by manufactures, Research Razane (242) (or early to equival. MER: For each submitted by manufactures, Research Razane (242). |
| T1-24 | State of Charge Delta Indicator | Does the state of charge meet EPA's end of test criteria? This is required for Hybrid and Fuel Cell vehicles. | TestinformationSubmissi on/TestInformationDetail s/TestDataDetails | ChargeStateDeltaIndic ator | FALSE | 1 per test | A(1) | Enumeration | | | | | Y = Y46 N = No | Light-Duty | Certification Test Data | | Manuf acturer Front /LOD end | XML | NEW: LD-CTD-TI-8R046 NEW: LD-CTD-TI-8R067 DELETE: TLBR13 | NEW. Hindrid Indicator (1918.)) or Flad Call Indicator (1911.) is equal to "Fes", then Bane of Charge Dolta Indicator (1924) is required, adversite it is splituit. PELETE: BANE: # Flad Category (N13) equals NV Apartig as TC (Flad Call Banetia), as TRC (Flas Fact Manifolders Bane of Charge Dolt Management 2011) is reported. |
| | Test Comments | | TestInformationSubmissi on/TestInformationDetail s/TestDataDetails | ManufacturerComment Text | FALSE | 1 per test | A(1000) | String | 1 1000 | , | | | | Light-Duty | Certification Test Data | | Manuf acturer Front /LOD end | XML | | |
| DELETE THE | AH-Electic Range - Urban | Enter the all electric- scharrenge (in mike): | TestinformationSubmiss ion/TestinformationDebi id/UbinRangeTecDebit te | AllElectricRangeMeas | FALSE | | 1(4,1) | Decimal | | | | | | Light-Bury | Certification Test Date | With the new business rule for Task Proceeding field (Tal) that descrit allows field with the table of the table field with not be able to be entred by distent from achieve of a settable distent from achieve of a settable distent from achieve and a settable possible. | Manuf Asture Frank | X | Th-8814 | S 1811 - Regined I' fast Procedure (94) spuil: "12" ELECTRIC VENCLE RANCE UTBAN, her allowed offervise. |
| DELETE 1937 | Zessi DC Snorgy Output Urban Tess | Enter the total DC. analy subject for the | TeathdomationSubmiss ion/TeathdomationDeuts MRUbunRangeTeatDeuts ia | ZotalDCOutputMeasure # | FALSE | | NJE-SI | Decimal | | | | 8000.0 | | Light Day | Certification Test Date | Nith the new business rule for Test Procedure field (T-8) that descrit allow values of V2 To be selected, this field will not be able to be entered by defeed from achieves on teaching be defeed from achieves on teaching be defeed from achieves, repsy should be assist, there repsy repsy that be possible. | Manuf Adure Frans 4200 and | | Ti-BR14 | 1. Better, Regulared II fast Procedure (164) aquals "12" ELECTRIC VENCLE RANCE URBAN, has aboved otherwise. |
| DELETE B-38 | Total OC Energy Input- Weber Tota | Enter the setal DC- entergy input for the- when set of NMAND | TootinformationSubmics interfactorizationData trafficturing=TestData is | TeralDClog-affesture | FALSE | | N(5.1) | Decimal | | | | 8000.4 | | Light Duty | Certification Test Data | With the new business rule for Test Procedure field (T-8) that descrit allow values of 12° x13° to be selected, this field with not be able to be ensured by deleted from chema or database if it is easier. However, they should be deleted from forcend web screens if possible. | Manual acture Front sUCD and | XML | Ti-BR14 | Talliti Reginel Fast Procedure (16) equiti 12° (ELECTIC VENELE RANCE URBAN, Not showed esturvise. |

| Pink = 1 | Orange = Changes Du New Technologies (M | To Green = Label/CAFE/GHG | Red = Misc Text Edits | Blue=Misc Certification Changes | | | | | | | | | | | | | | | | | |
|--------------------------|---|--|--|------------------------------------|----------|--|-------------------|--------------------------|---------------------|-------------|---------------------------------|--------------|-----------|----------------|------------|-------------------------|--|------------------------------------|---------------------|--|---|
| EPA Du Eleme Numbr | ta tr Long Name | Description | Parents Name | XML Tag | Required | Multiplicity | Basic Data | Data Type Description | Min ength Length | Pattern Dis | stal Fraction alts al Digits | Min Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Origin ion | t <u>Collection</u> | Applicable Business Rules | Validation Rules |
| DELET 11-30 | E NerDCSrpanded Units | Enter the not DC- enter the not DC- the expanded for the action there (in Mildeit) | Testinformation@ubmisss ionToutinformation@ubmiss ionToutinformationDust ionToutinformationDust | NetDCExpendedMean | FALSE | | N(5.1) | Docimai | | | | | 0000.0 | | LightDuty | Certification Test Data | With the new business rule for Test Procedure (Est) (T-3) that descrit allows field with not be able to be ensured by defend from achemic or database if its askier. However, days should be dealer. However, days should be dealer. However, days should be dealer. However, days head be dealer. However, days h | Manuf schuro Fran schuro end | | T-BR14 | B-BITLE, Required IT has Procedure (168) equals "12" (ELECTICO VENCLE RANGE URBANS, Not allowed otherwise. |
| DELET THE | E Tetal AC Energy-Charg Betterise Aller Urban Tr | Entry the total AC- energy-charge of the- batterice after the volume to the time killedmi). | TestinformationSubmics ionTestinformationDesti - GibbianRangeTesDesti 36 | TetalACChargeAller8 | FALSE | | N(5,1) | Decimal | | | | | 0000.0 | | Light Duty | Cortification Tool Data | With the new business rule for Test Procedure field (1-8) that desert allow values of 12° or 35 to be selected, this field will not be able to be ensured by deleted from chrome or database deleted from formen or database deleted from formen or database deleted from forment we be screens if possible. | Manuf Ioturo Fran | 4 1 XML | T-8814 | S-8114. Regined IT isst Procedure (Ra) equals "12" (SLECTIC VEHICLE RANCE URBAN), Not also ed shurvisa. |
| DELET | E Zetal DC Seorgy-Charg Betterice Aller Urban Te | Enter the total DC- entergy-charge of the- batterice-affective affective Not (in White). | TestindomationSubmiss ion/TestindomationDetail et/UteanRangeTestDetail 44 | ZetalDCChargeAllerti More | in FALSE | | N(5,1) | Docimal | | | | 0.0 | 0000.0 | | Light Duty | Contification Test Data | With the new business rule for Test Procedure field (Td-3) but descrit allows field will not be able to be ensued by mirs so it does not need to actually be deleted from actumer or database if it is assisr. However, dwy should be deleted from thormand web screens if possible. | Manud Ioturo Fican | * | T-8814 | 188114. Registed If Task Proceedars (16) equals "12" (ELECTRIC VEHICLE RANCE URBAN), Nor allowed utbarwise. |
| DELET TL-32 | E All Electric Range - Highway | Enter the all electric- urban cange (in milde). | To scholarm at lan Submice o ten To scholarm at lan Datai ten tigt way Range To stDe ablie | AllElectric RangeMea | FALSE | | N(1,1) | Docimal | | | | | | | Light-Duty | Certification Test Data | With the new loadings rule for Test Procedure field (Tell) that doesn't allow values of 152° or 153 to be salected, this did will not be able to be entered by mirs so it does not need to actually be deleted from actumer or database if it is assisr. However, they should be deleted from formand web screens if possible. | Manud Incture ALOD | e XML | T-8815 | S 8814. Registed If Tass Proceedure (16) equals "51" (ELECTRIC VEHICLE RANCE MOMBATY). Not allowed adversion. |
| DELET T-33 | E Tetal-DC Sincery, Output Highmay-Teta | Enter the setal DC- energy extput for the- highway test for- Million)- | Textinformation Submises des Freedonternation Detail texTrightmay/Fange TextDe tails | TetalDCOusputMeasu | . FALSE | | N(5,1) | Desimal | | | | 0.0 | 0000-0- | | Light Duoy | Cartification Tost Data | With the new lossiness rule for Test Procedure field (Te3) that doesn't allow following the source of the second second mirs so it does not need to actually be deleted from scheme or database if it is easier. However, stay should be deleted from formand web screens if possible. | Manuf Ioluro Fran ILCO ent | t xmL | 11-0815 | 8-8114. Regulard I' Nat Procedure (16) jegunis "13" (ELECTRIC VENCLE RANCE MICHINAT), Natalianud distantias. |
| DELET | E Tassi DC Energy Input | Enter the total DC- energy input for the- Nghway best (n- Vithing) | Teadinformation Submisso ion Teadinformation Data tea Figure ay Franzo Tea Data | TypalDClaustMessors | FALSE | | | | | | | | | | Light Dury | Certification Test Data | With the new business rule for Test Procedure field (T-8) that descrit allow values of 12° or 31 to be selected, this field will not be able to be entered by deleted from scheme or database if it is assin. However, flav should be deleted from formand web screens if possible. | Manuf Johan Fran | | 1.6815 | Tables, Realing J Tao Pacabar (Rith ands 117 ELECTIC VENCE AMER HONKY), Na Almad almonia. |
| DELET | E NetDC Expanded | Enter the sol DC- expended for the Nghray bast (in- Vikhing) | TestinformationSubmiss iconTestinformationDetail LeftigewayRangeTestDe | NutDCE spandad Mass | . FALSE | | MIE SI | Decimal | | | | | | | Light Duor | Certification Test Data | With the new business rule for Test Procedure field (Tal) that doesn't allow values of 12" or 31" to be selected, this field will not be able to be entered by deleted from scheme or database if its assier. However, days should be deleted from formered web screens if possible. | Mennel Johanno Fran | | 1-8915 | BARILE, Realind IT by Possbary (Re) could "11" ELECTIC VENCLE ANDE HONWY), but showed observice. |
| DELET | E Bent AC Snorgy Char | Enter the stall AC encerny charge of the encoder of the start the big the start the start the | Testinformation Submises ign/Testinformation Submises isSin | TetalACChargeAkkel | EALOS | | | | | | | | | | | Continuing Test Data | With the new business rule for Test Procedure (E4) (T-8) that doesn't allow fold will not be able to be ensured by deleted from scheme or database if it so deleted from scheme or database if its deleted from scheme or database is its deleted from formend web screens if possible. | Manual Free | | 7.8915 | |
| DELET | E Bentine Alter Ingeneration | Enter the total DC Enter the total DC enter y charge of the batteries about the batteries about the batteries about the | TestinformationSubmiss ionTestinformationSubmiss inRightmayRegeTestDe talls | TetalDCChargetBack | FALSE | | NUE-EL | Decimal | | | | | | | Light Duty | Certification Test Data | With the new basiness rule for Test problem of the TCB is a solution of the transmission of TCB is a solution of the field will not be able to be ensured by deleted from scheme or database if it is askin. However, flag shadlab askin. However, flag shadlab possible. | Manuf schure Fran | ***** | THERE'S | B.BT.L. Regind I Tus Freedow (16) equit. "17" (LECTIC VERCE ANDE HOMRY), No showed obsrvice, |
| PHEV TO NEW TI-18. | st Information Only (Test Pr | Enter the number of UDDS/Highway1US06 bags/phases conducted of this test. | UDDS, Highway, US06) TestinformationSubmiss ion/TestinformationDetail sig/PHEVChargeDepletin gTestinformationDetails | TestBagPhaseCount | FALSE | 1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only) | N(2) | Integer | | | | 1 | 33 | | Light-Duty | Certification Test Data | | Manuf acture r end | A XML | NEW: LD-CTD-TI-8R064a NEW: LD CTD-TI-8R064b | NY: Repaired If has Proceeding (Ed) equals "Charge Depicting UCCO" (East Proceeding Code = "11"), "Charge Depicting UCCO" (East New York Code = "11") Charge Depicting UCCO" (East Proceeding Code = "11"), "Charge Depicting UCCO" (East Proceeding Code = "11"), "Charge Depicting 2 Cooper # PPP ("Int Proceeding Code = "11"), "Charge Depicting UCCO" (East Proceeding Code = "11"), |
| NEW TI-18: | UDOS/Highway/USO6 Bag/Phase Number | Verify-assigned number for each UDDS-HighwaytUS06 Bag/Phase for this test. | TestinformationSubmiss | TestBagPhaseNumbe | " FALSE | 1 Number of UDDS/Highway /US06 Cycles Conducted 1 per test (Test Procedure = Charge Depleting UDDS, History | N(2) | Integer | | | | 1 | 93 | | Light-Duty | Certification Test Data | | Verify From | a XML | NEW: LD-CTD-T-BR094a NEW: LD CTD-T-BR094b NEW: LD-CTD-T-BR094a NEW: LD CTD-T-BR094a NEW: LD-CTD-T-BR094a NEW: LD-CTD-T-BR094a | New Registed II has Procedure (Ed) equals "Deeps Depining UDD" (fast Procedure Code = 141"). "Charge Depining UDD" (fast Procedure Code = 141"). "Charge Depining UDD" (fast Procedure Code = 141"). "Charge Depining 32 Mayor FPBP (fast Procedure Code = 141"). "Charge Depining UDD" (fast Procedure Code = 141"). "Charge Depining 32 Mayor FPBP (fast Procedure Code = 141"). "Charge Depining UDD" (fast Procedure Code = 141"). "None (fast Procedure (Fast Procedure Code = 141")."Charge Depining UDD" (fast Procedure Code = 141"). "Charge Depining Sparser"). "Charge Depining Sparser"). "State Code = 141"."Charge Depining UDD" (fast Procedure Code = 141")."Charge Depining UDD" (fast Procedure Code = 141"). "Charge Depining UDD" (fast Procedure Code = 141")."Charge Depining UDD" (fast Procedure Code = 141"). "Charge Depining UDD" (fast Procedure Code = 141")."Charge Depining UDD" (fast Procedure Code = 141"). "Charge Depining UDD" (fast Procedure Code = 141")."Charge Depining UDD" (fast Procedure Code = 141"). "Charge Depining UDD" (fast Procedure Code = 141")."Charge Depining UDD" (fast Procedure Code = 141"). |

| Pink = TBD | Orange = Changes Due To New Technologies (Multi | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue=Misc | | | | | | | | | | | | | | | | | |
|-------------------------------|--|--|--|---|------------|---|------------|-------------------------------------|------------------|---------------|-----------------------------|-----------|--|------------|-------------------------|-----------------|--------------------------|-------------------------|--------------------|--|---|
| EPA Data Element Number | Long Name | Description | Parents Name | XML Tag | Required | Multiplicity | Basic Data | Data Type Min Description Length | Max Length Pr | attern Digits | raction Min Digits Value | Max Value | Allowed Values | Industry | Process | Notes/Durations | Origin ator | Collect ion Point | Collection Type | Applicable Business Rules | Validation Rutas |
| NEW: 11-18.4 | Recharge Event Energy (kiloWatt-hours) | Enter the actual measured energy (kiloWathours) input to the charger to recharge the vehicle battery for this test. | TestInformationSubmiss ion/TestInformationDeta siPHEV ChargeDepted gTestInformationDetails | s li RechargeEventEnerg Measure | FALSE | 1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only) | N(7,4) | Decimal | | 7 | 4 0 | 999.9999 | | Light-Duty | Certification Test Data | | Manuf acture f | Front end | XML | NEW: LD-CTD-TI-BR064a NEW: LD- CTD-TI-BR064b | NW: Repaired II Test Procedure (164) equals "Charge Depicting UDD" (Test Procedure Code = "11"), "Charge Depicting UDD" (Test Procedure Code = 11"), "Charge Depicting Highwary (Test Procedure Code = "41"), "Charge Depicting ECD1" (Test Procedure Code = "18"), "Charge Depicting ECD (Test Procedure Code = 11"), Historia II in an advance. |
| NEW: TI-18.6.1 | Charge Depleting Range (Calculated miles) | Enter the calculated charge depleting driving range (in miles) as required by 40 CFR XXX. | TestinformationSubmis: ion/TestinformationDea Isr/PHEVChargeDeplesin gTestinformationDetaEs | s ii CalculatedChargeDep etionRangeMeasure | FALSE | 1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only) | N(6,3) | Decimal | | 6 | 3 0 | 999.999 | | Light-Duty | Certification Test Data | | Manuf acture f | Front end | XML | NEW: LD-CTD-TI-BR064a NEW: LD- CTD-TI-BR064b | NEW, Registed II Tea Procedeus (Nel equals "Charge Depleting 1000" (Teat Proceders Cole = 1911; "Charge Depleting (1894" (Teat Proceders Cole = 1911; "Charge Depleting Highway (Teat Proceders Cole = 1411; "Charge Depleting (COI) (Teat Proceders Cole = 181) a" "Charge Depleting 32 Depleting PTP" (Teat Proceders Cole = 1411; advanta E IIIs not advand. |
| NEW: TI-18.6 | Charge Depleting Range (Actual miles) | Enter the actual measured charge depleting driving range (in miles) as required by 40 CFR XXX. | TestInformationSubmiss ion/TestInformationDeea y Isr/PHEVChargeDeplesin gTestInformationDetails | s ii ChargeDepletionRang eMeasure | FALSE | 1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only) | N(6,3) | Decimal | | 6 | 3 0 | 900.999 | | Light-Duty | Certification Test Data | | Manuf acture f | Front end | XML | NEW: LD-CTD-TI-BR064a NEW: LD- CTD-TI-BR064b | NRI Anaposi Taba Naciona (Rei Agusta Charge Dargening UDIF (Rei Procedus Cata 1911), Charge Darling UDIF (Rei Neurona cata), "NT Charge Rei Agusta (Charge Charge C |
| NEW: TI-18.7 | Equivalent All Electric Range (miles) | Emar the equivalent all electric range as required by California ARB's ZEV procedure. | TestinformationSubmiss ion/TestinformationDeta Is/PHEV ChargeDepletin gTestinformationDetails | s ii EquivalentElectricRa geMeasure | n FALSE | 1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only) | N(6,3) | Decimal | | 6 | 3 0 | 999.999 | | Light-Duty | Certification Test Data | | Manuf acture r | Front end | XML | NEW: LD-CTD-TI-BR064a NEW: LD- CTD-TI-BR064b | MRF, Reginal II be Presiden (164) each "Charge Depleting 1000" (Des Presiden Cole - 1911, "Charge Depleting 1004" (Des Resident Cole - 1911, "Charge Repleting Repleting Repleting Cole - 1917, "Charge Depleting 2017) (Bel Presiden Cole - 1917, or "Charge Repleting 20 Depart / 1977; "Des Presiden Cole - 1917, informa is it not allowed. |
| TI-19 | Test ResultEmission Name | Enter al applicable sud maint names (and the size, Nos the list of sait reaching and of sait reaching and concern year and and CREE and Opc-REE and concern year and and concern year and and the CRE and the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size | s s restrictionnais (on Studio s) in a star of f and share basis (of the site of f and share basis (of the site of f and basis) | r asReautridentifier | TRUE | 1Total # of Test Result Names In Lais per UDDS Cycle Number (f Test Procedure equals Charge Dapping Laisper Volto Vol | A(16) | Enumeration | | | | | n: Unio, Marchardia Series Carlos Martin Series Carlos Martin S | Light-Duty | Cestification Test Data | | Manuf acturer /LOD | Front | XML | Mini La Contination (Jupine LCOTI) Refer to All LCOTI Trialer) to LCOTI Trialer to LCOTI Trialer to LCOTI Trialer to LCOTI Trialer to LCOTI Trialer LCOTI Trialer | TLBD11: The Tas Real-Efficient Name (T1-19) served contain CO-COMP (CO STTP Compacial) or NC-MA14CX-COMP (MAC-HOX STTP Compose). TLBD11: The Tas Real/self-product (COMP (Sec State)) is a served to the Viscout of the Tas Compacy (T1-6) is need to STTP (Tas Real-self-self-self-self-self-self-self-sel |
| | Test Result/Emission Nama- Continued | | | | | | | | | | | | | | | | | | | T-13 BRs Continued | 1.4023: If Avaiptically Carried FECHE (MEED Instantion (1) 13.5) is require to 19 (b). The Fuel Type (Fig) is one of the should net specific. 33, 43, 44, 44, 71), and the TRE Photohese (TrE) requires Tard Example to activate (2, 3, 71, 75, 31, 75, 41, 40) have Tard Example to activate (2, 4, 71), and the TRE Photohese (TrE) requires Tard Example to activate (2, 3, 71, 75, 31, 75, 41, 40) have Tard Example to activate (2, 4, 71), and the TRE Photohese (TrE) requires Tard Example to activate (2, 3, 71, 75, 31, 75, 41, 40) have Tard Example to activate (3, 40, 71), and the TRE Photohese (3, 40, 70), and |
| | Test Result/Emission Name- Continued | | | | | | | | | | | | | | | | | | | Ti-19 BRs Continued | TalGot: It Analysissip Cervine FECREE (JASES) Instance (11-13,5) is equile to 19(6); 10:1 Toolfare 30); 17: EFA Datasetini, 7" (Instantia Universited 100 Ottom); 17: Munites (11-14); 10:2 Ciglocal Universited 19 FXON; 24' (Cold OD Regular Cert); 25' Cide Datasetini, 7" (Instantia Universited 100 Ottom); 17: Munites (11-14); 22' (Equat Universited 19 FXON; 24' (Cold OD Regular Cert); 25' Cide Datasetini, 7" (Instantia Universited 23, 21, 23, 23, 24, 45); No.1 Cert Paramines to a sameting with the Univers; 17-6 Regular Cert, 25' Cide Dataseting, 15' Cide Cide Cold OD Cide Data Elevence of the 19-6 Paramines to a sameting with the Univers; 17-6 Regular Cert, 20' Cide Dataseting, 15' Cide Cide Cide Dataseting, 15' Cide Cide Dataseting, 15' Cide Cide Dataseting, 15' Cide Cide Dataseting, 15' Cide Cide Dataseting, 17-5' Si, and 15' Cide Cide Cide Dataseting, 17-5' Si, and 15' Cide Cide Dataseting, 17-5' Si, and 15' Cide Cide Dataseting, 17-5' Si, and 15' Cide Cide Cide Cide Cide Cide Cide Cide |
| | Test Result/Emission Nama- Continued | | | | | | | | | | | | | | | | | | | 149 Bits Continued | Tables: If Analysically Carlind FERDERE places indicators (11-13) is sequel to 1 (No.1, Teal Foul Type (10) is 22 (23B) Places (1 dealine) and Tables (1 dealysical) (14) sequels Facility (14) sequels (23, 21, 23, 11, 25, 11, 43), teal Foul Type (10) is 22 (23B) Places (1 dealine) and Tables (1 dealine) Tables Tab |
| | Test Result/Emission Nama-Continued | | | | | | | | | | | | | | | | | | | | Nex : 17 Bar Chappy (1-12) equals "Camp Depinding" es desermined by the Sar Procedure (1-8), the Tain ResultEnsiste Name (11-1) and Integrated Ange Survey. System Start Start (2-barry Solution Soluton, 5, years Early Salar of Campo Hybrite Soluton, Activat Shall yeard Ange Survey. System Start Start and explored, discrete Sary en an annexe. Shall yeard Ange Survey Soluton Start (1-1), and the start of the Salar Soluton Soluton Soluton Solution Mark (1-1), and the start Solution Name (1-1)) equals to 72 ESE ² and 1-10 Solution Solution. ANY, IF The ResultStation Name (1-10) equals to 72 ESA (1-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (1-1) and all to be submitted. ANY, IF The ResultStatistics Name (10-10) equals to 72E SAG (1-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (1-1) and all to be submitted. ANY, IF The ResultStatistics Name (10-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is submitted, dawn Tair ResultStatistics Name (1-10) equals to 72E SAG (2-1) is SAG (2-1) equals to 72E SAG (2-1) is SAG (2-1) is submitted, dawn Tair SAG (2-1) and Tai |

| | Orange = Changes Due To New Technologies (Multi | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue=Misc | | | | | | | | | | | | | | | | | |
|---|--|---|--|--|------------|--|--------------------|--------------------------|---------|------------|--------------|--------------|--|---|------------|-------------------------|--|------------------------------------|--------------------|--|--|
| Pink = TBD EPA Data Element Number | Foals, PHEV) | Changes | Red = Misc Text Edits Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Description | Min Max | Pattern Di | tal Fraction | Min Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Origin ator Point | Collection Type | Applicable Business Rules | Validation Rules |
| | | Enser the unounded test weak for each amision man for this set. Enhand er drist set. Enhand er drist set. I a units of grams per test mission neutral mark the in units of grams per test. grams per gallon of faal digensel. | | | | 1Total # of Test Result Names in Enumeration List per UDDS Cycle Number (# Test Depleting UDDS, Highway, UDS0) else 1Total # of Test | | | | | | | | | | | | | | | |
| T1-20 | Unrounded Test Result | in units of grams per test. ORVR must be in units of grams per gallon of fuel dispensed. | TestInformationSubmiss on/TestInformationDetail s/TestDataDetails/Emissi onTestDataIts | l UnroundedReaultValue | TRUE | Result/Emissio n Names in Enumeration List | N(11,7) | Decimal | | 1 | 1 7 | 0 | 9999.9999999 | | Light-Duty | Certification Test Data | | Manuf acturer Front /LOD end | XML | | |
| NEW 11-20.5 | Fuel Economy Value Unit | Enter the applicable unit of measure for the entered full economy value(s). CNO vehicles aboutd select fixed economy units of "MPG". | TestinformationSubmiss lor/TestInformationDeta la/TestDataDetails TestInformationSubmiss lor/TestInformationDeta | i PustEconomyVabueUr ddenoffer | FALSE | 1 per Test | A(8) | Enumeratio | 3 8 | | | | | NPO = niles per gallon (default) NPX = niles per Slargram XP4HITIOMEES = kliowath-hour per eile | Light-Duty | Certification Test Data | FE Units might be changing with the new FE Label rule | Front Mfr End | XML | NEW: LD-CTD-TI-BR038 NEW: LD-CTD-TI-BR039 NEW: LD-CTD-TI-BR040 | NEW. If Original has Vehicle Model Year (NVT) is signal to or greater than 2012 and 2 any values astronated for has Republication Name (RVT) is equal to WFR FC + VE Bol Y = VF Bol Y = VF Bol Y = VF Bol Z + VF Bol Z + VF Bol Y = VF |
| NEW 11-20.6 | Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value EPA Confirmatory Test E | mile per gallon equivalent for non-MPG fuel economy values Exhaust Emission Cert I | ormationDetails/EPAGe neratedEmissionTestDe ails Level Information | t FuelEconomyMPGEqu ivalentValue | FALSE | 1 per Test Result/Emissio n Name | N(11,7) | Decimal | | | 1 7 | 0 | 9999.9999999 | | Light-Duty | Certification Test Data | | Verify Back End | Assigned | | Galone Espirations Value (13:20.5) equations the value submitted for Unrounded Test Result (15:20) if the Test Result/Emission Name (11:19) is equal to MRR FE' or 'FE BAO 1' or 'FE BAO 2' or 'FE BAO 3' or 'FE BAO 4'. |
| TI-38 | | very win isolate and unnounded user traulists for unnounded user traulists for the state test number of digits phase one comesponding emission standard (thore was escolated in contaction). Then have the DF applied (that was entence to () to calculate the () to calculate the distance of the state of the applied (that was entence to () to calculate the distance of the state of the distance of the state of the state of the calculate the distance of the state | | s 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | d FALSE | 1 for each provided unrounded emission result (via teat number) for which a corresponding emission standard is provided on the CT Supplemental Information. | N(11.7) | Decimal | | 1 | 1 7 | 0 | 9900 9999090 | | Light Duty | Certification Test Data | Must wa ASTM konding methodology Don't read tengagata direp-baos, signal sa taba ang dang Wan- Nasa ang dang dang dang dang dang dang bagi sa tabagata dang | Back Veifty End | Asignad | | |
| NEW 11-19-5 | Verily-Calculated CREE | Verfly-calculated carbor related activate optional carbor-selated exhaust emissions vaakaly with deterioration factors optional. | Teadhormation Submis Ieo/TeathormationSub IsiEFAGourraetaGeo | carbonRelate dE share | e FALSE | 1 per Tess | N(11,7) | Decimal | | | 1 7 | 0 | 9999 9999999 | | LighsDuty | Certification Test Data | This data structure to supported in the share Proteins. CREE or operator CREE will be CREED and the comparison of the support of the comparison of the support CREED and the comparison of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the supp | Verify Back | Assigned | | Not for DP software year. J Process code (S-L) is even in "the Casas" and (Copyral Bar White Made Yay (Cr) Is each software and active used exception of the software in the two casas" and is copyrate the transition of the Copy State (S-L), "S PER DEC. IS COPY EXAMPLE TEXT) or YWY, has Very Casades CRES or Opcides (15:45) is each of the Very State of the other of |
| NEW 11-13-6 | Verily Calculated Ops CREE | Verify-sissand opional carbon-sized exhaust emission value with deterioration | TestiformationSubmis ior/TestiformationSubmis INEPA Generate(Section Intel A Generate(Section) | OptionsiCarbonRelate dE-hatsEmissionVa se | FALSE | 1 per Test | N(11.7) | Decimal | | 1 | 1 7 | 0 | \$200.000000 | | Light-Duty | Cartification Test Data | This data stemant is supported in the first Palaesan. ORE or optional CREE will be acclusted by Virty (Palae) CREE on protocol (Palaesan) CREE on protocol (Palaesan) CREE on protocol (Palaesan) Manual CREE on the protocol optional CREE (Palaesan) Manual CREE on the protocol optional CREE (Palaesan) Manual CREE and Optional Manual Man | Verify End | Assigned | | NPF. For IPA confirmatory tasts. If Process Code (IR-8) is again to "New Dataset" and if Original That Variation Bookt Year (Vi-7) is equal to regardless that TS status - TS experience (TS - 4) is equal to "Proce Dataset" and if Original That Variation (R) (For TS - 4) and (Fo |
| TI-39 | Certification Level | Verify will calculate cert levels for EPA confirmatory tests by applying the DF submitted in the Supplemental Information dataset to each rounded emission result. | TextinformationSubmiss on/TextinformationDetai stEPAGeneratedTextinfor mationDetails/EPAGener atedExhaustDetails | é ir r CalculatedCertification LevelValue | FALSE | 1 for each calculated Rounded Emission Result | N(8,4) | Decimal | | | 8 4 | 0 | 9999.9999 (note- one additional ligit was added to the left of the decimal) | | Light Duty | Certification Test Data | Verify BE Rule: NEW: If Test Category (T 43) = "00" (Charge Depleting), then Carificato Level (Ti-39) is not to be calculated. | Back Verify End | Assigned | NEW | |
| TI-40 | | | TasthomasionSudminis or TasthomasionDouts of PADanament and Statistic PADanament and Statistic adordbatastatist | s 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | FALSE | 1 for each calculated Con Level | A(4) | Enumeration | | | | | | Paur - Carl Levil -> Standard Fail - Carl Levil -> Standard | Light Duty | | Worky DE Duck HE'M: If You Providence (TH) is equily an 'Charge Deploying (DE) 'Tell Processor (Date + 13), 'Charge Ducking Hydraw', Tfan 'Dange Ducking Hydraw', Tfan (Date + 13), Sen Carlon and Hydraw (Date + 13), Sen Carlon | Vedly End | Asigned | NEW NEW | |

| Office of Transportation | and Air Quality |
|--------------------------|-----------------|
| | 6/4/2012 |

| Pink = TB | Orange = Changes Due T New Technologies (Mult Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue=Misc Certification Changes | | | | | | | | | | | | | | | | | |
|-------------------------------|--|---|--|---|-----------|--|--------------------|--------------------------|-------------------------|-------------|-------------------------------|-------------------------|--|--|------------|-------------------------|---|---------------------|------------------|---------------------------|------------------|
| EPA Data Element Number | Long Name | Description | Parents Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Description | Min Max ength Length | Pattern Dig | tal Fraction its al Digits | n <u>Min</u> s Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | igin ion tor Poi | nt Type | Applicable Business Rules | Validation Rules |
| TI-41 | Rounded Emission Result | official certification levels. | k na h | r r RoundedEmissionResu | f FALSE | 1 for each provided unrounded emission result (via test number) for which a corresponding emission standard is provided on the CSI. | N(11,7) | Decimal | | 1 | 1 7 | 0 | 9599, 99999999 | | Light Duty | Certification Test Data | Murz van ASTM sounding methodology. V | Ba: aify En | ik d Assigned | | |
| T1-42 | Cert Level | Verify will calculate cer levels by applying the D to each rounded emission result. | t on/TestInformationSubmisa t on/TestInformationDetai DF s/EPAGeneratedTestInfo mationDetails/EPAGene atedEvaporativeDetails | r CalculatedCertification | FALSE | 1 for each calculated Rounded Emission Result | : N(8,4) | Decimal | | | 4 | | 9999.9999 (note- one additional digit was added to the left of the decimal) | | Light Duty | Certification Test Data | v | Bas affy En | sk d Assigned | | |
| Ti21 | Certification disposition code | confirmatory tests only. | 90 15 16 11 | r r CertificationDisposition Code | FALSE | 1 for each calculated Cen Level dois at feast one | A(4) | Enumeration | id test cateogry. | | | | | Peer-Certivel - Socied Fail-Certivel - Socied | LightDuty | | Verify will compare the Calculated Care Level with the companying standard and will be the August Michaeut to the theory of the Calculated Standard Standard and a calculated Standard Standard Standard Hard Care Landard Standard Standard Standard Hard Care Landard Standard Standard Standard Teal: Teal: Long of calculate and the LOD confinitency tasks not for tasks anomatic by the mit. The particulated calculation for LOD confinitency tasks not for tasks anomatic plantard standards of the standard Careford Standa | Bat affy en | | | |
| Ti-43 | Test Catagory | This field will automatically be filled band on the tait person's year. The second with the second with the second second with the second second second required for these second categories. | TestInformationSubmiss | TestCatagorykšentilie | TRUE | 5 per test | A(6) | Enumeration | | | | | | PTP - Tacked Tar Rockher GRI - 1958 CO3 - 500 WT - 1959an XA CO3 - 500 WT - Spicas XA CO3 - 500 WT - 500 W | Light Duty | Certification Test Data | The label of all constrained by the filled hand on the supportance (p. 1-Tar 2 and | Bat Affy En | | | |
| TI-44 | Test Fuel Category | This field will automatically be filled based on the Test Fuel Type (TI-0) in "Test" section) associated with the test number. A valid test number is nequired for these fuel categories. | TestInformationSubmiss | i r TestFuelCategoryldent fier | i TRUE | 1 pertest fuel type | A(3) | Enumeration | | | | | | Electricity CNG = Natural Gas D = Disael E = Ethanol G = Gasoline H = Hydrogen LFG = LFG W = Methanol | Light Duty | Certification Test Data | $\begin{array}{l} \textbf{H}=\textbf{E}_{1}=62\\ CN0=10,41\\ D=9,19\\ E=36,37,38,43,44,45,71\\ G=1,6,7,8,22,23,24,25,26,27,61\\ H=50\\ LPO=42\\ M=31,32,33,34 \\ V\end{array}$ | Back arity d | en Assigned | | |
| NEW: TI-45 | Test 5-Cycle Category | | Tes&nformationSubmiss ios/TestinformationDeta Isi/EFAGeneratedTestin ormationDetails | Test5CycleCategoryfd nolfer | TRUE | 1 per last procedure | A(5) | Enumeratio | | | | | | (1975) = Padata Tac Proceeders (13. V) (1975) = Ander Tac Proceeders (13. V) (1975) = Uson (1975) (2015) = Uson (1976) (2015) = Mit School (2015) | Light Duty | Certification Test Data | The field will automatically be filled tasked on the strip processing (n - That's section) associated with the strip number. A valid task tasked with the strip section associated with the strip section associated with the strip section associated associated associated (1977) = 1, 25, 31, 35, 41, 45 (1977) = 5, 27, 25, 31, 45 (1977) = 5, 27, 27, 31, 35, 41, 45 (1977) = 5, 27, 27, 31, 45 (1977) = 5, 27, 27, 31, 35, 41, 45 (1977) = 5, 27, 27, 31, 35, 41, 45 (1977) = 5, 27, 27, 31, 35, 41, 45 (1977) = 5, 27, 27, 31, 45 (1977) = 5, 27, 27, 27, 37, 37, 37, 37, 37, 37, 37, 37, 3 | Bac | k d Assigned | | |

| Pink = TBD | Orange = Changes Due To New Technologies (Multi Fuels, PHFV) | Green = Label/CAFE/OHG Channes | Red - Misc Text Felix | Rive - Misc Certification Channes | | | | | | | | | | | | | | | | |
|-------------------|--|--|--|-----------------------------------|-----------|--------------------------------|-------------------|--------------|-------------|--|---------------|------------|---|------------|-------------------|--|------------------|-----------------------------------|---|---|
| Data elemen | | | | | | | Basic Data Dat | ta Type | din Max | | Total onel | Min Me | | | | | Originat | Collecti on. Collecti | | |
| number Manufac | Long Name urer Confirmatory Test Decisi Vehicle Information | Description. | Parert's Name manufacturerConfirmatoryTestDescisionInfo | XML Tap. | Required. | Multiplicity | | cription. Le | ngth Lergth | Pattern | Digits Digits | Value, Val | ue, Allowed Values. | Light Duty | Process | Notes/Questions | a | on Collecti Point n Type | Applicable Business Rule | L. Validation Rulas |
| | | Select the desired process code for | main accurate community (carola carolina o | | | 1 per Conf Test | | | | | | | Look-up Values. N = New dataset | | | | | | | |
| DI-0.5 | Process Code | Select the desired process code for the current submission. | DecisionInformationSubmission/DecisionInformationDetails | InformationProcessCode | TRUE | Information | A(1) Enur | meration | 1 1 | | | | N = New distrist C = Correction of existing Verify dataset | Light-Duty | Confirmatory Test | | cturer | Front End XML | | |
| | | | | | | | | | | | | | | | | | | | | DI-BR1: Manufacturer Code (DI-1) must exist in the system. DI-BR4: The Manufacturer Code (DI-1) must match the manufacturer code embedded in |
| | | | | | | | | | | | | | | | | | | | | the Test Group (DI-7). DI-BRS: The Manufacturer Code (DI-1) must match the manufacturer code embedded in |
| | | | | | | | | | | | | | | | | | | | | the Evaporative/Refueling Family (DI-8). |
| | | | | | | | | | | | | | | | | | | | | DI-BR10: If Process Code (DI-0.5) is equal to 'R' (Report) or 'C' (Correction), then a record must already exist in the system with the same Vehicle ID (DI-3), Vehicle Configuration (DI- 4), and-Manufacturer Code (DI-1), and Model Year (DI-5). |
| | | | | | | | | | | | | | | | | | | | | DI-BR11: If the Process Code (DI-0.5) is equal to TV (New), the Manufacturer Code (DI-1), Vehicle ID (DI-3), and Vehicle Configuration Number (DI-4) must reference a vehicle currently active in the system. |
| | | | | | | | | | | | | | | | | | | | | DI-BR16: If the Process Code (DI-0.5) is equal to 'R' (Report) , then the Manufacturer Code of the Submission Author Datails must match the Manufacturer Code (Di-1) of the dataset for which the report was requested. |
| | | The manufacturer code will be determined from the data submitter's | | | | | | | | | | | | | | | | | LD-CFT-DI-BR001 LD-CFT-DI-BR004 | DI-BR17: If the Process Code (DI-0.5) is equal to 'N' (New) or 'C' (Correction) then the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (Di-1) of thesubmitted datases. |
| | | determined from the data submitter's CDX user login profile. The manufacturer code is an alpha- numeric code which identifies a | | | | | | | | | | | | | | | CDX | | LD-CFT-DI-BR005 LD-CFT-DI-BR010a LD-CFT-DI-BR011 | DI RE11: Il Resource Code (DI 0 E) is count to 34 direct these a second assess already |
| DI-1 | Manufacturer code | unique vehicle manufacturer. This code is assigned by EPA during the manufacturer senistration numers. | Danision Information Schmission (Danision Information Datails | EPAManufacturerCode | TRUE | 1 per Conf Test Decision | A/21 5 | lting | | (A-Z0- 9)(3) | | | | Light Duty | Confirmatory Test | | From Users | Front XMI | LD-CFT-DI-BR016 LD-CFT-DI-BR017 LD-CFT-DI-BR019 | exists in the system with the same Vehicle ID (Vel), Vehicle Configuration (ID-4), and Manufacturar Code (DI-1) and Model Year (DI-5), unless it is in the "Waived", "Completed" or "Deleted" states. |
| | | The manufacturer name will be looked up from the Manufacturer | | | Thus. | | <i>164</i> | All the | | - 14 | | | | -9 | | | | | | |
| | | Info table in Verily using the manufacturer code from the data submitter's CDX user login profile. The manufacturer name is the name | | | | | | | | | | | | | | | | | | |
| | | The manufacturer name is the name of the vehicle manufacturer that is associated with the manufacturer | | | | 1 per Conf Test Decision | | | | | | | | | | | | Pre- Back Existing End Data | | |
| DI-2 | Manufacturer Name | code. Enter the applicable test vehicle identification number for this set of | NIA | NA | FALSE | Information | A(40) S | String | 1 40 | | | | | Light Duty | Confirmatory Test | | Verify | End Data | | DI-BR10: If Process Code (DI-0.5) is equal to 'R' (Record) or 'C' (Correction), then a record |
| | | confirmation test decision information. The vehicle ID is a unique, manufacturer-defined, alpha- numeric identification number that is | | | | | | | | | | | | | | | | | | must already exist in the system with the same Vahicle ID (DI-3), Vehicle Configuration (DI- 4), and Manufacturer Code (DI-1), and Model Year (DI-5). |
| | | numeric identification number that is assigned to each manufacturer test vehicle. The combination of test | | | | | | | | | | | | | | | | | | DI-BR11: If the Process Code (DI-0.5) is equal to 'N' (New), the Manufacturar Code (DI-1), Vehicle ID (DI-3), and Vehicle Configuration Number (DI-4) must reference a vehicle currently active in the system. |
| | | vehicle ID and vehicle configuration | | | | | | | | | | | | | | | | | | |
| | Vehicle ID | established in Verify's Test Vehicle Information database prior to submitting its confirmatory test | | | | 1 per Conf Test Decision | | | | | | | | | | | Manufa | Front End XML | LD-CFT-DI-BR010a LD-CFT-DI-BR011 LD-CFT-DI-BR019 | DI-BR10: II Process Code (D14.5) is equal to 'N (New), then a record cannot already exist in the system with the same Vehicle II (D1-3), Vehicle Configuration (D1-4), and Manufacture Code (C1-1) and Model Year (D1-5), unless it is in the "Waived", "Completed" or "Deleted" states. |
| DI-3 | Vehicle ID | decision information. | DecisionInformationSubmission/DecisionInformationDetails | VehicleIdentificationText | TRUE | Information | A(20) 5 | String | 1 20 | | | | | Light Duty | Confirmatory Test | | cturer | End XML | LD-CFT-DI-BR019 | |
| | | Enter the approxime test vende configuration number for this set of configuration number for this set of information. The vehicle configuration number is used to denote multiple configurations of a single test vehicle ID. The set | | | | | | | | | | | | | | | | | | DI-BR10: If Process Code (DI-0.5) is equal to 'R' (Report) or 'C' (Correction), then a record must already exist in the system with the same Vehicle ID (DI-3), Vehicle Configuration (DI- 4), emet Manufacture Code (DI-1), and Model Year (DI-5). |
| | | configuration number is used to denote multiple configurations of a circle text which ID. The | | | | | | | | | | | | | | | | | | 1, and animation Code (01-1), and another real (01-0). DI-BR111 If the Process Code (01-0.5) is equal to 'N' (New), the Manufacturer Code (DI-1), Vehicle ID (DI-3), and Vehicle Configuration Number (01-4) must reference a vehicle |
| | | vehicle configuration number | | | | | | | | | | | | | | | | | | currently active in the system. |
| | | Varify's Test Vahicle Information database prior to submitting confirmatory test decision | | | | 1 per Conf Test Decision | | | | | | | | | | | Manufa | Fourt | LD-CFT-DI-BR010a | DI-BR10: II Process Code (D14.5) is equal to 'N (New), then a record cannot already exist in the system with the same Vehicle II (D1-3), Vehicle Configuration (D1-4), and Manufacture Code (C1-1) and Model Year (D1-5), unless it is in the "Waived", "Completed" or "Deleted" states. |
| DI-4 | Vehicle Configuration # | information. | DecisionInformationSubmission/DecisionInformationDetails | VehicleConfigurationNumber | TRUE | Information | N(2) Ir | neger | 1 2 | | | 0 91 | 2 | Light Duty | Confirmatory Test | | cturer | End XML | LD-CFT-DI-BR010a LD-CFT-DI-BR011 LD-CFT-DI-BR019 | |
| | | | | | | | | | | | | | | | | | | | | DI-BR2: The Model Year (DI-5) must match the model year embedded in the Test Group (DI-7). |
| | | | | | | | | | | | | | | | | | | | | DI-BR3: The Model Year (DI-5) must match the model year embedded in the Evaporative/Refueling Family (DI-8) |
| | | | | | | | | | | | | | | | | | | | | Di-BR10: If Process Code (DI-0.5) is equal to 'R' (Report) or 'C' (Correction), then a record must already exist in the system with the same Vahicle ID (DI-3), Vahicle Configuration (DI- 4), and Manufacturer Code (DI-1), and Model Year (DI-5). |
| | | | | | | 1 per Conf Test | | | | | | | | | | | | | LD-CFT-DI-BR002 LD-CFT-DI-BR003 | DI-BR19: If Process Code (DI-0.5) is equal to 'N' (New), then a record cannot already |
| DI-5 | Model Year | Enter the base model year for which the vehicle is being tested. | DecisionInformationSubmission/DecisionInformationDetails | ModelYear | TRUE | Decision Information | D(4) | Date | 4 4 | | | 1970 205 | 50 | Light Duty | Confirmatory Test | | Manufa cturer | Front End XML | LD-CFT-DI-BR010a LD-CFT-DI-BR019 | exist in the system with the same Vehicle ID (DI-3), Vehicle Configuration (DI-4), and Manufacturer Code (DI-1) and Model Year (DI-5), unless it is in the "Waived", "Completed" or "Deleted" states. |
| | | The represented test vehicle make | ToesVahielobelermationSubmission/ToesVahieledelermation- | | | 1 per Conf | | | | | | | | | | VI-8 This change must be made on Verify front end | | Pre- | | |
| NEW DI-5.5 | tepresented test vehicle nake | (aka division name) for this test vehicle configuration. | Denamarvenick ConfigurationDenalis/Vehick/DescriptionDeta- its | ActualTestVehicleMakeText | TRUE | Test Decision Information | A(20) S | string | 1 20 | | | | | Light-Duty | Confirmatory Test | and back end web screens but no changes are needed to the XML Schema VI-9 | Verify | Back Existin End Data | a n/a | Na |
| NEW | Represented test vehicle | The represented test vehicle model (aka carline name) for this test | Toes Vahiele Mermation Submission / Toes Vahiele deformation - Detaile Mehiele Configuration Detaile Mehiele Decertories Data | | | 1 per Conf Test Decision | | | | | | | | | | This change must be made on Verify front end and back end web screens but no changes | | Pre- Back Existin | | |
| DI-5.6 | nodel | vehicle configuration. Enter the actual carline/model name represented by this test | ## | ActualTestVehicleModelTest | TRUE | Information 1 per Cord Test | A(50) S | String | 1 50 | | | | | Light-Duty | Confirmatory Test | This change must be made on verify iron and and back end web screens but no changes are needed to the XML Schema This change must be made on Verify front end | Verify | End Data | nla | Na |
| DI-6 | Actual Vehicle Model Name (Carline) | name represented by this test vehicle. | DecisionInformationSubmission/DecisionInformationDetails | VehicleModelText | TRUE | Information | A(50) 5 | Btring | 1 50 | | | | | Light Duty | Confirmatory Test | and back end web screens but no changes are needed to the XML Schema | cturer | Front End XML | + | DI-BR2: The Model Year (DI-5) must match the model year embedded in the Test Group |
| | | | | | | | | | | (A-HJ- NPR- TV-Y1- | | | | | | | | | 1 | (DI-7). DI-BR4: The Manufacturer Code (DI-1) must match the manufacturer code embedded in |
| | | Enter the test group for which this set of confirmatory test decision | | | | | | | | 9](1)[A- Z0- 9][4,11 | | | | | | | | | | the Test Group (DI-7). DI-BR8: The displacement embedded in the Test Group (DI-7) must be a valid number. |
| | | or continued y test backson information will be used to demonstrate compliance with the applicable exhaust emission | | | | 1 per Conf Test Decision | | | | 9[[4,11)([%][A- Z0- 9[[1,6]] | | | | | | | Manufa | Front | LD-CFT-DI-BR002 LD-CFT-DI-BR004 LD-CFT-DI-BR006 DI-BR7 | DE BR7: For model years 2010 and later, the industry code embedded in the 5th character of the Test Group (DK7) must reference a valid industry code |
| DI-7 | Test Group | standards. | DecisionInformationSubmission/DecisionInformationDetails | TestGroupName | TRUE | Information | A(12) 5 | String | 12 12 | 2 | + | -+ | | Light Duty | Confirmatory Test | | cturer | End XML | DI BR7 | |
| | | | | | | | | | | | | | | | | | | | 1 | DI-BR3: The Model Year (DI-5) must match the model year embedded in the Evaporativa(Refueling Family (DI-8) |
| | | | | | | | | | | (A-HJ- NPR- TV-Y1- | | | | | | | | | | DI-BRS: The Manufacturer Code (DI-1) must match the manufacturer code embedded in the Evaporative/Refueling Family (DI-8). |
| | | Enter the evaporative/refueling family for which this set of confirmatory test decision information will be used to | | | | | | | | 9](1)[A- Z0- | | | | | | | | | 1 | DI-BR8: The cariater working capacity embedded in the Evaporative/Refueling Family (DI- 8) must be a valid number. |
| | Evaporative/Refueling | demonstrate compliance with the applicable evaporative/refueling | | | | 1 per Conf Test Decision | | | | 9](4)(0- 9](4)(A- 20- | | | | | | | Manufa | Front | LD-CFT-DI-BR003 LD-CFT-DI-BR005 LD-CFT-DI-BR008 | Di BRO: The Evoperative Family type ambedded in the Evoperative Refueling Family (Dt) Is must be valid |
| DI-8 | Family | standards. | Decision/nformationSubmission/Decision/InformationDetails | EvaporativeRefuelingFamilyName | FALSE | Information | A(12) 5 | String | 12 12 | 9](3) | | | | Light Duty | Confirmatory Test | 1 | cturer | End XML | DIBRO | |

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| dement | | | | | | | Basic Data Do | ta Type Mit | <u>Max</u> | То | tal onal M | Vin Max | <u>×</u> | | | | Originat | ollecti on Colle Point n Ty | aio | |
|--------------------------------|-------------------------------------|--|--|---|----------|--|------------------|----------------|------------|--|-----------------|-----------|--|------------|-------------------|--|------------------|-----------------------------------|---|--|
| number L Manufacturer Confi | ong Name irmatory Test Decision | Description | Parent's Name | XML Tag | Required | Multiplicity | Type De | scription_Leng | th Lergth | Pattern Dig | igits Digits Vi | alue Valu | Allowed Values | Light Duty | Process | Notes/Questions | <u>er</u> | Point n Ty | pe Applicable Business Rules | Validation Rulas |
| Federal | zyhaust Emission | Saked the applicable values | | FederalEthausEmissionStandarddwn | | 1 par Conf Test Decision | | | | | | | Loss and Vision Loss and | | | | Manufa | Front | | (2-8112). At least ow Faderal Enhance Enhance Standard Level (D-6) or California |
| Di-9 Sta | ndard Level | epresenting EPA's exhaust emission standard level. | DecisionInformationSubmission/DecisionInformationDetails | fier fier | FALSE | Information | A(4) Enu | meration | | | | | 17.00 GVH) OT = 00er Lock-Up Values L2 = LEV-II LEV L2OP = LEV-II OPT 1 | Light Duty | Confirmatory Test | | cturer | Front End XN | L LD-CFT-DI-BR012 | Exhibits de Prinsien d'air realisie d'alla d'alla d'anna d'anna Anna d'anna d |
| California Di-10 Sta | Exhaust Emission Indard Level | Select the applicable value spresenting California's exhaust emission standard level. | DecisionInformationSubmission/DecisionInformationDetails | CAExhaustEmissionStandardIdemilier | FALSE | 1 per Conf Test Decision Information | A(4) Ens | meration | | | | | U2 = LEV-II ULEV 82 = LEV-II SULEV 2EV = CARB. ZEV OT = Other I | Light Duty | Confirmatory Test | | Manufa cturer | Front End X0 | LL LD-CFT-DI-BR012 | DI-BR12: At least one Federal Exhaust Emission Standard Level (DI-0) or California Exhaust Emission Standard Level (DI-10) must be selected. |
| Feder DI-11 Emission | al Evaporative n Standard Level | Select the applicable value epresenting EPA's evaporative mission standard level. | DecisionInformationSubmission/DecisionInformationDetails | FederalEvaporativeEmissionStandards Identifier | FALSE | 1 per Conf Test Decision Information | A(5) Enu | meration | | | | | Lock-Lib Valvan T1 = TIER T EVAP T2 = TIER 2 EVAP HD-20 = Haavy-Daty 2-Day Evap (1.75 grams) HD-30 = Haavy-Daty 3-Day Evap (1.4 grams) OT = Other 1 I | Light Duty | Confirmatory Test | | Manufa cturer | Front End XN | L | |
| Californ DI-12 Emission | nia Evaporative n Standard Level | Select the applicable value epresenting California's evaporative amission standard level. | DecisionInformationSubmission/DecisionInformationDetails | CAEveporativeEmissionStanderdsIden tifier | FALSE | 1 per Conf Test Decision Information | A(2) Env | meration | | | | | Look-Up Values C2 = LEV-II Evap 22 = LEV-II Zaro Evap OT = Other I | Light Duty | Confirmatory Test | | Manufa cturer | Front End XX | L. | |
| Di-13 | w meeting test decision | Did EPA request a confirmatory test or this vehicle during the preview meeting? Answer 'Y' if yes, otherwise 'N. | Decision/rformationSubmission/Decision/informationDetails | PreviewTestDecisionIndicator | TRUE | 1 per Corll Test Decision Information | A(1) Enu | meration | | | | | Lock-Up Values : Y = Yes N = No | Light Duty | Confirmatory Test | | Manufa cturer | Front End XX | | |
| DI-14 New engin | ne/new technology | Does this test vehicle use a new angine or new technology? Answer Y'if yes, 'YT'if yes, but the new angine/technology has already been ested by EPA, otherwise 'N'. | DecisionInformationSubmission/DecisionInformationDetails | NewTechnologyIndicator | TRUE | 1 per Conf Test Decision Information | A(2) Enu | meration | | | | | took-Ido Values : Y = Yes YT = Yes, but previously tested N = No I | Light Duty | Confirmatory Test | | Manufa cturer | Front End XX | L. | |
| New engin | ne/new technology I description | Enter a description of the new angine or new technology. | DecisionInformationSubmission/DecisionInformationDetails | NewTechnologyDescriptionText | FALSE | 1 per Conf Test Decision Information | A(100) | String 1 | 100 | | | | | Light Duty | Confirmatory Test | | Manufa cturer | Front End XX | L LD-CFT-DI-BR013 | DI-BR13: If New Engine or Technology Indicator (DI-14) is equal to 'Y' (Yes) or 'YT' (Yes, but previously tested) then New Engine or Technology Description (DI-15) is required. |
| Replac DI-16 | ement for failed vehicle | s this test vehicle a replacement for a vehicle which has previously failed an emission standard at EPA or the manufacturer's test facility? Answer Y' if yes or 'N' if no. | | Failed/eticleReclacementIndicator | TRUE | 1 per Conf Test Decision | | | | | | | Look-Up Values : Y = Yea N = No | Light Duty | Confirmatory Test | | Manufa | Front End X0 | | |
| DI-16 | | T in yea of N in the. Does this tast meet the criteria for a observation of the second sec | Lecelon normal on Succession Decision normal on Decision norma | Panovenovepacementrocator | TRUE | 1 per Cont Test Decision | A(1) Env | menation | | | | | N II NO II Look Ilo Values V = Yea | Light Duty | Commercy rest | | | | | |
| DI-25 Potenti DI-25.1 | ial gas guzzler? | | DecisionInformationSubmission/DecisionInformationDetails | PotentialGasGuzzlerIndicator | TRUE | Decision Information 1 per Conf Test | A(1) Enu | meration | | | | _ | N = No I | Light Duty | Confirmatory Test | | | Front End XN | L | |
| (NEW) Vehi DI-25.2 | | nanufacturer. s this test vehicle configuration an Emission Data Vehicle or a Fuel Economy Data Vehicle? Dest this set of Confirmatory Test Decision Information support a | DecisionInformationSubmission/DecisionInformationDetails | VehiclePurposeldentifier | TRUE | Information 1 per Conf Test Decision | A(4) Enu | meration | | | | | 1 = Emission Data Vehicle (EDV) 31 = Fuel Economy Data Vehicle (FEDV) Lock-Jo Vahas: Y = Yes | | Confirmatory Test | | courier | Front End X0 | L | |
| (NEW) Run | ning Change? | vacuum information support a unning change? This set of Confirmatory Test Decision Information supports a unning change, enter the running change number. | DecisionInformationSubmission/DecisionInformationDetails | RunningChangeIndicator | TRUE | Information | A(1) Enu | meration | | | | _ | N = No | | Confirmatory Test | | Manufa cturer | End XN | | |
| DI-25.3 (NEW) Running | g Change Number | unning change, enter the running change number. | DecisionInformationSubmission/DecisionInformationDetails | RunningChangeNumberText | FALSE | 1 per Conf Test Decision Information | A(25) | String | | [1. | | | | | Confirmatory Test | | Manufa cturer | Front End X0 | L LD-CFT-DI-BR014 | DI-RR14: If Running Change (DI-25.2) is equal to 'r' (Yss) then Running Change Number (DI-25.3) and Running Change Date (DI-25.4) are required. |
| DI-25.4 (NEW) Runnir | ng Change Date | I this set of Confirmatory Test Decision Information supports a unning change, enter the date of he running change letter. Ther the earliest date the test | DecisionInformationSubmission/DecisionInformationDetails | RunningChangeDate | FALSE | 1 per Conf Test Decision Information | D(8) | Date | | 28(1)(0- 98(3)(0- 1)(1)(0- 98(1)(0- 3)(1)(0- 98(1)) 98(1) | | | | | Confirmatory Test | | Manufa cturer | Front End XN | LL LD-CFT-DI-BR014 | Di 88144. If Running Change (DI-55.2) is equal to 'Y (Yes) than Running Change Number (DI-55.3) and Running Change Date (DI-55.4) are required. |
| | | Inter the carriest date the test which could be delivered to EPA or confirmatory testing. EPA's aboratory Operations Division will use this information when assigning test date if this test vehicle is selected for EPA confirmatory content. | | | | 1 per Coril Test Decision | | | | [1- 2](1)(0- 9](3)(0- 1](1)(0- 9](1)(0- 3](1)(0- 3](1)(0- 0)(1) | | | | | | | | | | |
| DI-17 Test Proc | cedure Information | warrig. | DecisionInformationSubmission/DecisionInformationDetails manufacturerConfirmatoryTestDescisionInfo | EarliestArriva/Date | TRUE | Information 1_0 | D(8) | Date 8 | 8 | 9](1) | | | 1 | Light Duty | Confirmatory Test | | Manufa cturer | Front End XN | | |
| DI-17.5 T6 | est Number | Their all applicable lost numbers for his loss and projection list and vigous combination. This is a unique transfer adapting of Vietily to works. Characters 1 is the Model results. Characters 1 is the Model related to loss use configuely run for, Characters 2 - 5 are the Manufacturer code followed by a Salah, dharacters 6 -12 are the applies with 3 is an EPA loss, any other number is a manufacture result. Sagins with 3 is an EPA loss, any other number is a manufacture re- sults. | Person Homaton Character Cherson Homaton Databilit en Proceduration musico Cherson Homaton Databilit | TeatNumberderdiser | TRUE | 1 per test procedure/test fuel type combination per Conf Test Decision Information | A(12) Foo | d String 12 | 12 | | | | | | Confirmatory Test | | Manufa cturar | Front End 30 | LD-OFT-DI-BRV15 NEW: LD-OFT-DI-BRV15 NEW: LD-OFT-DI-BRV12 | DABITS Tear Number (D-175) must exist in the system. NET IF March Your (D-175) in support of the system of the sy |
| | | Ener al applicable sur procedures for own another of the Same | | TauPousbuidkuitte | TRUE | 1 por last procedings hall type continuation per Cont Teal Decision | N(2) 5 | meration | | | | | Constrained and an | Light Duty | Confirmatory Test | This should be thy same for an T-16 in Taut Information | Verify | Pr exis Back End 34 | | |

| ffice of Transportation a | nd Air Quality |
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| Data elemen <u>I</u> <u>Long Name</u> Manufacturer Confirmatory Tota D | Description | Parent's Name_ | XML Tag | Required Multiplicity_ | Basic Data Data Type Min Max To Type Description Length Pattern Dir | Fract Min. Max and out Min. Max Allowed Values. | Light Duty | Process | Notes/Questions | Originat Collecti or Point | Collectio n Type | Appticable Business Rules |
|--|--|--|--|--|---|--|------------|-------------------|--|--|----------------------------------|---|
| Do 19 Test Full type code | Enter the numeric hall type code beneficial to the type code in the standard to the type code in the procedure. | | TesfutTyscCoa | T per test proceed as held but type contribution per Conf Test Decision TRUE Information | N2 Execution | | Light Duty | Confirmatory Test | | Back Verify End | Pre- existing Data XX8L | |
| | This is a system generated field based on the value entered for the on 'Test Fael Type Code'. | Na | e/a | t per Test Fuel Type Code per Test Procedure/Test Fuel Type Combination per Conl Test Decision FALSE | A(40) String 1 40 | | Light Duty | Confirmatory Test | | | Pre- Existing Data | |
| Mir. confirmatory tes required for mir. see Di-21 procedure ? | Does this set of confirmatory test decision information meet the relates in the CFR that defines when a maindiscurse ordinatory test or the required? Answer "for "yea" or "N to "rot". This addition must be answered for each test procedure conducted by the menufacture. | DescentionationDescenterationDeals/T entProcedurationDeals | Manufacture/Tes/Requiredindicator | 1 per test procedure/test fuel type contination per Cort Test Oction TRUE Information | A(1) Enumeration 1 1 | Lande Da Valana. V = Yea N = NO | Light Duty | Confirmatory Test | Need a view that Easts the Vehicle Choiceoning realizes the personnel of the manufacturer still hear's submitted their manufacturer still hear's submitted their cooldimatory test realists to Vehicly. Vehicy will been submitted for the same Vehicle Difficulty and the same Vehicle Difficulty and the same Vehicle | Manufa Front oburer End | XML | |
| _Di-22 Failed an emission tes | Did this test vehicle previously fail an emission test as defined in the CFR? Areaser 'Y ay sic or Y in on This quasison must be arrowered for each set procedure conducted by ? the manufacturer. | DecisionInformationSubmissionDecisionInformationDetails/T extProcedureInformationDetails | TestFailednScator | 1 per test procedurehest fuel type combination par Conf Test Decision TRUE Information | A(1) Enumeration | Lank Do Values. V v Vas N v No | Light Duty | Confirmatory Test | | Manufa Front cturer End | XML | |
| Emissions > 50% of Di-23 standard? | Are any of the emission results for this test within 90% of the applicable emission standards as defined in the CFR for manufacturer conducted tasting? Answer "Y if you or N if no. This quastion must be answered for each test procedure conducted by the manufacturer. | Desistentrilmatern@utmisternDesistenthomaternDatalar7 exiProced-exitemationDatala | Whin60PercentOfStandardIndicator | 1 per test procedure/test faul type combination per Cont Test Decision traute | A(1) Enumeration | Lande Las Values : Y = You N = You | Light Duty | Confirmatory Test | | Manufa Front churer End | XML | |
| Higher than expected f | Does this test have higher than expected hall economy as defined in the CFR for manufacture conducted testing? Answer 17 if yes or N if no. This question must be percented for each for lowersers total | Desistentrilomatori Butmistori Desistentrilomatori Dasala 7 esiProsode altertematori Datala | HigherThanExpectedFuelEconomyInd | 1 per test procedure/test fuel type combination part Cort Test Decision TRUE | A(1) Enumeration | Londe Jas Valuan. Y = Vas N = No N = No Application | Light Duty | Confirmatory Test | | Manufa Front cturer End | XML | |
| Fuel aconomy > Class 05-36 Isadeir? Manufacture / Submiss Isidomation | Does this test meet the criteria for fuel economy class leader as defined in the CFR for manufacturer conducted testing? Answer "If yea or N if no. This question must be arreward to crash fail executes. | Desistentritumatori@utmissionDesisonTeesisonTeesisoT estPreschereitorteestentDesiste maartateurerUtermissoTeesta Desistentinto | FuelEconomyGreate/ThanLeaderIndc abor | 1 per test procedure/test fuel type combination per Cont Test Decision TRUE Information | A(1) Enumeration | Land Lin Valence V = Van N = No N = Not Applicatio | Light Duty | Confirmatory Test | | Manufa Front cturer End | XML | |
| D1-27 | Enter any comments to describe the | | | | | | | | | | | |
| DI-28 Manufacturer commer | Enter any comments to describe the changes being made if this is an updise to previously solarimed set of confernatory text decision information for which EPA has already made its conferencery testing decision. A system-generated field indicating | DecisionInformationSubmission/DecisionInformationDetails | SubmissionCommentText | t per Conf Test Decision FALSE Information | A(500) String 1 500 | | Light Duty | Confirmatory Test | | Manufa Front cturer End | XML | BRNs: The value of OT (Dialys) is device for any of the bar and the field (OA Fedure Enhance and the motion Theoder Level). On Caldinaria barbar barbard Level, D-11 Federal Engenders: Emission Standard Level), o D-12 (Caldinaria Engenders: Emission Standard Level), then the Manufacture Comments field (D-28) is LD-OT-OL-88018 sequred. |
| Di-29 Date submitted | b decision. A system-generated field indicating the date that this set of continuatory set at decision information is submitted to EFA. The runse of the manufacture contential EFA has questions requiring the set of continuatory againting the set of continuatory main address are of continuatory and address and phone number with an address and phone number of the manufacture in the phone manufacture in the phone. | | | 1 per Cont Test Decision Information | D(8) Date | | Light Duty | Confirmatory Test | | Verify Front End | Pre- | |
| Marufacturer Confirma Di-30 Mitr Confirmatory Test Contact Name Di-31 Mitr Confirmatory Test Cc email address | E-mail address of the manufacturer representative that should be contacted If EPA has quasifors regarding this set of confirmacy test decision information. The cortact's email address will be toked up from the cortact information previously | NA | ContactRepresentativeName | TRUE Information | A(50) String 50 | | Light Duty | Confirmatory Test | | VerilyMt anulact Back uner End VerilyMt anulact Back | Bro | |

| elemen | | | | | Basil | c Data Type | Min Max Total | Fracti onal Min Max | | | | | Originat | Collecti | vitoria | |
|--|---|---|--|----------|--|----------------|------------------------------|------------------------|---|------------------------|--|---|-----------------|---------------|--------------------------------|------------------|
| Long Name Manufacturer Confirmatory Test Decis | Description | Parent's Name | XML Tag | Required | Multiplicity Type | Description | Length Length Pattern Digits | Digits Value Valu | Allowed Values | Industry Light Duty | Process | Notes/Questions | Originat or | Point 1 | Type Applicable Business Rules | Validation Rules |
| | | | | | | | | | | | | | | | | |
| | Phone number of the manufacturer representative that should be | | | | | | | | | | | | | | | |
| | contacted if EPA has questions regarding this set of confirmatory test | | | | | | | | | | | | | | | |
| | decision information. The contact's phone number will be looked up | | | | | | | | | | | | | | | |
| N | from the contact information previously entered by the manufacturer in the Manufacturer | | | | 1 per Conf Test Decision | | | | | | | | Verity/M | Durit I | Pre- xisting | |
| DI-32 Manufacturer Confirmatory Test Contact Phone Number CISD Test Decision | Information module of Verify. | NA | ContactPhoneNumberText | TRUE | Information A(25 | i) String | 25 | | | Light Duty | Confirmatory Test | | anufact urer | End E | Data | |
| Information | Internal ERA field adu. Adiustable | | | | 1 per Carl Test | | | | | Light Duty | Confirmatory Test | | | | | |
| DI-33 Random test selection rate | Internal EPA field only. Adjustable % rate used for random test selection algorithm. Datermined by EPA. | DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails | RandomTestSelectionRate | TRUE | Decision |) Interer | | 0 22 | | Light Duty | Confirmatory Test | | EPA | Back End | Data Entry | |
| Random test selection | Internal EPA field only. Indicates if confirmatory test was a random | DecisionInformationSubmission/DecisionInformationDetails/E | | TRUE | 1 per Conf Test Decision |) integer | | | Look-Up Values: Y = Yes | -9 | | | | Back | | |
| DI-34 indicator | selection. Y/N; default == null. Internal EPA field only. Indicates if | PAGeneratedDecisionInformationDatails | RandomTestSelectionIndicator | TRUE | Information A(1) | Enumeration | | | N = No Look-Up Values: | Light Duty | Confirmatory Test | | Verity | End A | isigned | |
| EPA Testing decision DI-35 indicator | confirmatory test will be conducted at EPA. Y/N; default == null. | DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails | EPATestDecisionIndicator | TRUE | Decision Information A(1) |) Enumeration | 1 1 | | Y = Yes N = No | Light Duty | Confirmatory Test | | EPA | Back End | Data Entry | |
| | Internal EPA field only. Multiple predefined codes used to lookup | | | | 1 per Conf Test | | | | "01" = "Random" | | | | | | | |
| Reason for confirmatory EPA DI-36 testing code | 'reason for conf. EPA test' descriptions. | DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails | EPAConfirmatoryTestReasonCode | TRUE | Decision Information N(2) |) Enumeration | 2 2 | | "06" = "New Engine/Technology" "99" = "Other" | Light Duty | Confirmatory Test | | EPA | Back End | Data Entry | |
| | Internal EPA field only. | | | | | | | | | | | | | | | |
| | Possible values: '01' = random audit | | | | 1 per Conf Test | | | | "01" = "Random" | | | | | | Pre- | |
| DI-37 Reason for confirmatory EPA testing code description | 106 = new engine.technology 1997 = other reason | | CISDTestDecisionInformation | TRUE | Decision Information A(40 |) Enumeration | 2 2 | | "01" = "Random" "06" = "New Engine/Technology" '99" = "Other" | Light Duty | Confirmatory Test | | Verity | Back E End | xisting Data | |
| | | | | | | | | | 2 - CVE 75 AND LATER (IND CAN. LOAD) | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | tis - SPITIANZE TEAT 21 - FED FUEL 2 DAY EXH (BUTANE LOAD) 23 - FED FUEL 2 DAY EVAP (BUTANE) | | | | | | | |
| | | | | | | | | | 26 = FED FUEL REFUEL (OKVR) (BUTANE) 26 = CA FUEL 2 DAY EXH (BUTANE LOAD) 27 = CA FUEL 2 DAY EVAP (BUTANE LOAD) | | | | | | | |
| | | | | | | | | | 11 = FED FLEL 3 DKY 6XH (BUTANE LOAD) 32 - FED FLEL RUNNING LOSS | | | | | | | |
| | | | | | | | | | si = o PED FUELS DAY EVAPPENTANE LOAD) III = O A FUELS I DAY EVAPPENTANE LOAD) III - CA FUEL RUNNING LOSS | | | | | | | |
| | | | | | | | | | 28 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 61 = FED FUEL 2 DAY EXAP(BLAT TO LOAD) 61 = FED FUEL 20AY EVAP(BLAT TO LOAD) | | | | | | | |
| | | | | | | | | | 66 = FED REFUEL (DRVR) (HEAT TO LOAD) 66 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 69 = CA FUEL 2 DAY EXH (HEAT TO LOAD) | | | INNEED TO USE FULL LIST OF TEST PROCEDURES-NOT THE CURRENT ABBREVIATED LISTIN | | | | |
| | | | | | | | | | HE I FALL REFUEL (SHARING (MARK) FOLLOW) HE = CA FAUE, SDAY EXHIPSIAN TO LOAD) HF = CA FAUE, SDAY EXHIPSIAN TO LOAD) III = CA FAUE, SD EXCIPTION TEST III = FED FAUE, SD EXCIPTION TEST | | | 02 - CVE 75 and later (w/o can lead) 02-HIMPE | | | | |
| | | | | | | | | | er - Ger Theo vision Fundament and Test | | | 21-Federal fuel 2 day exhaust (when lead) 22-2 day Europ | | | | |
| | | | | | | | | | to L EXCTEDITION EXCENTION X EARLY TOTAL TO COT TO DEPENDENCE TO TO N= COT PRECED 2 SPD DLE (EPA ONLY) H1 - Darge Darkenig LDDS t1 - Darge Darkenig LDDS | | | 26-California fuol 2 day autoaust (wiscon load) | | | | |
| | Internal EPA field only. EPA defined codes which correspond to a set of unique test procedures used | | | | | | | | ID = Charge Depleting USDN 86 = Charge Depleting Highway 88 = Charge Depleting 2003 96 = Charge Depleting 21 Degree F FTP | | | 82 - ELECTRIC VEHICLE URBAN RANGE - | | | | |
| Test procedure codes | for confirmatory testing at EPA. | | | | 1n per Conf | | | | IN = Charge Depleting 25 Degree F FTP RT = A/C Ide Test> Manual A/C IN = A/C Ide Test> Automatic A/C | | | 82 - ELECTRIC VEHICLE HIGHMAY RANGE - | | | | |
| DI-38 Confirmatory Testing | Multiple predefined codes used to lookup test procedure descriptions. | DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails/EPATesrDetails | EPATestProcedureCode | TRUE | Test Decision Information N(2) |) Enumeration | | | eo = Lilos es = Silos | Light Duty | Confirmatory Test | 90-1/500- | EPA | Back End | Data Entry | |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | 6 - EPA UNLEADED GASOLINE | | | | | | | |
| | | | | | | | | | 6 = EPA UNLEADED GASOLINE 9 = CERT DIESEL 300 PPM SULFUR 16 = CERT DIESEL 7-15 PPM SULFUR 25 = CARE PHASE II GASOLINE | | | | | | | |
| | | | | | | | | | 31 = METHANOL (CERT M13) 32 = METHANOL (CERT M13) 33 = METHANOL (CERT M15) | | | | | | | |
| | | | | | | | | | 22 - CVBB PARKET I GASCULIE 14 - METHANOL (CERT MIG) 25 - METHANOL (CERT MIG) 14 - METHANOL (CERT MIG) 14 - METHANOL (CERT MIG) 15 - ETO (70% ETHANOL SIN EPA UNLEADED GASCULIE) 16 - EES (75% ETHANOL SIN EPA UNLEADED GASCULIE) 18 - EES (75% ETHANOL SIN EPA UNLEADED GASCULIE) 18 - EES (75% ETHANOL SIN EPA UNLEADED GASCULIE) 18 - EES (75% ETHANOL SIN EPA UNLEADED GASCULIE) | | | | | | | |
| | | | | | | | | | 20 = E10 (10% ETHANDE 50% EPA UNLEADED GASOLINE) 28 = E85 (85% ETHANOL 15% EPA UNLEADED GASOLINE) 41 = CNG | | | | | | | |
| | | | | | | | | | 42 = LPG 43 = E10 (10% ETHANDL 50% CAL PHASE I GASOLINE) 44 = E85 (85% ETHANDL 15% CAL PHASE I GASOLINE) 45 = E70 (70% ETHANDL 20% CAL PHASE I GASOLINE) | | | | | | | |
| | Internal EPA field only. The test fuel that will be used for each of the | | | | 1n per Conf | | | | 45 = E70 (70% ETHANDL 30% CAL PHASE II GASOLINE) 50 = HYDROGEN | | | | | | | |
| Test Fuel Type Code For EPA DI-38.5 Confirmatory Testing | test procedures selected by EPA for EPA confirmatory testing. | DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails/EPATestDetails | EPATestFuelTypeCode | TRUE | Test Decision Information N(2) |) Enumeration | | | 60 = NFDROGEN 60 = NFDROGEN 61 = TER2 CERT GASOLINE 62 = ELECTRUCTY 71 = E100 (100% ETHANOL) | | Confirmatory Test | | EPA | Back End | Data Entry | |
| | Internal ERA Sold only. CCD analyst | DecisionInformationSubmission/DecisionInformationDetails/E | | | 1 per Conf Test Decision A(100 | 10 | | | | | | | | Back End | Data Entry | |
| DI-39 Special testing instructions | defined. | PAGeneratedDecisionInformationDetails | SpecialTestInstructionText | FALSE | Information) | String | 1 1000 | | | Light Duty | Confirmatory Test | | EPA | End | Pre- | |
| | Internal EPA field only. Number of | | | 1 | 1 per Conf Test | | | | | 1 | | Participants of Million Prof. | | E | xisting lata or | |
| Di-40 Number of preps | LA-4 prep cycles for a test vehicle. Entered by cert analyst. | DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails | PrepCycleaNumber | TRUE | Decision Information N(2) |) Integer | 1 2 | | | Light Duty | Confirmatory Test | Default value of "1" but EPA cert rep can change to a different value. | EPA | Back End | Data Entry | |
| DL41 Cert analyst name | Internal EPA field only. CCD analyst | | | TRUE | 1 per Conf Test Decision |) String | | | | Light Duty | Confirmatory Test | | Marily | Back E | Pre- xisting Data | |
| DI-41 Cert analyst name | who made test decision. Internal EPA field only. CCD analyst | | | TRUE | 1 per Conf Test Decision | 7 Danish | . 30 | | | oger outy | Commercity rest | | carry | | Pre- | |
| DI-42 Cert analyst phone # | Internal EPA held only. CCD analyst phone number. Internal EPA field only. Date and | | | TRUE | Information A(15 | i) String | 15 15 | \vdash | | Light Duty | Confirmatory Test | | Verity | Back E End | xisting Data Pre- | |
| Cert conf. test decision date DI-43 and time | time of CCD analyst's decision. Format: yyyy/mm/dd hh:nn (24hr) | | | TRUE | Decision Information D(12 |) Date | 12 12 | | YYYYMMDD HH:NN (24 M) | Light Duty | Confirmatory Test | | Verify | Back E End | xisting Data | |
| | Internal EPA field only. CCD analyst | DecisionInformationSubmission/DecisionInformationDetails/E | | | 1 per Conf Test Decision A(100 | 10 | | | | | | | , | | Data Entry | |
| DI-44 Cert comments | defined. Internal EPA field only. | PAGeneratedDecisionInformationDetails | CertificationCommentText | FALSE | Information) | String | 1 1000 | +++ | | Light Duty | Confirmatory Test | | EPA | Back End | Entry | |
| | Internal EPA field only. Possible Values: | | | 1 | | | | | | 1 | | | | | | |
| | Y = A copy of the confirmatory test | | | 1 | | | | | Possible Values : Y = A copy of the confirmatory test report is not sent | 1 | | | | | | |
| | report is not sent electronically to the manufacturer. | | | | 1 per Conf Test | | | | electronically to the manufacturer. | | | | | | | |
| Manufacturer report DI-45 suppression indicator | N = Report is automatically sent following the EPA confirmatory test. | DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails | ManufacturerReportSuppressionIndica tor | FALSE | Decision Information A(1) | Enumeration | 1 1 | | N = Report is automatically sent following the EPA confirmatory test. | Light Duty | Confirmatory Test | | EPA | Back End | Data Entry | |
| LOD Test Scheduling Information | | | | | | | | | | Light Duty | Confirmatory Test | | | | | |
| | Internal EPA field only. Test date assigned by LOD. | DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails/LODTestScheduleD | | | 1 per Conf Test Decision | | | | | | | | | Back End | Data Entry | |
| DI-46 LOD assigned test date | Internal EPA field only 1 00 | etails DecisionInformationSubmission/DecisionInformationDetails/E | AssignedTestDate | TRUE | Information D(8) | Date | 8 8 | \vdash | YYYYMMDD | Light Duty | Confirmatory Test | | | | Entry | |
| DI-47 LOD test date assigner | representative who assigned test date. | PAGeneratedDecisionInformationDetails/LODTestScheduleD etails | TestDateAssignerName | TRUE | 1 per Conf Test Decision Information A(50 |) String | 1 50 | | | Light Duty | Confirmatory Test | | Verify | Back End A | signed | |
| | Internal EPA field only. LOD representative who assigned test date if different than logged in user. | DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails/LODTestScheduleD | | | 1 per Conf Test Decision | | | | | | | | | Back End | Data Entry | |
| | | etails DecisionInformationSubmission/DecisionInformationDetails/E | TestDateAlternateAssignerName | TRUE | Information A(50 1 per Conf Test |) String | 1 50 | +++ | | Light Duty | Confirmatory Test | | | | Entry | |
| LOD date of test date DI-49 assignment | Internal EPA field only. Date of test assignment. | PAGeneratedDecisionInformationDetails/LODTestScheduleD etails | TestDateAssignmentDate | TRUE | Decision Information D(8) | Date | 8 8 | | YYYYMMDD | Light Duty | Confirmatory Test | | Verity | Back End A | isigned | |
| | Internal EPA field only. LOD | PAGeneratedDecisionInformationDetails/LODTestScheduleD | LODCommentText | | 1 per Conf Test Decision Information A/200 |)) String | 1 200 | | | Light Duty | 0 | | LOD | Back End | Data Entry | |
| DI-50 LOD comments Retest Information | representative defined. | etails | LODCommentText | FALSE | information A(200 | u) String | 1 200 | | | | Confirmatory Test Confirmatory Test | | LUD | End | Enny | |
| | Internal EPA field only. Y/N; default == null. Entered by | | | | | | $ \top$ | | | | | | T | Γ | | |
| | Cert analyst. Y = Need to conduct a | | | | | | | | | | | | | | | |
| DI-51 Retest needed? | Decision is made by CISD, LOD, and manufacturer, or a combination of the shore | DecisionInformationSubmission/DecisionInformationDetails/E PAGeneratedDecisionInformationDetails/RetestInformationDe | Denver 1 | 1 - | 1 per Conf Test Decision | | | | Y = Need to conduct a retest. | Light Duty | Confirmatory Test | | | Back End | Data Entry | |
| DI-51 Retest needed? | the three. | taita | RetestIndicator | TRUE | -recentación A(1) | crumeration | | | N = No need to retest | Light Duty | committory lest | l | EP'A | end | uny | |

| Data | | | | | | | | | | 1 1 | | | 1 | | | | | | |
|-----------|--|--|--|---|----------|----------------|--------|-----------------|-----------|-------|------------------------------------|---|------------|--|-----------------|------------|---------------------|-------------------------------|------------------|
| elemen | | | | | | | Basic | | | | Fracti | | | | | | lecti | | |
| ų. | | | | | | Multiplicity | Data | Data Type A | fin Max | Total | onal Min Max Digits Value Value | | | | 04 | inat o | on Coll oint n 1 | voe Applicable Business Rules | |
| number | Long Name rer Confirmatory Test Decis | Description | Parent's Name | XML Tag | Required | Multiplicity | Type | Description Les | Ign Lergh | | Digits Value Value | Allowed Values | Light Duty | Process | Notes/Questions | <u>×</u> P | ont n | ype Approable Business Rules | Validation Rules |
| Manufactu | rer Confirmatory Test Decis | Internal EPA field only. Comment | DecisionInformationSubmission/DecisionInformationDetails/E | | | 1 per Cord Te | | | | | | | Light Duty | | | _ | _ | | |
| | | entered by LOD or CISD | PAGeneratedDecisionInformationDetails/RetestInformationDe | | | Decision | " | | | | | | | | | | ack D | ata | |
| DI-52 | Retest decision comment | | PAGeneraladDecisioniniormationDetails/KelastiniormationDe tails | RetestDecisionCommentText | FALSE | Information | A(500) | String | 1 500 | | | | Light Duty | Confirmatory Test | | | | ana May | |
| Di-Gz | | representative. | DecisionInformationSubmission/DecisionInformationDetails/E | The second | PALOE | 1 per Conf Te | A(330) | Juney | 1 300 | | | | Light Duty | community real | | | 10 0 | ay . | |
| | | Internal EPA field only. Cert analyst | PAGeneratedDecisionInformationDetails/RetestInformationDe | | | Decision | | | | | | | | | | | ack | | |
| DI-53 | Cert Analyst (retest) | deciding retest status. | tails | RetestCertificationAnalystName | TRUE | Information | A(50) | String | 1 50 | | | | Light Duty | Confirmatory Test | | | | gned | |
| | | | DecisionInformationSubmission/DecisionInformationDetails/E | | TRUE | 1 per Conf Te | | | | | | | -9 | | - | , - | | y | |
| | | Internal EPA field only. Date of Cert | PAGeneratedDecisionInformationDetails/RetestInformationDe | | | Decision | | | | | | | | | | в | ack | | |
| DI-54 | Cert retest decision date | | teila | RetestCertificationDecisionDate | TRUE | Information | D(8) | Date | | | | YYYYMMDD | Light Duty | Confirmatory Test | | | | oned | |
| | | | DecisionInformationSubmission/DecisionInformationDetails/E | | TRUE | 1 per Conf Te | -(0) | | | | | | -9 | | - | , - | | y | |
| | | Internal EPA field only. Date of | PAGeneratedDecisionInformationDetails/RetestInformationDe | | 1 | Decision | | | 1 | | | | 1 | 1 | | в | ack D | ata | |
| DI-55 | LOD retest date | retest assigned by LOD. | tails | RetestDate | TRUE | Information | D(8) | Date | 8 8 | 1 | | YYYYMMDD | Light Duty | Confirmatory Test | | | | 10V | |
| | | Internal EPA field only. LOD | DecisionInformationSubmission/DecisionInformationDetails/E | | | 1 per Conf Te | () | | - | | | | | | 1 | | | · . | 1 |
| | | representative who assigned retest | PAGeneratedDecisionInformationDetails/RetestInformationDe | | 1 | Decision | | | 1 | | | | 1 | 1 | | в | ack | 1 | |
| DI-56 | LOD retest date assigner | | tails | RetestDateAssignerName | TRUE | Information | A(50) | String | 1 50 | 1 | | | Light Duty | Confirmatory Test | v | | | gned | |
| | | | DecisionInformationSubmission/DecisionInformationDetails/E | | 1 | 1 per Corll Te | 4 | | | 1 1 | | | 1 | | | - | | | |
| | | Internal EPA field only. Date of | PAGeneratedDecisionInformationDetails/RetestInformationDe | | | Decision | | | | | | | | | | в | ack | | |
| DI-57 | LOD retest date assigned | retest date assignment. | tails | RetestDateAssignmentDate | TRUE | Information | D(8) | Date | 8 8 | | | YYYYMMDD | Light Duty | Confirmatory Test | v | rify E | ind Ass | gned | |
| | | Internal EPA field only. Multiple | | | | | | | | | | | | | | | | | |
| | | predefined codes to lookup retest | | | | | | | | | | 1=void; | | | | | | | |
| | | descriptions. 1=void; 2=emission | DecisionInformationSubmission/DecisionInformationDetails/E | | | 1 per Conf Te | | | | | | 2+emission failure; | | | | | | | |
| | | failure; 3=high coast down; 4=FE | PAGeneratedDecisionInformationDetails/RetestInformationDe | | | Decision | | | | | | 3=high coast down; | | | | | | ata | |
| DI-58 | Reason for retest code | different by > 3% | tails | RetestReasonIdentifier | TRUE | Information | A(1) | Enumeration | 1 1 | | | 4=FE different by > 3% | Light Duty | Confirmatory Test | | PA E | ind E | stry | |
| | | Internal EPA field only. EPA sets to | DecisionInformationSubmission/DecisionInformationDetails/E | | | 1 per Conf Te | at 1 | | | | | | | | | | | | |
| | | Y when vehicle is finished with | PAGeneratedDecisionInformationDetails/RetestInformationDe | | | Decision | | | | | | Y = Testing completed. | | | | | | ata | |
| | Testing complete indicator LOD QC Check Information | | tails | TestCompletionIndicator | TRUE | Information | A(1) | Enumeration | 1 1 | | | N = Testing not completed | Light Duty | Confirmatory Test Confirmatory Test | | PA E | ind E | utry | |
| - | LOD GC Check information | | | | | | | | | | | | Light Duty | Commissory rest | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | Internal EPA field only. 'Y' or 'N' | | | | | | | | | | | | | | | | | |
| | | (default). Y = LOD quality control | | | | | | | | | | | | | | | | | |
| | | (QC) check of test has been performed. N = No check has been | | | | | | | | | | | | | | | | | |
| | | performed. N = No check has been performed. LOD QC indicator is | | | | | | | | | | | | | | | | | |
| | | used for a "basic" check at the time | | | | | | | | | | | | | | | | | |
| | | the LOD test is finished, and a | DecisionInformationSubmission/DecisionInformationDetails/E | | | 1 per Corl Te | | | | | | Y = LOD quality control (QC) check of test has been | | | | | | | |
| | | second time during a final LOD QC | PAGeneratedDecisionInformationDetails/LODQualityControlC | | 1 | Decision | | | 1 | | | performed. | 1 | 1 | | в | ack D | ata | |
| DI-60 | QC check indicator | check of the confirmatory test results. | heckDetails | BasicCheckIndicator | FALSE | Information | A(1) | Enumeration | 1 1 | 1 | | N = No check has been performed. | Light Duty | Confirmatory Test | | | | 10V | |
| | | | DecisionInformationSubmission/DecisionInformationDetails/E | | | 1 per Conf Te | 4 107 | | - | | | | | | 1 | | | · . | 1 |
| | | Internal EPA field only. LOD | PAGeneratedDecisionInformationDetails/LODQualityControlC | | 1 | Decision | | | | 1 | | | 1 | 1 | | в | ack | 1 | |
| DI-61 | QC check assigner | representative who did the QC check. | heckDetails | CheckAssignerName | FALSE | Information | A(50) | String | 1 50 | | | | Light Duty | Confirmatory Test | v | rity E | ind Ass | gned | |
| | | | DecisionInformationSubmission/DecisionInformationDetails/E | | | 1 per Corlf Te | 4 | | | | | | | | | | | | |
| | | Internal EPA field only. LOD | PAGeneratedDecisionInformationDetails/LODQualityControlC | | 1 | Decision | | | | 1 | | | 1 | 1 | | | ack | 1 | |
| DI-62 | QC check comments | representative defined. | heckDetails | CheckCommentText | FALSE | Information | A(200) | String | 1 200 | | | | Light Duty | Confirmatory Test | V | rify E | ind Ass | gned | |
| | | | DecisionInformationSubmission/DecisionInformationDetails/E | | | 1 per Conf Te | 4 | | | | | | 1 | | | | | | |
| | | Internal EPA field only. Date the | PAGeneratedDecisionInformationDetails/LODQualityControlC | | 1 | Decision | | | | 1 | | | 1 | 1 | | | ack | 1 | |
| DI-63 | QC check entry date | final LOD QC check was completed. | heckDetails | CheckEntryDate | TRUE | Information | D(8) | Date | 8 8 | | | YYYYMMDD | Light Duty | Confirmatory Test | v | rify E | ind Ass | gned | |
| | | | | | | | | | | | | | | | | _ | | | |

| Pink = TBD | Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | | |
|---|---|--|---|--|---|--------------|---|--|--------------|-----------------------|-------------------|--|--|---|--|--|---|--|--|---|---|--|
| EPA Data element | | | | | Descient | | Basic Data | Data Type | <u>Min N</u> | lax Patt | Total C | racti onal Mir | n <u>Max</u> | c. e Allowed Values | | | | | Collectio | Collection | Applicable Business | |
| number Shift So | Long Name hedule Information | Description | Parent's Name | XML Tag | Required | Multiplicity | Type L | Description Le | ngth Lei | ngth ern | Digits D | igits Valu | ue Value | Look-up Values | Indust | ry Process | Notes/Questions | Originator | n Point | Туре | Rules | Validation Rules |
| | | Select the desired process | | | | | | | | | | | | N = New dataset | | | | | | | | |
| SS-0.5 | Process Code | code for the current submission. | ShiftScheduleSubmission/Shift ScheduleInformationDetails | InformationProcessCode | TRUE | | A(1) Er | numeration | 1 | 1 | | | | C = Correction of Verify dataset | existing Light-D | Confirmator uty Test | У | Manufactur er | Front End | XML | LD-CFT-SS-BR009 | If Process Code = "R" or "D" or "C", a record must exist in Verify for the primary key of this module. |
| | | | | | | | | | | | | | | | | | Primary key for shift | | | | | SS-BR1: If Process Code (SS-0.5) is equal to 'R' (Report) or 'C' (Correction), then a record must already exist in the system with the same Shift Schedule ID (SS-1), Shift Schedule Database Code (SS- 2), and Manufacturer Code (SS-4). |
| | | Identifier for the shift | | | | | | | | [A- | | | | | | | schedules is: shift schedule ID (SS-1) - shift schedule | • | | | LD.CET.SS.BR001a | SS-BR6: If Process Code (SS-0.5) is equal to 'N' (New), then a Shift Schedule record cannot already exist in the system with the same |
| SS-1 | Shift schedule ID | schedule to be performed for a test | ShiftScheduleSubmission/Shift ScheduleInformationDetails/ | ShiftScheduleIdentifier | TRUE | | A(4) Str | ring | 1 | 9]{1, 4 4} | | | | | Light D | Confirmator Ity Test | y database code (SS- 2) + mfr code (SS-4) | Manufactur er | Front End | XML | LD-CFT-SS-BR001b LD-CFT-SS-BR006 | Shift Schedule ID (SS-1), Shift Schedule Database Code (SS-2), an Manufacturer Code (SS-4). |
| | | | | | | | | | | | | | | | Ĭ | | Primary key for shift schedules is: shift schedule ID (SS-1) - | | | | | SS-BR1: If Process Code (SS-0.5) is equal to 'R' (Report) or 'C' (Correction), then a record must already exist in the system with the same Shift Schedule ID (SS-1), Shift Schedule Database Code (SS- 2), and Manufacturer Code (SS-4). |
| | | Internal EPA code for the | | | | | | | | | | | | | | | shift schedule database code (SS- | | | | | SS-BR6: If Process Code (SS-0.5) is equal to 'N' (New), then a Shift |
| | Shift schedule database | source of the shift schedule Verify will automatically load | a. d | | | | | | | | | | | 'A' = Manufacturer | | Confirmator | 2) + mfr code (SS-4) | | Back | | LD-CFT-SS-BR001a LD-CFT-SS-BR001b | Schedule record cannot already exist in the system with the same |
| SS-2 | code | this element with "A". | | n/a | TRUE | | A(1) Er | numeration | | | | | | 'A' = Manufacture. | ers (for cert/fe) Light D | uty Test | | Verify | End | Assigned | LD-CFT-SS-BR006 | Manufacturer Code (SS-4). SS-BR1: If Process Code (SS-0.5) is equal to 'R' (Report) or 'C |
| | | | | | | | | | | | | | | | | | | | | | | (Correction), then a record must already exist in the system with the same Shift Schedule ID (SS-1), Shift Schedule Database Code (SS- 2), and Manufacturer Code (SS-4). |
| | | | | | | | | | | | | | | | | | | | | | | SS-BR2: Manufacturer Code (SS-4) must exist in the system. |
| | | | | | | | | | | | | | | | | | | | | | | SS-BR4: If the Process Code (SS-0.5) is equal to 'R' (Report) then the Manufacturer Code of the Submission Author Details must mate the Manufacturer Code (SS-4) of the dataset for which the report was requested. |
| | | | | | | | | | | | | | | | | | Primary key for shift | | | | D-CET-SS-BR001a | SS-BR5: If the Process Code (SS-0.5) is equal to 'N' (New) or 'C' (Correction) then the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (SS-4) of the submitted dataset |
| | | | | | | | | | | | | | | | | | schedules is: shift schedule ID (SS-1) - | | | | LD-CFT-SS-BR001b LD-CFT-SS-BR002 | |
| SS-4 | Manufacturer code | Manufacturer code will be assigned during login. | ShiftScheduleSubmission/Shift ScheduleInformationDetails/ | EPAManufacturerCode | TRUE | | A(3) St | ring | 3 | [A- Z0- 3 9]{3} | | | | | Light D | Confirmator | shift schedule y database code (SS- 2) + mfr code (SS-4) | | | XML | LD-CFT-SS-BR004 LD-CFT-SS-BR005 LD-CFT-SS-BR006 | Schedule record cannot already exist in the system with the same Shift Schedule ID (SS-1), Shift Schedule Database Code (SS-2), an Manufacturer Code (SS-4). |
| | | | | El 7 mandiada el 1000de | | | | | | | | | | | | | | | | | | |
| | Shift schedule description | The text description of the shift schedule. | ShiftScheduleSubmission/Shift | | FALSE | | A(30) St | ring | 1 3 | 10 | | | | | Light D | Confirmator | у | Manufactur er | Front End | XML | | |
| SS-5 | description | The text description of the shift schedule. | ShiftScheduleSubmission/Shift ScheduleInformationDetails/ | ShiftScheduleDecriptionT ext n/a | | | | ring | 1 3 | 10 | | 0 | 5 | 05 | Light D Light D | Confirmator | y y | | Front End Back End | XML Data Entry | | |
| SS-5 SS-7 | description LNS error severity code Non-cruise declutch | shift schedule. NOTE: (For EPA use only) Speed for a declutch | ShiftScheduleSubmission/Shift ScheduleInformationDetails/ ShiftScheduleSubmission/Shift ScheduleInformationDetails/No | ShiftScheduleDecriptionT ext n/a | FALSE | | N(1) Int | teger | 1 3 | 10 | | 0 | | 05 | Light D | Confirmator uty Test Confirmator | у у у | er EPA Manufactur | End Back End Front | Data Entry | | |
| SS-5 SS-7 | description | shift schedule. NOTE: (For EPA use only) Speed for a declutch operation | ShiftScheduleSubmission/Shift ScheduleInformationDetails/ ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails | ShiftScheduleDecriptionT ext n/a n DeclutchSpeedValue | FALSE | | | teger | 1 3 | 10 | 4 | 0 | | 05 | Light D | Confirmator | у у у | er EPA Manufactur er | End Back End Front End | Data | | |
| SS-5 SS-7 SS-8 | description LNS error severity code Non-cruise declutch | shift schedule. NOTE: (For EPA use only) Speed for a declutch operation 1-2 acceleration shift point | ShiftScheduleSubmission/Shift ScheduleInformationDetails/ ScheduleInformationDetails/ ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleInformationDetails/No CruiseShiftDetails | ShiftScheduleDecriptionT ext n/a p DeclutchSpeedValue n Gear1To2SpeedValue | FALSE | | N(1) Int | teger | 1 3 | 10 | 4 | 0 1 0 1 0 | | 05 | Light D | Confirmator uty Test Confirmator uty Test Confirmator | у у у | er EPA Manufactur | End Back End Front | Data Entry | | |
| <u>SS-5</u> <u>SS-7</u> <u>SS-8</u> <u>SS-9</u> | description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS | shift schedule. NOTE: (For EPA use only) Speed for a declutch operation 1-2 acceleration shift point speed 2-3 acceleration shift point | ShiftScheduleSubmission/Shift ScheduleInformationDetails/ ScheduleInformationDetails/No CruiesShiftDetails ScheduleInformationDetails/No CruiesShiftDetails ScheduleInformationDetails/No CruiesShiftDetails ScheduleInformationDetails/No ScheduleInformationPetails/No ScheduleInformationPetails/No | ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue dGear1To2SpeedValue | FALSE FALSE TRUE TRUE | | N(1) Int N(4,1) De N(4,1) De | teger ecimal | 1 3 | 10 | 4 | 0 1 0 1 0 | 200 | 000.0 - 200.0 | Light D | Confirmator Ity Test Confirmator Ity Test Confirmator Ity Test Confirmator | y y y y y | er EPA Manufactur er | End Back End Front End | Data Entry | | |
| <u>SS-5</u> <u>SS-7</u> <u>SS-8</u> <u>SS-9</u> <u>SS-10</u> | description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS | shift schedule. NOTE: (For EPA use only) Speed for a declutch operation 1-2 acceleration shift point speed 3-4 acceleration shift point | ShiftScheduleSubmission/Shift SchedulenformationDetails/ BhiftScheduleSubmission/Shift SchedulenformationDetails/ CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift Scheduleficsbanksubmission/Shift Scheduleficsbanksubmission/Shift Scheduleficsbanksubmission/Shift Scheduleficsbanksubmission/Shift Scheduleficsbanksubmission/Shift | ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue GeartTo2SpeedValue | FALSE FALSE TRUE TRUE FALSE | | N(1) Int N(4,1) De N(4,1) De N(4,1) De | ecimal | 1 3 | 10 10 | 4 | 1 0 | 200 200 200 | 000.0 - 200.0 | Light D Light D Light D Light D | Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator | y y y y y | er EPA Manufactur er Manufactur er Manufactur er | End Back End Front End Front End Front End | XML XML XML | | |
| <u>SS-5</u> <u>SS-7</u> <u>SS-8</u> <u>SS-9</u> <u>SS-10</u> | description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS | shift schedule. NOTE: (For EPA use only) Speed for a declutch operation 1:2 acceleration shift point seed 2:3 acceleration shift point speed 3:4 acceleration shift point speed | ShiftScheduleSubmission/Shift ScheduleInformationDetails/ BhiftScheduleSubmission/Shift ScheduleInformationDetails/ CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift | ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue Gear1To2SpeedValue Gear2To3SpeedValue Gear3To4SpeedValue | FALSE FALSE TRUE TRUE | | N(1) Int N(4,1) De N(4,1) De | ecimal | 1 3 | | 4 | 1 0 | 200 | 000.0 - 200.0 | Light D Light D Light D Light D | Confirmator Ity Test Confirmator Ity Test Confirmator Ity Test Confirmator | y y y y y y | er EPA Manufactur er Manufactur er Manufactur er Manufactur er | End Back End Front End Front End Front End | Data Entry XML XML | | |
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| <u>SS-5</u> <u>SS-7</u> <u>SS-8</u> <u>SS-9</u> <u>SS-10</u> <u>SS-11</u> <u>SS-12</u> | description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 3-4 gear SS | shift schedule. NOTE: (For EPA use only). Speed for a declutch operation 1-2 acceleration shift point speed 2-3 acceleration shift point speed 4-5 acceleration shift point speed 5-6 acceleration shift point speed | ShiftScheduleSubmission/Shift ScheduleInformationDetails/ BhiftScheduleSubmission/Shift ScheduleInformationDetails/NO CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/NO CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/NO CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/NO CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/NO CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationPatails/NO CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/NO CruiseShiftDetails | ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue GearTo2SpeedValue Gear3To4SpeedValue Gear3To4SpeedValue | FALSE FALSE TRUE TRUE FALSE FALSE | | N(1) Int N(4,1) De N(4,1) De N(4,1) De N(4,1) De | ecimal ecimal ecimal ecimal ecimal ecimal ecimal | 1 3 | | 4 4 4 4 4 4 | 1 0 | 200 200 200 200 | 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 | Light D Light D Light D Light D Light D | Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test Confirmator ty Test | y y y y y y y | er EPA Manufactur er Manufactur er Manufactur er Manufactur er | End Back End Front End Front End Front End Front End | Data Entry XML XML XML XML | | |
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| SS-5 SS-7 SS-8 SS-9 SS-10 SS-11 SS-12 SS-13 SS-14 SS-15 SS-16 SS-17 SS-18 SS-19 | description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 2-4 gear SS Non-cruise 2-5 gear SS Non-cruise 5-6 gear SS Non-cruise 5-7 gear SS Cruise declutch speed Cruise 1-2 gear SS Cruise 2-3 gear SS Cruise 2-3 gear SS | shift schedule. NOTE: (For EPA use only). Speed for a dedutch operation 1-2 acceleration shift point seeed 2-3 acceleration shift point speed 3-4 acceleration shift point speed 4-5 acceleration shift point speed 4-5 acceleration shift point speed 7-8 acceleration shift point speed 7-8 acceleration shift point speed 2-3 acceleration shift point speed 2-3 acceleration shift point speed 2-3 cruise shift point speed 3-4 cruise shift point speed | ShiftScheduleSubmission/Shift ScheduleInformationDetails/ ScheduleInformationDetails/ ChiftScheduleSubmission/Shift ScheduleInformationDetails/ ScheduleInformationDetails | ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue Gear1To2SpeedValue Gear2To3SpeedValue Gear3To4SpeedValue Gear5To6SpeedValue Gear6To7SpeedValue Gear6To7SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue | FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE | | N(1) Int N(1) Int N(4.1) De | scimal | | | | 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 | 200 200 200 200 200 200 200 200 200 200 | 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 | Light D Light D | Confirmator yy Test Confirmator yy Test Confirmator y Test Confirmator Confirma | y y y y y y y y y y y y y y y y | er EPA Manufactur er er Manufactur er er Manufactur er er er er er er er er er e | End Back End Front Front Fro | Data Entry XML XML XML XML XML XML XML XML XML XML | | |
| SS-5 SS-7 SS-8 SS-9 SS-10 SS-11 SS-12 SS-13 SS-14 SS-15 SS-16 SS-17 SS-18 SS-19 | description LNS error sevenity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 3-4 gear SS Non-cruise 3-6 gear SS Non-cruise 5-6 gear SS Cruise 1-2 gear SS Cruise 1-2 gear SS Cruise 3-4 gear SS Cruise 3-4 gear SS Cruise 3-4 gear SS Cruise 3-4 gear SS Cruise 3-5 gear SS | shift schedule. NOTE: (For EPA use only). Spead for a dedutch operation 1-2 acceleration shift point speed 2-3 acceleration shift point speed 3-4 acceleration shift point speed 5-6 acceleration shift point speed 6-7 acceleration shift point speed 6-7 acceleration shift point speed 6-7 acceleration shift point speed 6-7 acceleration shift point speed 1-2 cruise shift point speed 3-4 cruise shift point speed 4-5 cruise shift point speed 4-5 cruise shift point speed 4-5 cruise shift point speed | ShiftScheduleSubmission/Shift Scheduleinformation/Details/ Scheduleinforma | ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue Gear1To2SpeedValue Gear2To3SpeedValue Gear3To4SpeedValue Gear5To6SpeedValue Gear6To7SpeedValue Gear6To7SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue Gear2To3SpeedValue | FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE | | N(1) Int N(4) Int N(4,1) De N(4,1) De | scimal | | | | 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 | 200 200 200 200 200 200 200 200 200 200 | 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 000.0 -200.0 | Light D Light D | Confirmator yy Test Confirmator yy Test Confirmator y Test | y y y y y y y y y y y y y y y y y y | er EPA Mandactur er Manufactur er er Manufactur er Manufactur er er Manufactur er Manufactur er Manu | End Back End Front Front End Front Front End Front Fro | Data Entry XML XML XML XML XML XML XML XML XML XML | | |
| SS-5 SS-7 SS-8 SS-9 SS-10 SS-11 SS-12 SS-14 SS-15 SS-16 SS-17 SS-16 SS-17 SS-18 SS-19 SS-20 SS-21 | description LNS error severity code Non-cruise declutch speed Non-cruise 1-2 gear SS Non-cruise 2-3 gear SS Non-cruise 2-3 gear SS Non-cruise 2-5 gear SS Non-cruise 2-5 gear SS Non-cruise 2-6 gear SS Cruise declutch speed Cruise 1-2 gear SS Cruise 2-3 gear SS Cruise 2-3 gear SS Cruise 3-4 gear SS Cruise 3-4 gear SS | shift schedule. NOTE: (For EPA use only). Speed for a declutch operation 1-2 acceleration shift point seeed 2-3 acceleration shift point speed 3-4 acceleration shift point speed 5-6 acceleration shift point speed 6-7 acceleration shift point speed 6-7 acceleration shift point speed 7-8 acceleration shift point speed 1-2 cruise shift point speed 3-4 cruise shift point speed 5-6 cruise shift point speed 5-6 cruise shift point speed 5-6 cruise shift point speed 5-6 cruise shift point speed | ShiftScheduleSubmission/Shift ScheduleInformation/Details/ ScheduleInformation/Details/ ScheduleInformation/Details/ CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformation/Details/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No CruiseShiftDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/No Sch | ShiftScheduleDecriptionT ext n/a DeclutchSpeedValue GearTo2SpeedValue GearTo3SpeedValue GearTo6SpeedValue GearTo6SpeedValue GearTo6SpeedValue GearTo6SpeedValue GearTo2SpeedValue GearTo2SpeedValue GearTo2SpeedValue GearTo2SpeedValue GearTo5SpeedValue GearTo5SpeedValue GearTo5SpeedValue GearTo7SpeedValue | FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE | | N(1) Ind N(1) Ind N(4,1) De N(4,1) De | scimal sc | | | | 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 | 200 200 200 200 200 200 200 200 200 200 | 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 000.0 - 200.0 | Light D Light D | Confirmator yy Test Confirmator yy Test Confirmator y Test | y y y y y y y y y y y y y y y y y y y | er EPA Manufactur er Manufactur manuf | End Back End Front Front Front End Front | Data Entry XML XML XML XML XML XML XML XML XML XML | | |

| EPA Data element number Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Data Ty Type Descript | <u>pe Min</u> ion Lengt | Max th Length | Patt Tota ern Digit | Fracti al onal s Digits | <u>Min</u> Value | <u>Max</u> Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Collectio n Point | Collection Type | Applicable Business Rules | Validation Rules |
|---|---|--|------------------------------|----------|-----------------------|--|----------------------------|------------------|------------------------|-------------------------------|---------------------|---------------------|---|------------|----------------------|-------------------------------|----------------------|----------------------|--------------------|------------------------------|---|
| Shift Schedule Information | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 002 - FTP (Cert); 003' - HWFE (Cert); 004' - USO6 (Cert); 005' - SC03 (Cert); 021' - LA4 (prep only); 022' - LA4 023' - 505; 031' - HWFE (no warmup); 101' - SCC41; 102' - SCC41; 102' - SCC41; 103' - BHI (Atua); 104' - BH (Manua); | | | | | | | | |
| Drive schedule name | Code identifying a particlar drive cycle, e.g. the FTP | ShiftScheduleSubmission/Shift | | | | | | | | | | | '111' - 3BagHWFE; '112' - 3Bag505; | | Confirmatory | | Manufactur | Front | | | |
| SS-56 code | drive cycle. | ScheduleInformationDetails | DriveScheduleNameCode | TRUE | | A(3) Enumera | tion | | | | | | '121' - LA4 (perturbed 1.5) | Light Duty | | Required for a new | er | End | XML | | |
| SS-57 Model year | NOTE: Initial entry only. | ShiftScheduleSubmission/Shift ScheduleInformationDetails | ModelYear | FALSE | | N(4) Date | | | 4 | | 1970 | 2100 | 1970 2100 | Light Duty | Confirmatory Test | shift schedule submission. | Manufactur er | Front End | XML | | |
| SS-58 Comments | Enter additional information about the shift schedule. | ShiftScheduleSubmission/Shift ScheduleInformationDetails | ShiftScheduleCommentT ext | FALSE | | A(200) String | 1 | 200 | | | | | | Light Duty | Confirmatory Test | | Manufactur er | Front End | XML | | |
| | System-assigned when initially creating a shift schedule. To modify a shift point, a shift time must exist for the shift schedule. To insert a new shift point, a new shift point is submitted but not the shift point number the system will | | EAL | TRUSE | | A(200) Junig | | 200 | | | | | | Light Duy | 1651 | | Verify(Man | LING | AWL | | SS-BR7: The Shift Time (SS-60) entered for a Shift Point (SS-69) |
| | point numbers to include the | t ShiftScheduleSubmission/Shift ScheduleInformationDetails/Shi | - | FALSE | | | | | | | 1 | | | | Confirmatory | | facturer when not | Front | ХМІ | LD-CFT-SS-BR007 | must be greater than the Shift Time (SS-60) of the previous Shift Point (SS-59). SS-BR8: The Shift Point (SS-59) must be specified for all the entries or none of them. |
| SS-59 Shift point number | new shift point. Time in seconds from | tPointDetails ShiftScheduleSubmission/Shift ScheduleInformationDetails/Shi | ShiftPointNumber | | 1n 1shiftPoint | N(3) Integer | | | 3 | | | 999 | | Light Duty | Confirmatory | | new) Manufactur | Front | | | SS-BR7: The Shift Time (SS-60) entered for a Shift Point (SS-59) must be greater than the Shift Time (SS-60) of the previous Shift |
| SS-60 Shift time | beginning of test drive cycle | ShiftScheduleSubmission/Shift | ShiftTimeMeasure | TRUE | Number 1shiftPoint | N(5,1) Decimal | - | | 5 | 1 | 0 | 2500 | 0000.0 - 2500.0 | Light Duty | | | er | End | XML | LD-CFT-SS-BR007 | Point (SS-59). |
| SS-61 Shift speed | in miles per hour (MPH) only | ScheduleInformationDetails/Shi ytPointDetails | ShiftSpeedMeasure | FALSE | | N(4,1) Decimal | | | 4 | 1 | 0 | | 000.0 - 200.0 | Light Duty | Confirmatory Test | | Manufactur er | Front End | XML | | |
| SS-62 Shift action code | Code describing a shift ever such as a shift from 1-2 | ShifScheduleSubmission/Shift Schedulenformation2etaileShi domDetaile 200 | ShiltActionCode | TRUE | 1shiftPoint Number | A(2) Enumera | ion | | | | | | 20 deckubr, Bo -deckubr, Bo 21 deckubr, Bo -deckubr, Bo 22 deckubr, Bo -deckubr, Bo 23 deckubr, Bo -deckubr, Bo 24 deckubr, Bo -deckubr, Bo 24 deckubr, Bo -deckubr, Bo 24 deckubr, Bo -deckubr, Bo </td <td>Light Duty</td> <td>Confirmatory</td> <td></td> <td>Manufactur or</td> <td>• Front End</td> <td>XML</td> <td></td> <td></td> | Light Duty | Confirmatory | | Manufactur or | • Front End | XML | | |
| Alternative Shift Action SS-63 Description | Enter only if 'shift action code' = 99 | ShiftScheduleSubmission/Shift ScheduleInformationDetails/Shi tPointDetails | ShiftPointScreenText | FALSE | 1shiftPoint Number | A(9) String | | | | | | | | Light Duty | Confirmatory | | Manufactur er | Front End | ХМІ | I D.CET.SS.BR003 | SS-BR3: If Shift Action Code (SS-62) is equal to '99' (Alternative Sh Action), then Shift Point Screen (SS-63) is required. |
| SS-64 Shift point H/V indicate | | a on a other others | n/a | FALSE | - salliber | A(9) Sung A(1) Enumera | Ű | | | | | | 'H' or 'V' | Light Duty | Confirmatory | | EPA | Back End | Data Entry | 20-011-00-08000 | noion, non onit romt outen (00-00) is required. |
| SS-65 Shift point L/R indicate | | | n/a | FALSE | | A(1) Enumera | | | | | | | L' or 'R' | Light Duty | Confirmatory | | EPA | Back End | Data Entry | | |
| SS-66 Exception point code | asterisk, 'N' or blank include this shift point speec in the VDA shift pattern calculations; 'Y or X' do not include this shift point speed in the VDA shift pattern calculations | | ExceptionPointCode | FALSE | 1shiftPoint Number | A(1) Enumera | tion | | | | | | " (asterisk), "N', blank, 'Y', 'X' | Light Duty | Confirmatory | | EPA | Back End Back | XML Data | | |
| SS-67 Cruise point | For EPA use only | - | n/a | FALSE | | A(1) String | 1 | 1 | | 1 | 1 | | | Light Duty | Test | | EPA | End | Entry | | |

| EPAData element number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data D. Type De | ata Type escription | <u>Min. Max</u> Length Lengt | h Pattern | <u>Total</u> Fran Digits al D | <u>tion</u> gits Min Value | Max Value | Allowed Values | | Industry | Process | Notes/Questions | Ωrigir or | at <u>Collecti</u> on Point | Collecti on Type | Applicable Business Rules | Validation Rules |
|------------------------------|--|---|---|-------------------------------------|----------|---|-----------------------------|------------------------|---------------------------------|---|----------------------------------|-------------------------------|-----------|---|----------------|------------|---------------------|-------------------------|-----------------------------|--------------------------------|-------------------------|---|--|
| | | Select the desired | SupplementalInformati | | | 1 per CT | | | | | | | | Look-up Values | | | | | | | | | |
| SI-0.5 | Process Code | process code for the current submission. | mentalInformationDeta Is | InformationProc essCode | TRUE | Supplemental Information | A(1) Ens | umeration | 1 1 | | | _ | | N = New dataset C = Correction of existing | Verify dataset | Light-Duty | Confirmatory Test | | Manu ture | ac Front r End | XML | | already exist in the system with the same Vehicle D (Si-2), Vehicle Configuration (Si-3), |
| | | | | | | | | | | | | | | | | | | | | | | | Manufacturer Code (SI-1) and Model Year (SI-3.5). SI-BR5: Either a shift schedule with the Manufacturer Code (SI-1), Shift Schedule ID (SI-46) and Shift Schedule Database Code (SI-47) must texts in the system, or a shift schedule with the LOD Manufacturer Code, SiHs Schedule (SI-44) and Shift Schedule Database Code (SI-47) must |
| | | | | | | | | | | | | | | | | | | | | | | | exist in the system. SNBR10: If the Process Code (SI-0.5) is equal to 'R' (Report <mark>), then</mark> the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (SI-1) of the dataset for which the record was reloased. |
| | | The manufacturer code will be determined from the data submitter's CDX user login profile. The | | | | | | | | | | | | | | | | | | | | | SHBR11: If the Process Code (SH-0.5) is equal to TV (New) or C' (Correction), then the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (SI-1) of the submitted dataset. |
| | | manufacturer code is an alpha-numeric code which identifies a unique vehicle | | | | | | | | | | | | | | | | | | | | LD-CFT-SI-BR001a LD-CFT-SI-BR001b LD-CFT-SI-BR004a LD-CFT-SI-BR004b | SHBR 12: If Process Code (SH0.5) is equal to 1N (New) then a Decision Information record must already exist in the system with the same Vehicle ID (SH2), Vehicle Configuration (SH3), Manufacturer Code (SH1), and Model Year (SH3.5). |
| SI-1 | Manufacturer code | manufacturer. This code is assigned by EPA during the manufacturer registration process. | SupplementalInformati onSubmission/Supple mentalInformationDeta Is | EPAManufactur erCode | TRUE | 1 per CT Supplemental Information | A(3) | String | 3 3 | [A-20- 9](3) | | | | | | Light Duty | Confirmatory Test | | CD: From User Info | | XML | LD-CFT-SI-BR005 LD-CFT-SI-BR010 LD-CFT-SI-BR011 LD-CFT-SI-BR012 LD-CFT-SI-BR013 | SI-BR13: If Process Code (SI-0.5) is equal to Y (Vew), then a Supplemental Information record cannot already with the system with the same Vehicle ID (SI-2), Vehicle Configuration (SI-3), Manufacturer Code (SI-1), and Model Year (SI-3.5). |
| | | Enter the applicable test vehicle identification number for this set of supplemental confirmatory test information. The vehicle ID is a unique, manufacturer-defined, alpha-num eric identification number that is assigned to each manufacturer test | | | | | | | | | | | | | | | | | | | | | |
| | | vehicle. The combination of test vehicle ID and vehicle configuration number entered here must be established in Verify's Test Vehicle | | | | | | | | | | | | | | | | | | | | LD-CFT-SI-BR001a LD-CFT-SI-BR001b | SIART: Fincess Code (SI-6.3) is equal to TR (Report) or C (Controlon), then a record must instry data the spectrum with the same Whitel Co (SI-2), Whitele Configuration (SI-3), Manufacture Code (SI-1) and Model Year (SI-3.5). SIART: 21: Process Code (SI-6) is equilibre V (New) then a Decision Information record must instry ret in the system with the same Whitele (D (SI-2), Whitele Configuration (SI-3), Manufacture Code (SI-1), and Model Year (SI-3.5). |
| SI-2 | Vehicle ID | Information database prior to submitting supplemental confirmatory test information. | SupplementalInformati onSubmission/Supple mentalInformationDeta Is | VehicleIdentific ationText | TRUE | 1 per CT Supplemental Information | A(20) | String | 1 20 | | | | | | | Light Duty | Confirmatory Test | | Manu ture | iac Front r End | XML | LD-CFT-SI-BR001b LD-CFT-SI-BR004a LD-CFT-SI-BR004b LD-CFT-SI-BR012 LD-CFT-SI-BR013 | SIBR13: If Process Code (SI-0.5) is equal to N (New), then a Supplemental Information record cannot already exist in the system with the same Vehicle ID (SI-2), Vehicle Configuration (SI-3), Manufacturer Code (SI-1), and Model Year (SI-3.5). |
| | | Enter the applicable test vehicle configuration number for this set of supplemental confirmatory test information. The vehicle configuration number is used to denote multiple configurations of a | | | | | | | | | | | | | | | | | | | | | |
| | | configurations of a single test vehicle ID. The combination of test vehicle ID and vehicle configuration number entered here must be established in | | | | | | | | | | | | | | | | | | | | | SIBR: P Process Code (Si-0.5) is equal to % (Report) or C* (Connection), then a record must already exist in the system with the same Vehicle D (Si-2), Whitele Configuration (Si-3), Manufacture Code (Si-1) and Model * (Si-3.5). SIBR(12: HProcess Code (Si-0.5) is equal to ½ (New) fean a Decision Information record must already write in the southmething B (Si-4). |
| | | Verify's Test Vehicle Information database prior to submitting supplemental confirmatory test | SupplementalInformati onSubmission/Supple mentalInformationDeta | VehicleConfigu | | 1 per CT Supplemental | | | | | | | | | | | | | Manu ture | ac Front | | LD-CFT-SI-BR001a LD-CFT-SI-BR001b LD-CFT-SI-BR004a LD-CFT-SI-BR004b LD-CFT-SI-BR012 | alrady reals in the system with the same Weble B (25-2), Vehicle Configuration (Si-3), Manufacturer Code (Si-1), and Model Yaar (Si-3). SI-BR13: I Process Code (Si-3) is equal to Y (New), then a Supplemental Information record cannot alrady exist in the system with the same Vehicle D (Si-2), Vehicle Configuration (Si-3), Manufacturer Code (Si-1), and Model Yaer (Si-3). |
| SI-3 | Vehicle Configuration # | information. | ls | ationNumber | TRUE | Information | N(2) | Integer | 1 2 | | | 0 | 99 | | | Light Duty | Confirmatory Test E | .g. 701* | ture | r End | XML | LD-CFT-SI-BR013 | SHBR1: If Process Code (SI-0.5) is equal to 'R' (Report) or 'C' (Correction), then a record must already exist in the system with the same Vehicle ID (SI-2), Vehicle Configuration (SI-3), Manufacturer Code (SI-1) and Model Year (SI-3.5). |
| | | | SupplementalInformati | | | | | | | | | | | | | | | | | | | LD-CFT-SI-BR001a LD-CFT-SI-BR001b LD-CFT-SI-BR004a | SI-BR12: II Process Code (SI-0.5) is equal to 'N (New) then a Decision Information record must already exist in the system with the same Vehicle ID (SI-2), Vehicle Configuration (SI-3), Manufacturer Code (SI-1), and Model Year (SI-3.5). |
| SI-3.5 | Model Year | Enter the model year for which the vehicle is being tested. The value for this field | onSubmission/Supple mentalInformationDeta Is | ModelYear | TRUE | 1 per CT Supplemental Information | D(4) | Date | 4 4 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 1970 | 2050 | | | Light Duty | Confirmatory Test | | Manu ture | ac Front r End | XML | LD-CFT-SI-BR004b LD-CFT-SI-BR012 LD-CFT-SI-BR013 | SI-BR13: If Process Code (SI-0.5) is equal to 'N' (New), then a Supplemental Information record cannot already exist in the system with the same Vehicle ID (SI-2), Vehicle Configuration (SI-3), Manufacturer Code (SI-1), and Model Year (SI-3.5). |
| SI-4 | Curb weight | The value for this field will be looked-up from the Test Vehicle Information that was previously entered. | | | TRUE | 1 per CT Supplemental Information | N(5) | Integer | | | | 0 | 14000 | | | Light Duty | Confirmatory Test | VI-29 | Verit | Back y End | Pre Existing Data | | |
| <u>urv</u> | | Enter the actual or estimated drive axle weight with an empty fuel tank for this test vehicle configuration. | Sundamartilista | | | | (4(3) | 94w | | | | | | | | | | | | , | | | |
| SI-5 | Drive axle weight w/ empty tank of fuel | The weight must be | onSubmission/Supple mentalInformationDeta Is | DriveAdeWeigh EmptyTankValu e | TRUE | 1 per CT Supplemental Information | N(5) | Integer | | | | 200 | 14,000 | | | Light Duty | Confirmatory Test | 200 <= WEIGHT <= 14,000 | Manu ture | ac Front r End | XML | | |
| | Drive axle weight w/full | Enter the actual or estimated drive axle weight with a full fuel tank for this test vehicle configuration. The weight must be provided in units of | Supplemental Informati onSubmission/Supple mentalInformationDeta | Drive AdeWeigh | | 1 per CT Supplemental | | | | | | | | | | | | | Manu | ac Front | | | |
| SI-6 | tank of fuel | pounds. | ls | FullTankValue | TRUE | Information | N(5) | Integer | | | | 200 | 14,000 | J | | Light Duty | Confirmatory Test 2 | 00 <= WEIGHT <= 14,000 | ture | r End | XML | 1 | |

Pink = TBD Green = Label/CAFE/GHG Changes Blue = Misc Certification ed = Misc Text Edits Changes

| EPA Data | | | | | | Bas | | | | | | | | | | | | |
|-------------------|---|--|--|------------------------------------|----------|--|----------------------------|----------|----------------------|------------|-------------------------------|---|------------|--------------------|---|------------------|----------------------------------|---|
| element number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity Typ | ta Data Type Descriptio | n Length | Max Length Patter | n Digits a | raction I Digits Min Value | Max Value Allowed Values | Industry | Process | Notes/Questions | Originat or | Collecti on Point on Type | Applicable Business Rules Validation Rules |
| Confirmato | v Test Supplemental Inform | The value for this field | | | | | | | | | | Look-Up Values: 4 = 4-wheel Drive | | | | | | |
| | | will be looked-up from the Test Vehicle Information that was | | | | 1 per CT Supplemental | | | | | | 4 = 4-wheel Drive F = 2-wheel Drive, front R = 2-wheel drive, rear P = Part-time 4-wheel drive | | | | | Pre Back Existing | |
| SI-7 | Test Drive Code | previously entered. | n/a | n/a | TRUE | Information N(1 | 1) Enumeratio | on | | | | A = All wheel drive | Light Duty | Confirmatory Test | VI-13 | Verify | End Data | |
| | | code specifying the location of the steering wheel for this test | SupplementalInformati onSubmission/Supple mentalInformationDetai | o | | 1 per CT | | | | | | Look-Up Values: | | | | | 5 | |
| SI-8 | Steering Wheel Location | wheel for this test vehicle. The value for this field | Is | ocationIdentifier | TRUE | Information A(1 | 1) Enumeratio | on | | | | Look-Up Values; L = Left-hand side R = Right-hand side | Light Duty | Confirmatory Test | | turer | Front End XML | |
| | | will be looked-up from the Test Vehicle | | | | 1 per CT | | | | | | | | | VI-22 | | Pre | |
| SI-9 | Displacement | Information that was previously entered. Select the applicable | n/a | n/a | TRUE | Supplemental Information N(5, | ,3) Decimal | | | 5 | 3 | Look-Up Values: | Light Duty | Confirm atory Test | XXXXXX in Liters | Verify | Back Existing End Data | |
| | | numeric code | | | | | | | | | | 1 = Otto Spark 2 = Stratified Charge 3 = Dirsel | | | | | | |
| | | specifying the type of engine design for this test vehicle. For example, '1' = Otto | | | | | | | | | | 3 = Dresel 4 = Gas Turbine 5 = Rankine | | | | | | |
| | | spark. Other possible | SupplementalInformati onSubmission/Supple mentalInformationDetai | LightDutyEngin | | 1 per CT Supplemental | | | | | | 6 = Stirling 7 = Hybrid 8 = Fuel Cell | | | | Manufac | Front | |
| SI-10 | Engine type code | cell, etc. The value for this field | ls | eTypeldentifier | TRUE | Supplemental Information N(2 | 2) Enumerati | on | | | | 99 = Other | Light Duty | Confirmatory Test | | turer | End XML | |
| | Equivalent test weight | will be looked-up from the Test Vehicle Information that was | | | | 1 per CT Supplemental | | | | | | | | | VI-30 | | Pre | |
| SI-12 | (ETW) | previously entered. | n/a SupplementalInformati | n/a | TRUE | Information N(| 5) Integer | | | | 0 | 14000 | Light Duty | Confirmatory Test | check range between 00000 <= WEIGHT <= 1400 | 00 Verify | Back Existing End Data | |
| | | | SupplementalInformati onSubmission/Supple mentalInformationDetai Is/EPAGeneratedSuppl | FauivaleofTest | | 1 per CT | | | | | | | | | | | | |
| SI-13 | Equivalent test weight unit | Value will automatically be set to 'P' = pounds. | ementalInformationDet ails | WeightUnitIdent | TRUE | Supplemental Information A(1 | 1) String | | | | | P = Pounds | Light Duty | Confirmatory Test | Assigned default value = "P" | Verify | Back Assigne End d | 8 |
| | | | SupplementalInformati onSubmission/Supple mentalInformationDetai | | | | | | | | | | | | | | | |
| | | Will be set automatically to '1' | ls/EPAGeneratedSuppl ementalInformationDet | | | 1 per CT Supplemental | | | | | | | | | | | Back Assigne End d | 8 |
| SI-14 | Model code | | ails SupplementalInformati onSubmission/Supple | ModelYear | TRUE | Information A(2 | 2) String | | | | | 1 = Sedan | Light Duty | Confirmatory Test | Assigned default value = "1" | Verify | End d | |
| | | MGII ha a at | mentalInformationDetai Is/EPAGeneratedSuppl ementalInformationDet | | | 1 per CT | | | | | | | | | | | | |
| SI-15 | Vehicle Type Description | (Cert Emission Data). | ementalInformationDet ails | VehicleTypeDe scriptionText | TRUE | Supplemental Information N(2 | 2) Integer | _ | | | | 1 = Cert Emission Data | Light Duty | Confirm atory Test | Assigned default value = "1" | Verify | Back Assigne End d | 5 |
| | | Enter the front wheel tire pressure used for dynamometer testing | SupplementalInformati | | | | | | | | | | | | | | | |
| SL16 | Front wheel tire pressure | of this test vehicle, in units of pounds per square inch | onSubmission/Supple mentalInformationDetai Is | FrontWheelTire PressureValue | TRUE | 1 per CT Supplemental Information N(2 | 3) Integer | | | | | | Light Duty | Confirmatory Test | | Manufac turer | Front End XML | |
| UP TO | | Enter the rear wheel tire pressure used for | | | | | 7) Integer | | | | | | - 3 | | | | | |
| | | dynamometer testing of this test vehicle, in units of pounds per | SupplementalInformati onSubmission/Supple mentalInformationDetai | RearWheelTire | | 1 per CT Supplemental | | | | | | | | | | Manufac | Front | |
| SI-17 | Rear wheel tire pressure | square inch. | ls | PressureValue | TRUE | Information N(2 | 3) Integer | | | | | | Light Duty | Confirmatory Test | | turer | End XML | |
| | | Enter the standard tire/rim size description as imprinted on the | SupplementalInformati onSubmission/Supple mentalInformationDetai | RimAndTireSize | | 1 per CT Supplemental | | | | | | | | | | Manufac | Front | |
| SI-18 | Rim and tire size | side wall of the tire. Does this test vehicle | Is SupplementalInformati | DescriptionText DriverSelectabl | TRUE | Information A(2 | 0) String | 1 | 20 | | | | Light Duty | Confirmatory Test | | turer | Front End XML | |
| SI-19 | Driver selectable transmission? | have a driver- selectable transmission? | onSubmission/Supple mentalInformationDetai Is | eTransmissionI ndicator | TRUE | Supplemental Information A(1 | I) Enumeratio | on | | | | Look-Up Values: Y = Yes N = No | Light Duty | Confirmatory Test | | Manufac turer | Front End XML | |
| | | Enter a description of | | | | | | | | | | | | | | | | |
| | | the driver-selectable transmission mode that should be used for | | | | | | | | | | | | | | | | |
| | | this test. For example, drive in fully automatic | | | | | | | | | | | | | | | | |
| | | mode or using the select shift mode. This field is required if | SupplementalInformati onSubmission/Supple | DriverSelectabl | | 1 per CT | | | | | | | | | | | | |
| SI-20 | Transmission mode tested description | Driver Selectable Transmission' = 'Y. | mentalInformationDetai Is | eTransmission DescriptionText | FALSE | Supplemental Information A(5 | 0) String | 1 | 50 | | | 1. A ALTORATIC JURY ARREND NO LOCKUM | Light Duty | Confirmatory Test | | Manufac turer | Front End XML | SI-BR2: # Driver Selectable Transmission (SI-19) is equal to Y (Yes), then Transmission Mode LD-CFT-SI-BR002 Tested Description (SI-20) is required. |
| | | | | | | | | | | | | AG MANUAL 3 GREED(NO CREEPER) AMANUAL 4 GREED(NO CREEPER) AMANUAL 4 GREED(NO CREEPER) AMANUAL 5 GREED(NO CREEPER) AMANUAL 5 GREED(NO CREEPER) | | | | | | |
| | | | | | | | | | | | | ALAUTOMATIC 3-SPEED(NO LOCKUP) LI AUTOMATIC 3-SPEED (LOCKUP) ALAUTOMATIC 4-SPEED(NO LOCKUP) ALAUTOMATIC 4-SPEED(NO LOCKUP) | | | | | | |
| | | | | | | | | | | | | 10 - CS MANUAL S SPEED (CREPER) 10 - CS MANUAL S SPEED (CREPER) 12 - CS MANUAL S SPEED (CREPER) 15 - SA2 SEMI-AUTOMATIC 2 SPEED | | | | | | |
| | | | | | | | | | | | | 16 - SAJ SEMI-AUTOMATIC 3-SPEED 17 - SA4 SEMI-AUTOMATIC 4-SPEED 18 - SAS SEMI-AUTOMATIC 5-SPEED 20 - MMUMANUAL 6-SPEED(ND CREEPER) | | | | | | |
| | | | | | | | | | | | | 21 - AS AUTOMATIC S SPEED (NO LOCKUP) 22 - LS AUTOMATIC S SPEED (LOCKUP) 23 - CEMANUAR & SPEED (CREEPER) 24 - AS AUTOMATIC & SPEED (NO LOCKUP) | | | | | | |
| | | | | | | | | | | | | 25 - SAESEMI-AUTOMATIC & SPEED 26 - LA AUTOMATIC & SPEED (LOCKLP) 27 - L7 AUTOMATIC 7-SPEED (LOCKLP) 28 - SAY SEMI-AUTOMATIC 7-SPEED | | | | | | |
| | | The value for this field will be determined | | | | | | | | | | 29 - A7 AUTOMATIC 7-SPEED(NO LOCKUP) 20 - M7 MANUAL 7-SPEED(NO CREEPER) 31 - C7 MANUAL 7-SPEED(CREEPER) 32 - LB AUTOMATIC INSPEED (CREEPER) | | | | | | |
| | | from the values entered for 'transmission type', | | | | | | | | | | 23 - SARSEMI-AUTOMATIC & SPEED 34 - AB AUTOMATIC & SPEED(NO LOCKUP) 25 - MIMANUAL & SPEED(NO CREEPER) 36 - CREATING & SPEED | | | | | | |
| | | 'transmission lockup', creeper gear', and 'number of | | | | | | | | | | 37 - M MANUAL <3 OR >6-SPEED 40 - CACVTMADNIE (-SPEED (NO CREEPER) 51 - AND AUTOMATIC-MANUAL 2-SPEED 51 - AND AUTOMATIC-MANUAL 2-SPEED | | | | | | |
| | | transmission gears' that are part of the Test | | | | | | | | | | 12 - AMA AUTOMANI, SAMANUAL SAPEED 53 - AMA AUTOMATIC-MANUAL & SPEED 54 - AMA AUTOMATIC-MANUAL & SPEED 55 - AMA AUTOMATIC-MANUAL & SPEED 55 - AMA AUTOMATIC-MANUAL & SPEED | | | | | | |
| SI-21 | Transmission Configuration Code | Vehicle Information dataset that was previously entered. | n/a | n/a | TRUE | 1 per CT Supplemental Information N(2 | 2) Enumeratio | on | | | | A 44/100/16 (2014) 6 9500 (2012) 000 A 44/100/16 (2014) 6 9500 (2012) 000 A 44/100/16 (2014) 000 A 44/100/16 (20 | Light Duty | Confirmatory Test | VI-36, VI-38, VI-39, VI-40 | Verify | Pre Back Existing End Data | |
| | | | | | | | | | | | | | | | | | | |
| | | Select the appropriate | | | | 1 per CT Supplemental | | | | | | 101' = Emission Data Vehicle (EDV) | | | | | Pre Back Existing | |
| SI-24 | Vehicle purpose | purpose for this test. | SupplementalInformati onSubmission/Supple | | TRUE | Information N(2 | 2) Enumeratio | on | | ++ | | '31' = Fuel Economy | Light Duty | Confirmatory Test | DI-25.1 | Verify | End Data | SHBR17: II Test Fuel Type Code for EPA Confirmatory Testing (DI-38.5) is not equal to '50' |
| SI-26 | Iominal main tank capacity | main fuel tank capacity | onSubmission/Supple mentalInformationDetai Is | FuelTankCapac ityMeasure | FALSE | 1 per CT Supplemental Information N(4, | ,1) Decimal | | | 4 | 1 0 | 999.9 | Light Duty | Confirmatory Test | | Manufac turer | Front End XML | (Hydrogen) or '62' (electricity), then Nominal Main Fuel Tank Capacity (SI-26) and Fuel Tank |
| · · · · · · | | | | | | | | | | | | | | | | | | |

| number | Long Name ry Test Supplemental Inform | Description | Parent's Name | XML Tag | Required | Multiplicity | Type | Description | Length Length Pattern | Digits al Dig | its Min V | alue Max Value | Allowed Values | Industry | Process | Notes/Questions or | on Po | int on Type | Applicable Business Rules | Validation Rules |
|----------------|--|---|--|--------------------------------|----------|---------------------------------|---------|----------------------|-----------------------|---------------|-----------|----------------|---|-------------|--------------------------|--------------------|------------|--------------------|---------------------------|--|
| Contirmate | ry test Supplemental Inform: | ation | SupplementalInformat | i | | | | | | | | | | | | | | - | | |
| | | Select the applicable fuel tank units. 'G' = | onSubmission/Supple mentalInformationDeta | i FuelTankCapa | c | 1 per CT Supplemental | | | | | | | 'G' = gallons | | | Manufa | ac Fror | | | SI-BR17: If Test Fuel Type Code for EPA Confirmatory Testing (DI-38.5) is not equal to '50' (Hydrogen) or '62' (electricity), then Nominal Main Fuel Tank Capacity (SI-26) and Fuel Tank |
| SI-27 | Fuel tank capacity unit | gallons; L' = liters | ls SupplementalInformat | ityUnitIdentifier | FALSE | Information | A(1) | Enumeration | | | | | 'G' = gallons L' = liters | Light Duty | Confirmatory Test | turer | Enc | XML | LD-CFT-SI-BR017 | (Hydrogen) or 62' (electricity), then Nominal Main Fuel Tank Capacity (SI-26) and Fuel Tank Capacity Unit (SI-27) are required. |
| | | Enter the nominal | onSubmission/Supple | AuxilliaryFuelTa | 1 | 1 per CT | | | | | | | | | | | | | | |
| SI-28 | Nominal auxiliary tank capacity | auxiliary tank capacity of the test vehicle. | mentalInformationDeta Is | i nkCapacityMea sure | | Supplemental Information | N(4,1) | Decimal | | 4 1 | 0 | 999.9 | | Light Duty | Confirmatory Test | Manufa turer | Enc | it XML | | |
| 3P26 | cupacity | The value for this field | | Jule | PACOE | incritic con | 14(4,1) | Decimai | | | | 333.3 | | eigintooliy | Community reat | Mitter | CTR. | | | |
| | | | | | | 1 per CT | | | | | | | | | | | | Pre | | |
| | Electric dyno target | the Test Vehicle Information that was | | | | Supplemental | | | | | | | | | | | Bad | k Existing | | |
| SI-29 | coefficient A | previously entered. The value for this field | n/a | n/a | FALSE | Information | N(6,3) | Decimal | | 6 3 | -999. | 999 999.999 | | Light Duty | Confirmatory Test | VI-41 Verify | r Enc | Data | | |
| | | will be looked-up from | | | | | | | | | | | | | | | | | | |
| | Electric dyno target | the Test Vehicle Information that was | | | | 1 per CT Supplemental | | | | | | | | | | | Bad | Pre Existing | | |
| SI-30 | Electric dyno target coefficient B | previously entered. | n/a | n/a | FALSE | Information | N(6,5) | Decimal | | 6 5 | -9.99 | 9999 9.99999 | | Light Duty | Confirmatory Test | VI-42 Verify | Bad Enc | i Data | | |
| | | The value for this field will be looked-up from | | | | | | | | | | | | | | | | | | |
| | | the Test Vehicle | | | | 1 per CT | | | | | | | | | | | | Pre | | |
| SI-31 | Electric dyno target coefficient C | Information that was previously entered. | n/a | n/a | FALSE | Information | N(7,6) | Decimal | | 7 6 | -9.99 | 9999 9.999999 | | Light Duty | Confirmatory Test | VI-43 Verify | Bad Enc | k Existing Data | | |
| | | The value for this field | | | | | | | | | | | | | | | | | | |
| | | will be looked-up from the Test Vehicle | | | | 1 per CT | | | | | | | | | | | | Pre | | |
| SI-32 | Electric dyno set coefficient | Information that was | n/a | n/a | 511.05 | Supplemental | N(6,3) | Decimal | | | 000 | 999 999.999 | | Links Durbs | Confirmatory Test | VI-44 Verify | Bad Enc | k Existing Data | | |
| SI-32 | А | previously entered. The value for this field | n/a | n/a | FALSE | information | N(6,3) | Decimal | | 6 3 | -999. | 222 222.223 | | Light Duty | Contirmatory Test | VI-44 Venty | / End | Data | | |
| | | will be looked-up from the Test Vehicle | | | | 1 per CT | | | | | | | | | | | | Pre | | |
| | Electric dyno set coefficient | Information that was | | | | Supplemental | | | | | | | | | | | Bad | k Existing | | |
| SI-33 | В | previously entered. The value for this field | n/a | n/a | FALSE | Information | N(6,5) | Decimal | | 7 6 | -9.99 | 9999 9.999999 | | Light Duty | Confirmatory Test | VI-45 Verify | r End | i Data | | |
| | | will be looked-up from | 1 | 1 | | | | | | | | | | | | | | 1 | | |
| | Mantaia dana ant anofficiant | the Test Vehicle Information that was | | | | 1 per CT | | | | | | | | | | | Bac | Pre Existing | | |
| SI-34 | Electric dyno set coefficient C | previously entered. | n/a | n/a | FALSE | Information | N(7,6) | Decimal | | 7 6 | -9.99 | 9999 9.999999 | | Light Duty | Confirmatory Test | VI-46 Verify | Enc | k Existing Data | | |
| | | The value for this field | | | | | | | | | | | Look-Up Table Values | | | | | | | |
| | | will be looked-up from the Test Vehicle Information that was | 1 | 1 | | 1 per CT | | | | | | | 1' = not equipped 2' = equipped, not shifted by SIL; 3' = equipped, shifted by SIL; | | | | | Pre | | |
| 01.98 | Shift Indicator Light Code | Information that was previously entered. | n/a | n/a | TPUT | Supplemental | A(1) | Enumeratio | | | | | 3' = equipped, shifted by SIL; 5' = equipped, shifted by Survey Schedule. | Light Dut- | Confirmatory Test | VI-14 Verify | Bad | k Existing Data | | |
| arab | state and the second second second | | 10.04 | | INUE | Janon marchi | /(1) | chamerauon | | | | | | Light Daty | seriminany lest | verity verity | | . Juid | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | The 55 mph to 45 mph coastdown time (in | 1 | 1 | | | | | | | | | | | | | | | | |
| | | seconds) from the | | | | | | | | | | | | | | | | | | |
| | | track (target) coastdown. This field | | | | | | | | | | | | | | | | | | |
| | | is optional. If a value i | s SupplementalInformat onSubmission/Supple | i | | | | | | | | | | | | | | | | |
| | | the need to conduct a | mentalInformationDeta | ii TargetCoastDo | | 1 per CT Supplemental | | | | | | | | | | Manufa | ac From | | | |
| SI-37 | Target Coastdown Time | 55-45 mph coastdown | n. Is | wnTimeValue | FALSE | Information | N(5,2) | Decimal | | 5 2 | -999 | .99 999.99 | | Light Duty | Confirmatory Test | turer | Enc | XML | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | Catao das assessas | Council and a statistical statistics | | | | | | | | | | | | | | | | | |
| | | hybrid battery voltage | onSubmission/Supple | NominalHybrid | | 1 per CT | | | | | | | | | | | | | | |
| NEW SI-37.5 | Nominal Hybrid Battery | for this test vehicle in wolte | mentaInformationDet | BatteryVoltage | EAL OF | Supplemental | | later and the second | | | | | | Light Duty | Confirmatory Test | Manufa | a From | t YMI | NEW-LD-CET-SI-BR026 | NEW: If Hybrid Indicator (VI-10.6) is equal to "Yes", then Nominal Hybrid Battery Voltage (SI- 17.5) is required, otherwise it is not allowed. |
| 01-07-05 | voltage (volta) | · · · · · | | Turbe | PALOE | | PR(3) | integer | | | | | | Light Duty | | | | | | or sy a required, energined in a ner allowed. |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | Enter the maximum | Supplementalinformat | 6 | | | | | | | | | | | | | | | | |
| NEW | Manimum Mahaid Damasa | hybrid battery system | onSubmission/Supple | Maximum Hybr | 1 | 1 per CT | | | | | | | | | | Marriel | | | | NDV. A Merid Indiantes (N. 40 P) is assorber "Ves" along "Meridians" Method Balton Consent" (P) |
| SI-37.6 | Current (amps) | vehicle in amps. | ails | tValue | FALSE | Information | N(3) | Integer | | | 0 | 999 | | Light Duty | Confirmatory Test | cturer | r End | XML | NEW: LD-CFT-SI-BR027 | NEW: If Hybrid Indicator (VI-10.6) is equal to "Yes", then "Maximum Hybrid Battery Current" (SI- 37.6) is required, otherwise it is not allowed. |
| | | | | 1 | | | | | | | | | | | | | | | | |
| | | Select 'Y' = Evaporative emission control | 2 | 1 | | | | | | | | | | | | | | | | |
| | | canister is loaded with | 1 | | | | | | | | | | | | | | | | | |
| | | butane or gasoline vapor prior to the start | SupplementalInformat | i | | | | | | | | | | | | | | | | |
| | | vapor prior to the start of an emission or fuel economy test or 'N' = | SupplementalInformat onSubmission/Supple mentalInformationDeta | Consistent of the | | 1 per CT | | | | | | | Y = Yes | | | | ac Fror | | | |
| SI-38 | Canister loading? | economytest or 'N' = No loading required. | mentalInformationDeta Is | i CanisterLoadir gIndicator | TRUE | Supplemental Information | A(1) | Enumeration | | | | | Y = Yes N = No | Light Duty | Confirmatory Test | Manufa turer | Enc | it XML | | |
| | | | | | | | | | | | | | | ĺ ĺ | | | | | | |
| | | 1 | 1 | 1 | | | | | | | | | | | | | | | | |
| | | L | L | | | | | | | | | | | | | | | | | |
| | | The number of evaporative emission | SupplementalInformat onSubmission/Supple | | | 1 per CT | | | | | | | | | | | | | | SI-BR3: If Canister Loading (SI-38) is equal to Y (Yes), then Number of Canisters (SI-39) is |
| | | control canisters on this test vehicle | mentalInformationDeta | i TotalCanisterC | | Supplemental | 1. 1 | | | | | 18 | | | | Manufa | Fror | t XM | 10.077 | required and Canister Working Capacity (SI-40) and Total Canister Volume (SI-41) are required for each canister. |
| SI-39 | Number of canisters | this test vehicle. Enter the working | Is | ount | FALSE | Information | N(2) | Integer | | | 1 | 18 | | Light Duty | Confirmatory Test | turer | Enc | XML | LD-CFT-SI-BR003 | tor each canister. |
| | | capacity and total | | | | | | | | | | | | | | | | | | |
| | | volume for each cannister. | | | | 1n | | | | | | | | | | | | | | |
| | Current of Details | Enter the grams of | | 1 | | 11 | | | | | | | | | | | | | | |
| | | hydrocarbon which are adsorbed and de- | e SupplementalInformat | | | 1 per Canister | | | | | | | | | | | | | | |
| | | sorbed by loading and | onSubmission/Supple | CanisterWorkin | 1 | 1 per Canister Number per CT | | | | | | | | | | | | | | SI-BR3: If Canister Loading (SI-38) is equal to 'Y' (Yes), then Number of Canisters (SI-39) is |
| SI-40 | Canister(s) working capacity | purging of the canister on this test vehicle. | mentalInformationDeta Is/CanisterDetails | ii gCapacityMeas ure | FALSE | Supplemental Information | N(3) | Integer | | | | 999 | | Light Duty | Confirmatory Test | Manufa turer | Enc | | LD-CFT-SI-BR003 | required and Canister Working Capacity (SI-40) and Total Canister Volume (SI-41) are required for each canister. |
| 0140 | сараску | | arcanisterbefälls | ule | FALSE | anormason | 14(3) | integer | | | 0 | 333 | | agnicodty | Commany lest | turer | ENC | ANL | CDPOF IPSPDR003 | Not subset subminines. |
| | | Enter the total canister | r | 1 | | | | | | | | | | | | | | | | |
| | | volume, in cubic centimeters, of | 1 | 1 | | | | | | | | | | | | | | | | |
| | | activated carbon in the | Supplemental Information Supplemental Supplementation Suppleme | | | 1 per Canister Number per CT | . | | | | | | | | | | | | | PLDDs. & Consistent and in a (PLDD) is served to 54 PC - 1 A |
| | | control canisters for | onSubmission/Supple mentalInformationDeta Is/CanisterDetails | i TotalCanisterVi | • | Supplemental | | | | | | | | | | Manufa | Enc | | | SI-BR3: If Canister Loading (SI-38) is equal to 'Y (Yes), then Number of Canisters (SI-39) is required and Canister Working Capacity (SI-40) and Total Canister Volume (SI-41) are required for each canister. |
| SI-41 | Total canister volume | this test vehicle. | ls/CanisterDetails | lumeMeasure | FALSE | Information | N(6) | Integer | | | 0 | 999999 | | Light Duty | Confirmatory Test | turer | Enc | XML | LD-CFT-SI-BR003 | for each canister. |
| | | Enter the primary and | | | | | | | | | | | | | | | | | | |
| | | Enter the primary and additional engine cooling fan placemen | | | | | | | | | | | | | | | | | | |
| | Engine Cooling Err | cooling fan placemen code for each test | t. | | | | | | | | | | | | | | | | | |
| | Engine Cooling Fan Placement Details | procedure. | | | | 1n | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

EPA Data element Basic Data Data Type

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EPADa

| omirmatory lest supplemental informs | ation | | | | | | | _ | | | _ | | | | | | | | | | |
|--|--|---|---|-------|--|--------------|-----------------------|-----|------|---|---|-------|--|------------|--------------------|---|-----------------------------|--------------|---------------------|-----------------|---|
| | The value for this field will be looked-up from the Test Vehicle Information that was previously entered. The vehicle odometer distance units for this test vehicle. 'M = miles; 'K' = kilometers | SupplementalInformati onSubmission/Supple mentalInformationDetai Is/EPAGeneratedSuppl ementalInformationDet ails | OdometerUnits Code | TRUE | 1 per CT Supplemental Information | A(1) | Enumeration | | | | | | Look-Uo Values M = miles V = kioneters | Light Duty | Confirmatory Test | VI-19 | Verify | Back End | Assigne d | | |
| | The value for this field will be looked-up from the Test Vehicle Information that was previously entered. The multiplicative numeric adjustment factor used in the equations to calculate "system" miles on this test vehicle. | SupplementalInformati onSubmission/Supple mentalInformationDetai Is/EPAGeneratedSuppl ementalInformationDet ails | Correction Facto rValue | TRUE | 1 per CT Supplemental Information | N(5,4) | Decimal | | | 5 | 4 | | | Light Duty | Confirmatory Test | 947 | Verify | | Assigne | | |
| | The value for this field will be looked-up from the Test Vehicle Information that was previously entered. A 14° or 1° symbol for the odometer correction sign is used to adjust the fuel economy of a test vehicle if the vehicle has over 6200 system miles. | Supplementalinformati onSubmissionSupple mentalinformationDetai Is/EPAGeneratedSuppl ementalinformationDet alis | CorrectionSignI | TRUE | 1 per CT Supplemental Information | A(1) | Enumeration | | | | | | Look-Up Values: V | Light Duty | ConfirmatoryTest | Vi-18 | Venify | Back End | Assigne | | |
| SI-53 Wheel base | The distance between the parallel centerlines of the front and rear ake of this test whicle. This is needed for setting the front and rear roll spacing for testing four wheel drive vehicles on a chassis dynamometer. The wheel base units | Supplementalinformati onSubmission/Supple mentalinformationDetai Is | WheelBaseMea sure | TRUE | 1 per CT Supplemental Information | N(3) | Integer | | | | | 0 999 | | Light Duty | Confirmatory Test | | Manufac | Front End | XML | | |
| | for the wheel base distance provided above for this test vehicle. 'm' = inches, or 'cm' = centimeters. | SupplementalInformati onSubmission/Supple mentalInformationDetai Is SupplementalInformati onSubmission/Supple mentalInformationDetai | WheelBaseUnit sldentifier TestVehicleCo | TRUE | 1 per CT Supplemental Information | A(2) | Enumeration | | | | | | <u>Look-Up Values:</u> In = inches, 'em' = centimeters | Light Duty | Confirmatory Test | | Manufac turer Manufac | Front End | XML. | | SIBRE: I Engine Type (S-10) is equal to 'Oher' (99) then Test Vehicle Infomation Comments |
| SI-55 Comments | Manufacturer defined. | ls | mmentText | FALSE | Information | A(1000) | String | 1 1 | 1000 | | | | | Light Duty | Confirm atory Test | | turer | End | XML | LD-CFT-SI-BR006 | (SI-55) are required. (SI-55) are required. SI-BR18: If a Test Procedure Code Selected for EPAConfirmatory Testing (SI-41.5) is equal to |
| | ts and Cert Levels enter The test group that was entered on the original Confirmatory Test Decision Information (DI-7) will be picked up by Verify | ed for each Certification SupplementalInformation onSubmission/Supple mentalInformationDetai Is/EPAGeneratedSuppl ementalInformationDet ails/EPAGeneratedExh austEmissionCertificati | | | 1 per CT Supplemental | | | | | | | | | Light Duty | | The test group should be pulled in from the Confirmatory Test Decision Information stored or | | Back | Arrigge | SI-BR18 | 37, 217, 257, or 390, then at least one Exhaust Standard for the test procedure (SH22) is required SH2R118: If a Test Procedure Code Selected for EPAC onfirmatory Testino (SH115) is equal to |
| SI-55 Test Group SI-56 Certification Region Code | on the back-end. ' | onLevelDetails SupplementalInformati onSubmission/Supple mentalInformationDetails iscRaturgEmissionSt andardDetails | e CertificationReg ionCode | TRUE | Information I per Combination Combination Combination Control Certification Code + Certification Code + Vehicle Certification Ce | e :t + | String Enumeration | 12 | 12 | | | | CA+ California + CAASertion 177 states FA+ Federal | Light Duty | Confirmatory Test | file back-end (D-7) | Verify Manufac turer | Front End | Assigne d XML | LD-CFT-SHERO16 | 21, 22, or 90, then at least one Exhaust Standard for the test procedure (S-92) is required. SHB15: If a Test Procedure Code Selected for EPAC confirmatory Testing (S-41.5) is equal to 3, 21, 22, or 90, then at least one Exhaust Standard for the test procedure (S-92) is required. |
| | Verify will assign a default union of "C" (Centification) for all Supplemental Information stundards. | Supplemental/hformati ordsafmission/Supplei methallformatelfmission/Supplei substitutettimission/Supplei andard/Details | CertificationInU seCode | TRUE | 1 per combination of Test Group + Certification Region Code + Certification/InUte Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust standardLOF info | t | Enumeration | | | | | | C - Certification | Light Duty | ConfirmatoryTest | Assign a default value = "C" | Venify | Front | Assigned | LD-CFT-SH8R014 | SI-BR14: Exhaust Certification/h-Use Code (SI-80) must equal C' (Certification). SI-BR14: Ta Test-Procedure Code Selected for EPA-Continnatory Testing (SI-41.5) is equal to 2 , 21, 72, 72, 99, 99) and tasts for EBA-continuation for the selectoredure (SI-82) an equival. |

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EPA Data element

numb

Basic Data Data Type

Min Max

Total Fractio

Originat Collecti

| EPA Data element pumber Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Data Type Type Description | <u>Min Max</u> Length Lengt | Total Fraction h Pattern Digits al Digits | Min Value Max Value | Allowed Values | Industry | Process | NotesiQuestions | Originat or on Poin | Collecti on Type Applicable Business Rules | Validation Rules |
|---|--|--|--|----------|---|---|--------------------------------|--|---------------------|--|------------------|-------------------|-----------------|----------------------------|---|--|
| Footfrmater, Test Supplemental Infor | mailen | Supplementalinformati | | | 1 per combination of Test Group + Certification - Region Code + Certification-flutus e Code + Vehicle Clasmischaust Standard Level + Fuel + Test Procedure + Useful Lée + Emission Name identifies a unique set of | | | | | Ear Facture or California Certification Region. Color: DVI - LDVI (MV 9740, CWV 0-6000). DVI - LDVI (MV 9740, CWV 0-6000). LDVI - LDVI (MV 9740, CWV 0-6000). LDVI - LDVI (MV 9740, CWV 0-6000). LDVI - LDVI (MV 9740, CWV 0-6000). LDVI - LDVI (MV 9740, CWV 0-6000). LDVI - LDVI (MV 9740, CWV 0-6000). MDVI - LDVI (Febrail HO 1-6000). LDVI - LDVI (MV 9740, CWV 0-7760, C | | | | | | SHBR18: If a Test Procedure Code Solected for EPAContinnatoryTesting (SI+1.5) is equal to '2', |
| SI-91 Vehicle Class | Select the applicable vehicle class for this exhaust standard. | onSubmission/Supple mentalInformationDetai Is/ExhaustEmissionsSt | VehicleClassId entifier | TRUE | exhaust standard/DF info. 1n | A(4) Enumeration | | | | For California Certification Region Code: M6 - MDV6 (Cal. LEV 2 MDV GVW 8501-10000 M7 - MDV7 (Cal. LEV 2 MDV GVW 10001- 14000) | l. Light Duty | Confirmatory Test | | Manufac Front turer End | LD-CFT-SI-BR018 XML LD-CFT-SI-BR025 | 3°, 21°, 25°, or 90°, then at least one Exhaust Standard for the test procedure (SH-S2) is required. SHBR25: The EPA Vehicle Class (SH91) cannot be equal to 'LDVT' (LDV + LDT1) at the Exhaust Emission Standard Level. |
| Exhaust Emission Standars S:477A Level | Select the applicable e standard lovel for this exhaust standard. | SupplementalInformati onSubmission/Supple mentalInformationDeatu Exchanast Rimissions St andardDetails | ExhaustEmissi onsStandardLe velidentišer | TRUE | 1 per combination of Test Group + Certification/Ruts ecode + Vehicle Class + Exhaust Encide + Vehicle Standard Level + Fuel + Test Procedure + Usehil Life + Emission Name eintifies a unique set of exhaust standard/DF info. 1_n | A(5) Enumeration | | | | 61 - Bin 1 62 - Bin 2 63 - Bin 3 64 - Bin 5 66 - Bin 6 66 - Bin 6 67 - Bin 7 68 - Bin 6 68 - Bin 1 69 - Bin 1 69 - Bin 1 69 - Bin 1 100 - Fel 100 - Day Objectsis Cer Sel 1.3 - CARE LEV LEV 1.3 - CARE LEV LEV 1.3 - CARE LEV LEV 1.3 - CARE LEV LEV 1.3 - CARE LEV LEV 2.3 - CARE LEV LEV 2.3 - CARE LEV LEV 2.3 - CARE LEV LEV 2.3 - CARE LEV LEV 2.5 - CARE LEV LEV 3.5 - CARE LEV | Light Duty | Confirmatory Test | | Manufac Front lurer End | LD-GT-SH8RD18 XXL D-GT-SH8RD18 | SHBR115: If a Test Procedure Code Selected for EPAConfirmatoryTesting (SI-11.5) is equal to 27, 7, 21, 22, 07.993, then at least one Enhancis Bandas for the test procedure (SI-42) is required. SIBR21: effor Centerion Region Code (SI-6) for 17 (reference) free the Exhaust Emission Standard Level (SI-574) should be a Federal Bandasd. |
| 51-66.5 Pant | Select the applicable fuel for this exhaust standard. | Supplementalinformati onSubmission@submission@sub IstEAtuatsEmissions21 andardDetails | Fuelkdentifier | TRUE | 1 per combination of Test Group + Certification n Certification/InUs e Code + Vehicle Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Usehil Life + Emission Name identifies a unique set of exhaust standard/DF inflo. | A(3) Enumeration | | | | G - Caustion D - Stread M - Michanol Cite: Compress Matural Oss Cite: Compress Matural Oss Cite: Compress Matural Oss Cite: Compress Disc: Co | Light Duty | ConfirmatoryTest | | Manufac Front Luter End | LDCTT-5480918 3X4. NIY: LDCTT-5480918 | SHBR18: If a Test Procedure Code Selected for EPAContimutory Testing (SI-11.6) is equal to "2", "2", "2", "2", "2", "2", "3", "4", "4", "4", "4", "4", "4", "4 |
| SI-92 Test Procedure | Enter the applicable test procedure for this exhaust emission standard. | Supplementalinformati or&umission@suppl latEAtaustEmailon2 andardDetais | Tes:Pocedure1 dentifer | TRUE | 1 per combination of Test förug + Certification Certification Code v Velicie Class + Exhaust Emission Sandard Level + Procedure + Emission Nare identifies a unique set of exhaust standardDP info. | N(2) Enumeration | | | | Local Analysis and Later and La | Light-Duty | Continuatory Test | | Manufac Front | AL LDCT:518018 | SHBR18: Ha TestProcedure Code Selected for EPACcontinuatory Testing (SH11.6) is equal to '2', '7', '2', '2', '9', 'Pen at least one Enhance Enhanced for the test procedure (SH21.6) is equal to '2', |
| 3140 Userful Life Mileoge | Select the applicable useful life mileage for the exhaust standard. | SupplementalInformati onSubmissionSupplementalInformationDetai IsE-Braudz Fina Sions2 andstriDetails | Useful Life/Miea geldentifier | TRUE | 1 per combination of Test Group + Certification //US Region Code + Code + Vehicle Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust standard/DF info. 1_n | N(3) Enumeration | | | | 4 = 4,000 miles 00 = 50,000 miles 103 = 103,000 miles 103 = 103,000 miles | Light Duty | ConfirmatoryTest | | Manufac Front Jurer End | 30L LD-071-51-89(018 | SHBR18: If a Test Procedure Code Selected for EPAC confirmatory Testing (SH1.5) is equal to 27, 7, 717, 25, or 90; free at least one Enhance Bandard for the test procedure (SH2) is required. |

| EPA Data element number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Description | Min Length Le | Max ength Pattern | Total Fra Digits al | action Digits M | lin Value M | Aax Value | Allowed Values | Industry | Process | Notes/Questions | Origina or | t Collecti on Point | Collecti on Type | Applicable Business Rules | Validation Rules |
|-------------------------------|---|--|--|--|----------|--|-----------------------|--------------------------|------------------|---|------------------------|--------------------|-------------|-----------|---|------------|-------------------|---|---------------------------|------------------------|---------------------|---|--|
| S+59 | re et supprend ander | Select Bo applicable emission same for Bit ehaust standard. | Supplementalihotemati enSuhmisionSupple LineThaustiff mais sions 20 andardDetails Supplementalihotemati | TesiResultident | TRUE | 1 per combination of Test (Snoup) Region Code + Certification Region Code + Catas + Ebhauer Catas + Ebhauer Catas + Ebhauer Jonadar Love + Testission Name Jonadar Love + Testission Name Jonadar Love + Standard Love + Standard De Into. 1.n | A(16) | Enumeration | | | | | | | Of Schulzmannen Official Carbon Related Ethouses Official Carbon Related Official Carbon Related | Light Duty | ContinuatoryTest | | Manufa | c Front End | XML | LD-CTT-SI-BROTS Add LD-CTT-SI-BROTS LD-CTT-SI-BROTS LD-CTT-SI-BROTS CTT-SI-BROTS NEW | SHBR15: If a Test Procedum Code Selected for EPA/Confirmatory Testing (SH41.5) is equal to 7, 7, 72; 72; 73; 70; 70; 70; 74; 74; 74; 74; 74; 74; 74; 74; 74; 74 |
| SH61 | Emission Standard Value | generated numeric field based on converting the text value entered by the manufacturer for "Emission Standard Value (Text)" (SI-62). | onSubmission/Supple mentalInformationDetai Is/EPAGeneratedSuppl ementalInformationDet ails/EPAGeneratedExh austEmissionCertificati | EmissionStand ardValue | TRUE | 11 for each unique set of exhaust standard/DF info. | N(7,4) | Decimal | | | 7 | 4 | 0 9 | 99.9999 | | Light Duty | ConfirmatoryTest | e . | Verify | Back End | Assigne d | LD-CFT-SI-BR018 | SHBR18: If a Test Procedure Code Selected for EPA Confirmatory Testing (SH 1.5) is equal to \mathcal{I}_{-} \mathcal{I}_{-} 21, \mathcal{I}_{-} \mathcal{I}_{-} with then at least one Enhance Submidted for the test procedure (SH 20) is required. |
| SI-62 | Emission Standard Value (Text) | Enter the applicable numeric value for this exhaust standard name including any additional digits that are necessary for proper rounding. Select the applicable | SupplementalInformati onSubmission/Supple | ExhaustEmissi onsStandardVal ueText | TRUE | 11 for each unique set of exhaust standard/DF info. 11 for each | A(8) | Numeric string | | ([0- 9)(1,3)[\.]](0- 9)(1,4))] ([\.][0- 9)(1,4))] ([0- 9)(1,3)[\. 9)(1,3)[\. .]?) | | | | | MFRA – Mr. Assigned EPAA – EPA Assigned | Light Duty | Confirmatory Test | | Manufa turer | c Front End | XML. | LD-CFT-SI-BR018 | SHB118: If a Test Procedum Code Selected for EPA.Confirmatory Testing (SH41.5) is equal to 27, 27, 29, or 90, even at least one Exhaust Standard for the test procedure (SH42) is required. |
| SI-58 | Exhaust Deterioration Factor Type | deterioration factor type for this exhaust standard name. If this is an NMOG standard, is the | mentalInformationDetai ls/ExhaustEmissionSt andardDetails SupplementalInformati onSubmission/Supple mentalInformationDetai | er | TRUE | unique set of exhaust standard/DF info. 1_1 for each unique set of | A(4) | Enumeration | | | | | | | MFRD = Mfr. Determined AGED = Aged components installed In the emission data vehicle | Light Duty | Confirmatory Test | t | Manufa turer | c Front End | XML | LD-CFT-SI-BR018 | SHBR18: If a Test Procedure Code Selected for EPA Confirmatory Testing (SH11.5) is equal to 2; "2; 21,"25, or '90, then at least one Exhaust Standard for the test procedure (SH92) is required. |
| SI-58.5 | Using NMOG/NMHC Ratio? | NMOG/NMHC ratio being used? If applicable, enter the value for the NMOG/NMHC ratio for this exhaust standard | Is/ExhaustEmissionsSt andardDetails SupplementalInformati onSubmission/Supple mentalInformationDetai Is/ErhaustEmissionsSt | RatioIndicator | FALSE | standard/DF info. | A(1) | Enumeration | | | | | | | Y = Yes N = No | Light Duty | Confirmatory Test | t | Manufa turer Manufa | c Front End | XML. | LD-CFT-SI-BR018 | SHBR18: II:a Test Procedum Code Selected for EPAConfirmatory Testing (BL41.6) is equal to 2: 37. 217. 25. or '90', then at least one Exhaust Standard for the test procedure (SH22) is required. SHBR18: II:a Test Procedum Code Selected for EPAConfirmatory Testing (SL41.6) is equal to 2: |
| SI-58.6 SI-63 | Ratio of NMOG/NMHC | name. If applicable, enter the additive deterioriation factor (DF) value for this exhaust standard | andardDetails SupplementalInformati onSubmission/Supple mentalInformationDetai Is/ExhaustEmissionSSt andardDetails | RatioValue AdditiveDeterior ationFactorValu | FALSE | standard/DF info. | N(3,2) | Decimal | | | 3 | 2 | 0.00 | 9.99 | | Light Duty | Confirmatory Test | | turer Manufa | End c Front End | XML | LD-CFT-SI-BR018 SI-BR7 LD-CFT-SI-BR018 | 37, 217, 257, or 907, then at least one. Enhaust Standard for the test procedure (Si-92) is required. SI-BR7. Availue can ather be entered for additive or multiplication, but not both. SI-BR18: Is a Test Procedure Code Selected for EPA Confirmatory Testing (Si-1.5) is equal to 27 72, 173, 507, 607, 104 han at least one Enhaust Standard for the test procedure (Si-92) is required. |
| SI-64 | Multiplicative DF | If applicable, enter the multiplicative deterioriation factor (DF) value for this exhaust standard name. | SupplementalInformati onSubmission/Supple mentalInformationDetai Is/ExhaustEmissionSt | MultiplicativeDet eriorationFactor Value | FALSE | 11 for each unique set of exhaust standard/DF info. | N(4,3) | Decimal | | | 4 | 3 | 1 | 9.999 | | Light Duty | Confirmatory Test | t | Manufa | c Front End | XML | CI-BR7 LD-CFT-SI-BR018 | 11-117. A value can effect be entered for addition or multiplication, but notices 11-1187. A value can effect be entered for addition or multiplication, but notices 11-1187. The Test Procedure Code Selected for EPAC confirmatory Testing (S1-41.5) is equal to 2 12.1.2.3.2.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 |
| SI-93 | Upward Diesel Adjustment Factor | If applicable, enter the upward diesel adjustment factor value for this exhaust standard name. | e Supplementalinformati onSubmission/Supple mentalinformationDetai Is/ExhaustEmissionsSt andardDetails | UpwardDieselA djustmentFacto rValue | FALSE | 11 for each unique set of exhaust standard/DF info. | N(7,6) | Decimal | | | 7 | 6 -9 | .999999 9 | 9.999999 | | Light Duty | ConfirmatoryTest | t . | Manufa turer | c Front End | XML. | LD-CFT-SI-BR008 LD-CFT-SI-BR018 | SI-BR8: If Fuel (SI-66.5) is equal to D' (Diesel), then Upward Diesel Adjustment Factor (SI-33) is required. SI-BR116: If a Test Procedum: Code Selected for EPA Confirmatory Testing (SI-41.5) is equal to 2 2, 21, 25, or 90; then at least one Exhaust Standard for the test procedure (SI-92) is required. |
| SI-94 | Downward Diesel Adjustment Factor | If applicable, enter the downward diesel adjustment factor value for this exhaust standard name. | | DownwardDies elAdjustmentFa ctorValue | FALSE | 1_1 for each unique set of exhaust standard/DF info. | N(7,6) | Decimal | | | 7 | 6 -9 | 999999 9 | 9.999999 | | Light Duty | Confirmatory Test | t | Manufa turer | c Front End | XML. | LD-CFT-SI-BR009 | SHBR#. IF Fuel (SH56.5) is equal to 'D' (Diesel), then Downward Diesel Adjustment Factor (SH94) is required. SHBR18: II. TestPhocedure Code Selected for EPA Confirmatory Testing (SH15.) is equal to '2 ', 2'1, '25', or '90', then at least one Exhaust Standard for the test procedure (SH21.) is required. |
| SI-65 | Reactivity Factor (RAF) | If applicable, enter the reactivity factor for this exhaust standard name. Enter any additional | | ReactivityFactor Value | FALSE | 1_1 for each unique set of exhaust standard/DF info. | N(5) | Integer | | | | | 0 | 99,999 | | Light Duty | Confirmatory Test | use for NMOG, Methane. Note: for Tier 2 (Bin 1-11) emissions it will be t defaulted to 1.0 for NMOG and 0.0 for Methane | Manufa turer | c Front End | XML. | LD-CFT-SI-BR018 | SI-BR 18: If a Test Procedure Code Selected for EPA Confirmatory Testing (SI-41.5) is equal to 2 3', 21', 25', or 90', then at least one Exhaust Standard for the test procedure (SI-92) is required. |
| SI-67 | Exhaust/Evaporative Emission Standard Comments Evaporative and Refueling I | comments for the exhaust or evaporative standards for this test vehicle. | SupplementalInformati onSubmission/Supple mentalInformationDetai Is | EmissionsStan dardCommentT ext Each Certified R | FALSE | 1 per test vehicle configuration | A(1000) | String | 1 1 | 1000 | | | | | | Light Duty | Confirmatory Test | t Data type exists | Manufa turer | c Front End | XML | LD-CFT-SI-BR018 SI-BR19 | SHB11E is a Test Procedure Code Selected for EPA Confirmatory Testing (SH 1.5) is equal to 32.512 and 32.522 (SH 2.5) are a factor of Edward Selected for the test procedure (SH 21) is trajented. The test processor (SH 21) is trajented at the test processor (SH 21) is trajented |
| \$1-95 | Evaporative/Refueling Family Name | The exportive/reducting tamly that was entered on the original Confirmatory Test Decision Information IoF-8 will be picked up by Venity on the back- end. | Supplementalinformati onSubmission/Supple mentalinformationDeat intErPAGeneratedSuppl ementalinErPAGeneratedSup porate@missionCertiti cationt_em01batis | EvaporativeRef uelingFamilyNa me | FALSE | Test Group + Evap Family+ Evap Certification Region Code + Certification/InUs e Code + Evap Emission Standard Level + Fuel + Test Procedure + Usaful Life + Emission Name identifies a unique setof evap standard/DF info. 0.n | A(12) | String | 12 | 12 | | | | | | Light Duty | Confirmatory Test | The expositive interval of the should be public in from the Cardina and your should be back-are (0.14). | Verify | Back End | Assigne d | LD-CFT-SI-BR019 | S1-8819: If a Test Procedum Code Selected for EPAC onfirmatory Testing (S-41 &) is equal to 27 or 27, then at least one ExeparativeReleting Bandard for the Test Procedure (S-98) is required. |

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| EPA Data element | | | | | | | Basic Data D. | sta Type | Min Ma | ax | Total Fr | action | | | | | | | Origina | Collecti | Collecti | | |
|---------------------|---|--|---|---|------------------------|---|------------------|-------------|------------|--|-----------|------------|---------|------------|---|-----------------------|-------------------|--|------------------|----------------|--------------|--|--|
| number | Long Name ry Test Supplemental Infor | Description mation | Parent's Name | XML Tag | Required | Multiplicity | Type De | scription L | Length Len | gth Pattern | Digits al | Digits Min | Value N | /lax Value | Alowed Values | Industry | Process | Notes/Questions | 10 | on Point | on Type | Applicable Business Rules | Validation Rules |
| SI-72 | Useful Life Mileage | Select the applicable useful life mileage for this exportative standard. | SupplementalInformati onSubmission?SupplementalInformationDeta IstEvaporativeEmission SatandardDetails | Useful LifeMilea geldentifier | Er F C S | Test Group + Evap Family + wap Certification Region Code + ertification/InUs e Code + Evap Emission tandard Lovel + Fuel + Test Procedure + Useful Life + mission Name Useful Life + mission Name identifies a unique setof evap tandard/DF info. 0.n | N(3) Ели | meration | | | | | | | 4 – 4,000 miles 50 – 500,000 miles 100,000 miles 190 – 150,000 miles | Light Duty | Confirmatory Test | | Manufai turer | : Front End | XML | LD-CFT-SHBR019 | S18819: III a Test Procedure Code Selected for EPA Confirmatory Testing (S-H 5) is equal to 27 or 27, then alkast one Exaporative/Retueling Standard for the Test Procedure (S-98) is required. |
| SI-71 | Test ResultEntation Nam | e evaporative standard. | Supplemental informati onSubmissionObjection InFormative Emission Salandard Deals | TesResulident | En F C S E | Test Group + Evap Family + ap Certification Region Code + Eraision Amadad Level + Foel + Test Procedure + Usebil Life + mission Name identifies a unique setod evap andardDF info. 0.n | A(16) Enc | meration | | | | | | | Bit Share (Construction) Construction Constonstruction Construction Co | s t- Light Duty | Confirmatory Test | CREE and Ops-CREE are not valid values fore since IPs and Standards will not be submitted f tem. | er Manufa | : Front End | XML | LD-CFT-58-88019 ID-CFT-58-88021 ID-CFT-58-88021 LD-CFT-58-88021 LD-CFT-58-88021 LD-CFT-58-88021 LD-CFT-58-88021 LD-CFT-58-88021 LD-CFT-58-880219 LD-CFT-58-8802 | SLBB19: IIIs Test Procedure Code Selected for EPA Confirmatory Testing (S-H15) is equal to 27 or 27, hen at least one Ecoporative/Retueling Standard for the Test Procedure (S-B8) is required. SLB211: If the Ecoporative Standard Test Procedure (SLBB1) is an ORVR (24 or 44) or for Intening SLB211: An Ecoporative Test ResultEmission Name (SJ-71) or MC-TOTAL is not allowed SLBB22: An Ecoporative Test ResultEmission Name (SJ-71) or MC-TOTAL is not allowed SLBB22: An Ecoporative Test ResultEmission Name (SJ-71) or MC-TOTAL is not allowed SLBB22: An Ecoporative Test ResultEmission Name (SJ-71) or MC-TOTAL is not allowed for ORNE 27) tests: CH2 = Code (SLBB2) and SJ 44 of A1 Naming Loss TEst Honoraum (SLBB2) and 27) tests: CH2 = Code (SLBB2) and SLB 44 of A1 Name (SLB1). |
| SI-74 | Evaporative Emission Standard Value | This is a system- generated numeric field based on converting the text value entered by the manufacturer for "Evaporative Emission Standard Value (Text)" (SI-76). | SupplementalInformati onSubmission/Supple mentalInformationDeta Is/EPAGeneratedSuppl ails/EPAGeneratedEva porativeEmissionCettif cationLevelDetails | ssionsStandard | TRUE st | 11 for each unique set of evap tandard/DF info. | N(7,4) E | lecimal | | ([0- | 7 | 4 01 | 0000 9 | 999.9999 | | Light Duty | Confirmatory Test | | Verify | Back End | Assigne d | LD-CFT-SI-BR019 | S188115-11 a Test Procedure Code Solvers for ESN Confirmancy Testing (S-41.5) is result to 25 for 27 from all least toric Desponation Relativiting Standard for the Test Procedure (S-98) is required. |
| SI-75 | Evaporative Emission Standard Value (Text) | Enter the applicable numeric value for this evaporative standard name including any additional digits that are necessary for proper rounding. | SupplementalInformati onSubmission/Supple mentalInformationDeta Is/EvaporativeEmission sStandardDetails | | | 11 for each unique set of evap landard/DF info. | A(8) | String | 1 8 | 9](1,3)[(.][0- 9)[1,4))[([\][0- 9][1,4))[([0- 9][1,3)[(8]?) | | | | | | Light Duty | Confirmatory Test | | Manufa tuer | Front End | XML | LD-CFT-SI-BR019 | SHBR19: If a Test Procedure Code Selected for EPA Confirmatory Testing (S-41.5) is equal to 22 or 27, then at least one Evaporative/Refueling Standard for the Test Procedure (S-98) is required. |
| SI-73 | Evaporative Deterioration Factor Type | Select the applicable deterioration factor type for this evaporative standard. | SupplementalInformati onSubmission/Supple mentalInformationDeta Is/EvaporativeEmission sStandardDetails | DeteriorationFa ctorTypeldentifi er | | 1_1 for each unique set of evap tandard/DF info. | A(4) Enc | meration | | | | | | | MFRA – MF: Assigned EPAA – EPA Assigned MFRD – MF: Determined AGED – Aged components installed In the emission data vehicle | Light Duty | Confirmatory Test | | Manufa turer | Front End | XML | LD-CFT-SI-BR019 | SI&B19: If a Test Procedure Code Selected for EPAConfirmatory Testing (S-41.5) is equal to 22 or 27, then at least one Exeporative/Refueling Standard for the Test Procedure (S-88) is required. |
| SI-76 | Additive DF | Enter the additive deterioriation factor (DF) value for this evaporative standard name. | SupplementalInformati onSubmission/Supple mentalInformationDeta Is/EvaporativeEmission sStandardDetails | AdditiveDeterior ationFactorValu e | | 11 for each unique set of evap tandard/DF info. | N(7.6) E | lecimal | | | 7 | 6 | 0 9 | 3.999999 | | Light Duty | Confirmatory Test | Note- Evaporative DFs are only additive, not multiplicative. | Manufa | Front End | XML | LD-CFT-SI-BR019 | BIBD19. If a Trait Procedum Code Selected for EPJI Confirmatory Testing (S-H 5) is equal to 27 or 27.4 m a literatione EnergonatesReturling Standard for the Test Procedure (S-98) is required. |

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420d11003.xls SI+

| Pink = TBD | Orange = Changes Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Mis Text Edit | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | |
|--|---|---|--|---|----------|------------------|-----------------------------|------------------------------|----------|---------------------------|----------------|--------------------------------|----------|--|------------|---------------|-----------------|-----------|---|--|---|
| EPA Data element number Carline In | Long Name | Description | Parent's Na | ame XML T | ag R | equired Multipli | Basic Data icity Type | c L Data Typ Descripti | on Lenat | h <u>Max</u> th Length | Pattern Dioits | Fractional Digits Min Value | Max Valu | e Allowed Values | Industry | Process | Notes/Questions | Originato | Collectio Delinit Delinit Delinit Delinit | C Applicable Business Rules | Validation Rules |
| | Process Code | Select the desired process code for the current submission | CarlineSub sion/Carline ormationDe | eInf | rocessCo | TRUE | A(1) | Enumerati | 00 1 | 1 | | | | N = New dataset C = Correction of existing Verify | Light-Duty | Certification | | Manufactu | Front Frd XM | | |
| 02.0.0 | | | 5 | | | IIIUL | | Endineral | | | | | | | Light Doty | Certification | | manaratea | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | CL-BR1: Manufacturer Code (CL-1) must exist in the system. CL-BR2: If Process Code (L-0.5) equals C' (Correction) or R' (Report), then a record must already exist in the system with the same Model Year (CL-2), Division Code (CL-3), Carline Code (CL-4), and Manufacturer Code (CL-1). CL-BR2: If Process Code (CL-5) equals Y (New), then a record must not exist in the system for that Model Year (CL-2), Division Code (CL-3), Carline Code (CL-4), and Manufacturer Code (CL-1). |
| | | | | | | | | | | | | | | | | | | | | | Manufacturer Code (CL-1). CL-BR2: If the Process Code (CL-0.5) is equal to 'R' (Report), the Manufacturer Code of the Submission Autor Details must match the Manufacturer Code (CL-1) of the dataset for which the report was requested. |
| | | The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be | CarlineSub sion/Carline | mis | | | | | | | | | | | | | | | | LD-CERT-CL-BR001 LD-CERT-CL-BR002a LD-CERT-CL-BR002b LD-CERT-CL-BR009 | CL-BR10: If the Process Code (CL-0.5) is equal to 'N (New) or 'C' (correction) then the Manfacturer Code of the Submission Author Details must match the Manufacturer Code (CL- 1) of the submitted dataset. CL-BR12: If this is a Batch Data set then for each Carline with Process Code (CL-0.5) equals |
| <u>CL-1</u> | Manufacturer Code | derived from user's CDX user account | ormationDe s | e e | turerCod | TRUE | A(3) | Fixed strin | g 3 | 3 | [A-Z0-9]{3} | | | | Light Duty | Certification | | Manufactu | er End XM | LD-CERT-CL-BR010 LD-CERT-CL-BR012 | N' (New) the Carline Code (CL-3), Manufacturer Code (CL-1), Division Code (CL-3) and Model Year (CL-2) must be unique. CL-BR2: If Process Code (CL-0.5) equals 'C' (Correction) or 'R' (Report), then a record |
| | | | | | | | | | | | | | | | | | | | | | must already exist in the system with the same Model Year (CL-2), Division Code (CL-3), Carline Code (CL-4), and Manufacturer Code (CL-1). CL-BR4: If Process Code (CL-0.5) equals 'N' (New) then the Carline Code (CL-4) must |
| | Model Year | Enter the applicable model | CarlineSub sion/Carline ormationDe | eInf | | TRUE | | | | | | | 2100 | | | Certification | | Manufactu | Front er End XM | LD-CERT-CL-BR002a LD-CERT-CL-BR002b LD-CERT-CL-BR004 LD-CERT-CL-BR012 | not exist in the system for that Manufacturer Code (CL-1) and Division Code (CL-3) and Model Year (CL-2). CL-BR12: If this is a Batch Data set then for each Carline with Process Code (CL-0.5) equals N (New) the Carline Code (CL-4), Manufacturer Code (CL-1), Division Code (CL-3) and |
| <u>CL-2</u> | Model Year | year for this test group. | s | ModelYear | | TRUE | N(4) | Integer | | | | 1957 | 2100 | | Light Duty | Certification | | Manufactu | er End XM | LD-CERT-CL-BR012 | Model Year (CL-2) must be unique. CL-BR2: If Process Code (CL-0.5) equals 'C' (Correction) or 'R' (Report), then a record |
| | | | | | | | | | | | | | | | | | | | | | must already exist in the system with the same Model Year (CL-2), Division Code (CL-3), Carline Code (CL-4), and Manufacturer Code (CL-1). CL-BR3: For any sumission, the Division Code (CL-3) must already exist in the system. |
| | | | CarlineSub | mis | | | | | | | | | | | | | | | | LD-CERT-CL-BR002a LD-CERT-CL-BR002b LD- | CL-BR4: If Process Code (CL-0.5) equals 'N' (New) then the Carline Code (CL-4) must not exist in the system for that Manufacturer Code (CL-1) and Division Code (CL-3) and Model Year (CL-2). |
| <u>CL-3</u> | Division Code | Enter the applicable division for this carline. | sion/Carline ormationDe s | | Division | TRUE | N(2) | Integer | | | | 1 | 99 | | Light Duty | Certification | | Manufactu | Front End XM | CERT-CL-BR003 LD-CERT-CL-BR004 LD-CERT-CL-BR012 | CL-BR12: If this is a Batch Data set then for each Carline with Process Code (CL-0.5) equals N [*] (New) the Carline Code (CL-4), Manufacturer Code (CL-1), Division Code (CL-3) and Model Year (CL-2) must be unique. |
| | | | | | | | | | | | | | | | | | | | | | CL-BR2: If Process Code (CL-0.5) equals 'C' (Correction) or 'R' (Report), then a record must already exist in the system with the same Model Year (CL-2), Division Code (CL-3), Carline Code (CL-4), and Manufacturer Code (CL-1). |
| | | | | | | | | | | | | | | | | | | | | | CL-BR4: If Process Code (CL-0.5) equals 'N' (New), then a record must not exist in the system for that Model Year (CL-2), Division Code (CL-3), Carline Code (CL-4), and Manufacture Code (CL-1). CL-BR11: If the Process Code (CL-0.5) is 'C' (correction) then there cannot be any locked |
| | | Enter the applicable carline code (assigned by the manufacturer) for this | CarlineSub sion/Carline ormationDe | elnf itail | | | | | | | | | | | | | | | Front | LD-CERT-CL-BR002a LD-CERT-CL-BR002b LD-CERT-CL-BR004 | and active Certificate Summary Information Reorts (CSIs) which reference this Carline Code (CL-4). CL-Br12: If this is a Batch Data set then for each Carline with Process Code (CL-0,5) equals N (New) the Carline Code (CL-4), Manufacturer Code (CL-1), Division Code (CL-3) and |
| <u>CL-4</u> | Car Line Code | carline. | s | CarlineCode | | TRUE | N(3) | Integer | | | | 1 | 999 | | Light Duty | Certification | | Manufactu | er End XM | LD-CERT-CL-BR012 | Model Year (CL-2) must be unique. NEW: If FE Label Carline Class Code is 2 (Minicompact Cars) then the sum of Average Passenger Volume (CL-3) and Average Luggage Volume (CL-10) rounded to a whole number must be less than 85. |
| | | | | | | | | | | | | | | | | | | | | NEW: LD-CERT-CL-BR013 | must be less than 85. NEW: IF FE Label Carline Class Code is 3 (Subcompact Carl) then the sum of Average Passenger Volume (CL-9) and Average Luggage Volume (CL-10) rounded to a whole number must be greater than or equal to 65 and less than 100. |
| | | | | | | | | | | | | | | 1 = Two-Seaters 2 = Minicompact Cars 3 = Subcompact Cars 4 = Compact Cars 5 = Midiciae Cars | | | | | | NEW: LD-CERT-CL-BR014 | NEW: II F Label Carline Class Code is 4 (Compact Cars) then the sum of Average Passenger Volume (CL-9) and Average Luggage Volume (CL-10) rounded to a whole number must be greater than or equal to 100 and less than 110. |
| | | | | | | | | | | | | | | 5 = Midsize Cars 6 = Large Cars 7 = Small Station Wagons 8 = Midsize Station Wagons 9 = Large Station Wagons 10 = Small Pickup Trucks 2WD | | | | | | NEW: LD-CERT-CL-BR015 | NEW: If FE Label Carline Class Code is 5 (Midsize Cars) then the sum of Average Passenger Volume (CL-9) and Average Luggage Volume (CL-10) rounded to a whole number must be greater than or equal to 110 and less than 120. |
| | | | | | | | | | | | | | | 11 = Small Pickup Trucks 4WD 12 = Standard Pickup Trucks 2WD 13 = Standard Pickup Trucks 4WD | | | | | | NEW: LD-CERT-CL-BR017 | NEW: If FE Label Carline Class Code is 6 (Large Cars) then the sum of Average Passenger Volume (CL-9) and Average Luggage Volume (CL-10) rounded to a whole number must be greater than or equal to 120. |
| | | | | | | | | | | | | | | 14 = Vans, Cargo Type 15 = Vans, Passenger Type 17 = Special Purpose Vehicle 2WD 18 = Special Purpose Vehicle 4WD 19 = Special Purpose Vehicle Cab | | | | | | NEW: LD-CERT-CL-BR018 | NEW: If FE Label Carline Class Code is 7 (Small Station Wagons) then the sum of Average Passenger Volume (CL-8) and Average Luggage Volume (CL-10) rounded to a whole number must be less than 130. NEW: IF EF Label Carline Class Code is 8 (Mildrine Station Wagons) than the sum of Average |
| | | Enter the applicable class code for this carline using | sion/Carline | einf | | | | | | | | | | Chassis 20 = Minivan 2WD 21 = Minivan 4WD 22 = SUV 2WD | | | | | | NEW: LD-CERT-CL-BR019 | NEW: If FE Label Carline Class Code is 8 (Midsize Station Wagons) then the sum of Average Passenger Volume (CL-8) and Average Luggage Volume (CL-10) rounded to a whole number must be greater than or equal to 13 and less than 16 d. NEW: If FE Label Carline Class Code is 9 (Large Station Wagons) then the sum of Average |
| CL-5 | FE Label Carline Class Code | EPA's FE Label classifications. | ormationDe s | tail CarlineClass | Code | TRUE | N(2) | Enumerati | on | | | | | 23 = SUV 4WD 24 = Electric Vehicles | Light Duty | Certification | | Manufactu | Front er End XM | | NEW: If FE Label Carline Class Code is 9 (Large Station Wagons) then the sum of Average Passenger Volume (CL-9) and Average Luggage Volume (CL-10) rounded to a whole number must be greater than or equal to 160. |

| EPA Data element number Long Nam Carline Information | e Description | Parent's Name | XML Tag | Required | Basi Dati Multiplicity Typ | c <u>Data Typ</u> Descriptio | <u>on Length L</u> | Max ength Patte | tern Digits | Tractional Digits N | Min Value I | Max Value | Allowed Values | Industry | Process | Notes/Questions | <u>Originator</u> | Collectio n Point | Collec tion Type | Applicable Business Rules | Validation Rules |
|--|--|---|-------------------------------------|----------|----------------------------------|------------------------------------|--------------------|--------------------|-------------|------------------------|-------------|-----------|---|------------|---------------|-----------------|-------------------|----------------------|------------------------|--|---|
| CL-6 Full Carline Nar | Enter the full carline name for this carline. | 8 | FullCarlineName | TRUE | A(50 | Normalized string | d 1 | 50 | | | | | | Light Duty | Certification | | Manufacturer | Front | XML | | |
| Average Passe CL-0 Volume | Enter the average | CarlineSubmis sion/CarlineInf ormationDetail s/VehicleVolum eMeasureDetai | AveragePassengerVo lumeMeasure | FALSE | N(6. |)) Decimal | | | 6 | 3 | 0 | 999.999 | | | Certification | | Manufacturer | Front End | XML | | 1-BRC (14s) Class Close (10-4) inclusiti 7 Minik Company), 37 (Matics Charmony, 147 (Company), 57 (Matics), 57 (Matics), 57 (Matics) Class Material Material Company, 17 (Matics Class Material Material Class Material Class Class 12 (Matics), 57 (Matics), 58 (Material), 58 (Material) |
| Average Luggg CL-10 Volume | e Enter the average luggage volume (in cubic feet). | CarlineSubmis sion/CarlineInf ormationDetail s/VehicleVetail Is | AverageLuggageVolu meMeasure | FALSE | N(5.5 | 3) Decimal | | | 5 | 3 | 0 | 99.999 | | Light Duty | Certification | | Manufacturer | Front | XML | LD-CERT-CL-88005 NEW: LD-CERT-CL-88013 NEW: LD-CERT-CL-88014 NEW: LD-CERT-CL-88017 NEW: LD-CERT-CL-88017 NEW: LD-CERT-CL-88019 NEW: LD-CERT-CL-88019 | CL-BHS: 11 THE CLBB COB (LCLS) equals 2 (Mini Compiler), 3 (GubCompact), 4 (Compact), 5 (Mickairo, 9 (Karge), 7 (Karall Station Wagon), 8 (Mickize Station Wagon), (Partage passenger Volume (LCL3) and Average Luggae Volume (LCL-10) processes Label Cartine Class Code is 2 (Mini Compact, 2 Mini Cart), 10 pre is es- table Cartine Class Code is 2 (Mini Compact, 2 Mini Class), 10 pre is Label Cartine Class Code is 2 (Mini Compact, 2 Mini Class), 10 pre is Label Cartine Class Code is 2 (Mini Compact, 2 Mini Class), 10 pre is Label Cartine Class Code is 2 (Mini Compact, 2 Mini Class), 10 pre is Label Cartine Class Code is 2 (Mini Compact, 2 Mini Class), 10 pre is NEW CL-BR014: IF E Label Cartine Class Code is 3 (Subcompact Cart) then the sum of Average Passenger Volume (CL-3) and Average Luggage Volume (CL-10) rounded to a volice number must be greater than or equal to 10 and less than 10. NEW CL-BR014: IF E Label Cartine Class Code is 5 (Mickize Cars) then the sum of Average Passenger Volume (CL-3) and Average Luggage Volume (CL-10) rounded to a volice number must be greater than or equal to 10 and less than 10. NEW CL-BR015: IF E Label Cartine Class Code is 10 (Mickize Cars) then the sum of Average Passenger Volume (CL-3) and Average Luggaey Volume (CL-10) rounded to a volice number must be greater than or equal to 10 and less than 120. Nerrage Passenger Volume (CL-3) and Average Luggaey Volume (CL-10) rounded o a volice number must be greater than or equal to 10 and less than 120. Nerrage Passenger Volume (CL-3) and Average Luggaey Volume (CL-10) rounded o a volice number must be greater than or equal to 10 and less than 120. Nerrage Passenger Volume (CL-3) and Average Luggaey Volume (CL-10) rounded to a volice number must be greater than or equal to 10 and less than 120. |
| 2-Door Passeng CL-11 volume | Enter the 2-door er passenger volume (in cubic feet). | CarlineSubmis sion/CarlineInf ormationDetail s/VehicleVolum eMeasureDetai Is | TwoDoorPassengerV olumeMeasure | FALSE | N(3) | Integer | | | | | 0 | 200 | | Light Duty | Certification | | Manufacturer | Front End | XMI | | |
| 2-Door Luggag | | CarlineSubmis sion/CarlineInf ormationDetail s/VehicleVolum eMeasureDetai | TwoDoorLuggageVol umeMeasure | FALSE | | | | | | | | 60 | | | | | Manufacturer | Front End | XMI | CL RRG | CL-BR6: II. Two-Door Passenger Volume. (CL-11) is entered then Two-Door Luggage Volume |
| CL-12 volume 4-Door Passeng CL-13 volume | Enter the 4-door | CarlineSubmis sion/CarlineInf ormationDetail s/VehicleVolum eMeasureDetai | FourDoorPassengerV olumeMeasure | FALSE | | Integer | | | | | 0 | 200 | | | Certification | | Manufacturer | Front | | UL BRO | |
| 4-Door Luggag CL-14 volume | Enter the 4-door luggage volume (in cubic feet). | CarlineSubmis sion/CarlineInf ormationDetail s/VehicleVolum eMeasureDetai Is | FourDoorLuggageVol umeMeasure | FALSE | N(2) | Integer | | | | | 0 | 60 | | Light Duty | Certification | | Manufacturer | Front End | XML | CI BR7 | GL-BR?- If Four Door Passenger Volume (GL-13) is entered then Four Door Luggage— Volume (CL-14) is required, |
| Hatchback CL-15 Passenger volu | Enter the hatchback passenger volume (in ne cubic feet). | ls | HatchbackPassenger VolumeMeasure | FALSE | N(3) | Integer | | | | | 0 | 200 | | Light Duty | Certification | | Manufacturer | Front End | XML | | |
| Hatchback Lug CL-16 volume | Enter the hatchback lage luggage volume (in cubic feet). | ls | HatchbackLuggage#V olumeMeasure | FALSE | N(2) | Integer | | | | | 0 | 60 | | Light Duty | Certification | | Manufacturer | Front End | XML | CI BR8 | CH-BR8: H Hatchback Passanger Volume (CL-15 is entered then Hatchback Luggage- Volume (CL-16) is required). |
| Sales Restrictio | Select the applicable sales restriction code for this carline. | ormationDetail | SalesRestrictionCode | FALSE | A(2) | Enumeratio | on | | | | | | TR=US Territories PO=US Postal Service | Light Duty | Certification | | Manufacturer | Front End | XML | | |

| Pink = TBD | Orange = Changes Due To New Technologies | | Red = Misc Text Edits | Blue = Misc Certification | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|---|--|---|----------|------------------------------------|-----------------------|---------------------------------------|---------------|---------------|--|------------------------------------|------------------------|---|-------------------|---|---|----------------------------------|-------------------------|---|------------|--|
| EPA Data Element Number | Long Name | Green = Label/CAFE/GHG Changes | Parent's Name | Changes XML Tag | Required | Multiplicity | Basic Data Type | Data Type Description | Min Length | Max Length | Pattern | Total Fraction Digits al Digits | Min Max Value Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Collect ion Point | Collect Ion Type Applicable Business | Rules | Validation Rules |
| | ve Family Information | | | | | | | | | | | | | N = New dataset | | | | | | | | |
| EV-0.5 | Process Code | Select the desired process code for the current submission. | EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails | Information Process Code | TRUE | | A(1) | Enumeration | 1 | 1 | | | | C = Correction of existing Verify dataset D = Delete existing Verify dataset R = Request Report for an existing Verify dataset | y Light- Duty | Certificati on | | Manufacturer | Front End | XML | | |
| EV-19 | Manufacturer Code | The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX water account | EvaporativeFamilySubmissio rr/EvaporativeFamilyInformati onDetails | EPAManufacturerC ode | TRUE | Once per evaporative family. | A(3) | String | 3 | 3 | [A-Z0-9](3) | | | | Light 0 Duty 0 | Certificati | | Verify | Front End | LD-CERT-EV-BR LD-CERT-EV-BR LD-CERT-EV-BR XML LD-CERT-EV-BR | 011 | EV-BR2: If the Process Code (EV-0.5) is equal to 1% (Report), the Manufacturer Code of the Submission Author Details must match the Manufacturer Code (EV-19) of the dataset for which the report was requested. EV-BR11: If the Process Code (EV-0.5) is equal to 1% (New) or IC (Correction) the Manufacturer Code of the Submission Author Code (EV-15) of the dataset of the Submission Author Code (EV-15) of the authoritied dataset. EV-BR12: Manufacturer Code (EV-19) must exist in the system. |
| EV-1 | Evap/Refueling Family Name | Enter the applicable evaporativerfueling name for this dataset. | EvaporativeFanilySubmissio n/EvaporativeFanilyMormati onDetails | EvaporativeRefueli ngFamilyName | TRUE | | A(12) | Fixed string | 12 | 12 | [A-HJ-NPR- TV-Y1- 9](1)[A-2D- 9](4](A-2D- 9](3)[3] | | | | Light to Duty | Certificati | | Manufacturer | Front End | LD-CERT-EV-BROOTa LL BROOTb LD-CERT-EV-BR LD-CERT-EV-BR XML LD-CERT-EV-BR | 002 003 | EV-BR1: If Process Code (EV-0.5) is equal to C' (Correction) or R' (Report) then a record must already exit in the system with Vear (EV-1.5). EV-BR2: The Manufacturer Code embedded in the Exaporative Returbing Family Name (EV-1) must match the Submitter's Manufacturer Code (in Submission Author Details). EV-RR3: The califiest evolving capacity embedded in the Evaporative Returbing Family Name (EV-1) must match the Submitter's Manufacturer Code (in Submission Author Details). EV-RR3: The Califiest evolving capacity embedded in the Evaporative Returbing Family Net/-1) must be a valid number. EV-RR3: Exaporative Returbing embedded in the Evaporative Returbing Family EV-1) must be a valid in EV-RR3: The Suporative Summary Information (EVSI) Type (EV-2) quals N (NeuroReturbing Family Name (EV-1) and Model Vear (EV-1.5). EV-RR3: If the Process Code (EV-0.5) is C' (Correction) then there cannot be any locked and active Centificate Summary Family Name (EV-1) |
| EV-1.5 | Model Year | Enter the applicable model year for this evaporative family. | EvaporativeFamilySubmissio | ModelYear | TRUE | Once per evaporative family. | N(4) | Year type (1970-2100) | | | | | 1957 2100 | | | Certificati | | Manufacturer | Front | LD-CERT-EV-BRG LD-CERT-EV-BRG XML LD-CERT-EV-BR | 01b | EV-BR1: If Process Code (EV-0.5) is equal to C' (Correction) or R' (Report) then a record must already exist in the system with the came Evaporative/Retueling Tranty Name (EV-1) and Model Yaar (EV-15). EV-BR2: If Evaporative Summary Information (EVSI) Type (EV-2) equals N (New Ine a record must not exist in the system for this EvaporativeRetueling Family Name (EV-1) and Model Year (EV-15). |
| | | Enter the applicable type for this set of certification information: New, Update for Correction, or Update for Running | EvaporativeFamilySubmissio n/EvaporativeFamilyInformati | SummaryTypeldent | | | | | | | | | | N= New, U= Update for correction | Light | Certificati | | | Front | | | |
| | Evaporative Summary Information (EVSI) Type | Change. Is the ORVR system for this evaporative/refueling family integrated | onDetails EvaporativeFamilySubmissio n/EvaporativeFamilyInformati | ifier IntegratedORVRInd | TRUE | | A(1) | Enumeration | | | | | | R= Update for Running change Y = Yes | Duty (| on Certificati | | Manufacturer | End Front End | XML | | refer to other industry rules for this field |
| EV-3 NEW: EV-3.5 | Integrated ORVR | with the evaporative system? | onDetails Evaporative FamilySubmis sion/Evaporative FamilyMrf ormationDetails | Fuelidentifier | TRUE | 1n per Evaporativ e Family | A(1) | Enumeration n | | | | | | N = No G - Gasoline D - Diesel M - Methanol CNG - Compressed Natural Gas Liguifier Natural Gas HDG - Liguifier Natural Gas H - Hydrogen H - Hydrogen H - Hydrogen H - Hydrogen | Light- Duty | Certificat a ion | The 'HYD' value is not accepted for this dataset. | Manufacturer Manufacture r | Front end | XML NEW: LD-CERT-EV-BR014 EV-BR01 XML V4-BR11 | LD-CERT- | NEW: One of the Fuel(s) (EV-3.5) selected must be "Gasoline" (G), "Methanol" (M), "Ethanol" (E), (LNG), or "Liquified Petroleum Gas" (LPG). "MAIs not a valid value for Fuel.1. It is only valid for Fuel 2. |
| NEW EV-3.6 | Multiple Fuel Storage- Separate or Together | If multiple fuels are selected for Fuel(s), are the fuels stored separately or together? | EvaporativeFamilySubmis sion/EvaporativeFamilyInf ormationDetails | MultipleFuelStor ageMethodIdenti fier | FALSE | 1 per test group | A(8) | Enumeratio n | | | | | | S - Fuels Stored Separately T - Fuels Stored Together | Light- Duty | Certificat ion | | Manufacture r | Front end | XML NEW: LD-CERT-EV- | BR015 | NEW: If more than one fuel is selected for Fuel(s) (EV-3.5), then Multiple Fuel Storage- Separate or Together (EV-3.6) is required, otherwise it is not allowed. |
| EV-4 | - Fuel-1 | Enter the first fust-type for this- evaporative/refueling-family. | EvaporativeFamilySubmis sion/EvaporativeFamilyInf ermationDetails | Fuel11dentifier | TRUE | | A(3) | Enumeratio P | | | | | | C Caseline O Trisoti M Michanol E Sthorol CNO Compressed Natural Gas LPG Liquid Sparoleum Gas LPG Liquid Sparoleum Gas LPG Liquid Sparoleum Sa Status Compressione Na Not Applicable | Light 6 Duty | Gertificat Ion | | Manufacture F | Front- End | DELETE | | DELETE: EV-BR10-"NV-shauld not be lipited as one of the valid values for Fuel-1. It is only valid for Fuel-2. |
| €∀-5 | Fuel-2 | Enter the second fuel type for this- eveporative/returning family if- applicable- | EvaporativeFamily&ubmis sion/EvaporativeFamilyMif ormationDetails | Fuel2identifier | FALSE | | A(3) | Enumeratio R | | | | | | G Gaseline D Disesi M Michanoi E Sthanoi E Sthanoi Life Juguid Petroleum Gas Life Juguid Petroleum Gas H - Hydregen BE Battory Einstrie N- Mer Applicable | Light Duty | Certificat Ion | | Manufaoture F | Front | SMAL | | |

| EPA Data Element | | | | | | | Basic Data | Data Type | Min. | Max. | | Total Fra Digits al I | action Mir | 1. Max. | | | | | | Collect Collect ion ion Point Type | | |
|---------------------|---|--|---|--|----------|--------------|---------------|----------------------|--------|--------|---------|--------------------------|------------|----------|--|---------------|-------------------|-----------------|--------------|--|---------------------------|--|
| Number | Long Name ve Family Information | Description | Parent's Name | XML Tag | Required | Multiplicity | Type | Description | Length | Length | Pattern | Digits al l | Digits Val | ue Value | Allowed Values | Industr | Process | Notes/Questions | Originator | Point Type | Applicable Business Rules | Validation Rules |
| | Bladder fuel tank? | Are the fuel tanks for this evaporative/refueling family equipped with a bladder? | EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/FuelTankDetails | BladderTankIndicat | TRUE | | A(1) | Enumeration | | | | | | | Y = Yes N = No | Light Duty | Certificati | | Manufacturer | Front End XML | | |
| EV-7 | Fuel tank Material | Enter the applicable material for the fuel tank for this evaporative/refueling family Choose 'Other' if both metal and plastic are used, or, some other material or composite is used. | EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/FuelTankDetails | | TRUE | | A(2) | Enumeration | | | | | | | M = Metal P = Plastic OT = Other | Light Duty | Certificati on | | Manufacturer | Front End XML | | |
| | Fuel Tank Material description | Enter a description of the fuel tank. | EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/FuelTankDetails | FuelTankMaterialO therText | FALSE | | A(100) | Normalized String | 1 | 100 | | | | | | Light Duty | Certificati on | | Manufacturer | Front End XML | LD-CERT-EV-BR006 | EV-BR6: If Fuel Tank Material (EV-7) is equal to 'P' (Plastic) or 'OT' (Other) then Fuel Tank Material Description (EV-8) is required. |
| EV-9 | Fill Pipe Seal Type | Enter the applicable type of fill pipe seal for this evaporative/refueling family. | onDetails/FuelTankDetails | FillPipeSealTypeId entifier | TRUE | | A(1) | Enumeration | | | | | | | L = Liquid Seal M = Mechanical Seal | Light Duty | Certificati on | | Manufacturer | Front End XML | | |
| EV-10 | Air Intake System Vapor Storage Device | Do vehicles in this evaporative/refueling family have an air intake system vapor storage device? | onDetails/VaporStorageDetai Is | AirIntakeSystemDe viceIndicator | TRUE | | A(1) | Enumeration | | | | | | | Y = Yes N = No | Light Duty | Certificati on | | Manufacturer | Front End XML | | |
| | Air Intake System Vapor Storage Device Description | Describe the airtake system vaport storage device | EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/VaporStorageDetai Is | i AirIntakeSystemDe viceDescriptionText | FALSE | | A(100) | String | 1 | 100 | | | | | | Light Duty | Certificati on | | Manufacturer | Front End XML | LD-CERT-EV-BR007 | EV-BR7: If Air Intake System Vapor Storage Device (EV10) is equal to "Y (Yes) then Air Intake System Vapor Storage Device Description (EV-10.5) is required. |
| EV-11 | Fuel System Vapor Storage Canister | Do vehicles in this evaporative/refueling family have a fuel system vapor storage canister? | | i VaporStorageCanis terIndicator | TRUE | | A(1) | Enumeration | | | | | | | Y = Yes N = No | Light Duty | Certificati on | | Manufacturer | Front End XML | | |
| EV-12 | Other Vapor Storage | Enter a description of other vapor storage devices for this evaporative/refueling family. | EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/VaporStorageDetai Is | i VaporStorageCanis terDescriptionText | FALSE | | A(30) | Normalized String | 1 | 30 | | | | | | Light Duty | Certificati on | | Manufacturer | Front End XML | | |
| | Fuel System Vapor Storage Canister(s) Tota Working Capacity | Enter the total working capacity (in grams) of all primary and secondary all (bleed) canisters for this evaporative/refueling family. | EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/VaporStorageDetai Is | CanisterTotalWorki i ngCapacityMeasur e | TRUE | | N(4) | Integer | | | | | | 0 9999 | | Light Duty | Certificati on | | Manufacturer | Front End XML | | |
| EV-14 | Number of Primary Canisters | Enter the number of primary canisters for this evaporative/refueling family. | EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/VaporStorageDetai Is | PrimaryCanisterCo unt | TRUE | | N(1) | Integer | | | | | | 0 9 | | Light Duty | Certificati on | | Manufacturer | Front End XML | | |
| | Number of Bleed Canisters | Enter the number of bleed canisters for this evaporative/refueling family. Do not include bleed canisters that are internal to primary canisters. | EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/VaporStorageDetai Is | i BleedCanisterCoun t | TRUE | | N(1) | Integer | | | | | | 0 9 | | Light Duty | Certificati on | | Manufacturer | Front End XML | | |
| | Bleed Canister Total Working Capacity | Enter the total working capacity of all bleed canisters (in grams). | EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails/VaporStorageDetai Is | BleedCanisterTotal WorkingCapacityM easure | FALSE | | N(4) | Integer | | | | | | 0 9999 | | Light Duty | Certificati on | | Manufacturer | Front End XML | LD-CERT-EV-BR008 | EV-BR8: If Number of Bleed Canisters (EV-15) is greater than '0' then Bleed Canister Total Working Capacity (EV-16) is required. |
| | Evap/refueling family system comment | Enter any additional coments about this evaporative/refueling family. | EvaporativeFamilySubmissio n/EvaporativeFamilyInformati onDetails | ManufacturerComm entText | FALSE | | A(1000) | String | 1 | 1000 | | | | | | Light Duty | Certificati on | | Manufacturer | Front End XML | | |

| Pink = TBD | Orange = Changes Du To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | | |
|---|---|--|---|---|----------|--|-----------------------|--------------------------|-------------------|---|-----------------------------------|-----------|-----------|---|------------|---------------|---------------|------------------|-------------------------|---------------------|--|--|
| EPA Data Element Number Test Group | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Description | Min. Le Length | lax ngt 3 | otal. Fraction igits al Digits | Min Value | Max Value | Allowed Values | Industry | Process | NoseQuestions | Originato 2 | Collecti on Point | Collectio n.Type | Applicable Business Rules | Validation Rules |
| | | Select the desired process code for the current submission. | CertificationData Submission/Certi ficationInformati | Information Process | TRUE | | A(1) | Enumeratio | | | | | | N = New dataset C = Correction of existing Veify dataset | Light-Duty | Certification | | | Front | | | If Process Code = "R" or "D" or "C" , a record must exist in Verify for the primary key of this module. |
| 16-0.5 | Process Code | | onDetails | Code | THUE | | A(1) | n | 1 | , | | | | C = Correction of existing Venty dataset | Light-Duty | Carbhoation | | uner | End | XML | | tor the primary key of this module. |
| TG-1 | Manufacturer Code | The 3-character alphanumeric cod assigned by EPA t each manufacture This will be derived from user's CDX user account | r. CertificationData Submission/Certi ficationInformati onDetails | EPAManufacturerC ode | TRUE | Once per test group. | A(3) | String | 3 | [A-20- 3 9](3) | | | | | Light Duty | Cartification | | Verity | Front End | XML | LD-CERT-TG-BR005 LD-CERT-TG-BR009 LD-CERT-TG-BR070 LD-CERT-TG-BR177 | |
| | | | | | | | | | | [A-HJ- NPR- TV-Y1- 9][1][A- Z0- | | | | | | | | | | | LD-CERT-TG-BR001a LD-CERT-TG-BR001b LD-CERT-TG-BR005 LD-CERT-TG-BR005 LD-CERT-TG-BR004 LD-CERT-TG-BR004 LD-CERT-TG-BR004 LD-CERT-TG-BR004 LD-CERT-TG-BR004 | |
| TG-2 | Test Group | Enter the applicable test group name for thi set of certification information. | CertificationData s Submission/Certi ficationInformati onDetails | TestGroupName | TRUE | 1-1 | A(12) | String | 12 1 | NPR- TV-Y1- 9 (1) A- 20- 9 (4,11) (0,) [A- 20- 9 (1,6)) 2 ? | | | | | Light Duty | Certification | | Manufact | Front | XML | LD-CERT-TG-BR006 LD-CERT-TG-BR079 LD-CERT-TG-BR084 LD-CERT-TG-BR101 | Text group model year must be current year through current year + 2. |
| | | Internation. Enter the applicable type for this set of certification information: New, Update for Correction, or Update for Running Change. | r CertificationData | | | | | | | | | | | | | | | | | | | |
| TG-4 | CSI Type | information: New, Update for Correction, or Update for Running Change. | Submission/Centi fication/nformati onDetails/TestGr oup/dentification Details | CertificateTypelde ntifier | TRUE | Once per test group. | A(1) | Enumeratio n | | | | | | N = New U = Update For Correction R = Update For Running Change | Light Duty | Certification | | Manufact | Front | XML | LD-CERT-TG-BR103 | N implies this test group must not exist in Verily. |
| | | Numming change. When the Update Indicator = R ² , enter the running change number or document file name for the sunning change that was submitted to Veify's document system. | Our of Caralian Dava | | | | | | | | | | | | | | | | | | | |
| | Running Change Reference Number | name for the running change that was submitted to Verify's | CertificationData Submission/Certi fication/nformati onDetails/TestGr oup/dentification | RunningChangeRe ferenceNumberTex | | Once per test group. | | Normalized | | | | | | | | | | Manufact | Front | | | This field must be present when TG-4 is "R". |
| 16-5 | Keference Number | | ContilicationDate | | FALSE | Once per leat group. | A(100) | string | 1 1 | 00 | | | | | Light Duty | Carbhoation | | uner | End | XML | LD-CERT-TG-BR003 LD-CERT-TG-BR001a LD-CERT-TG-BR001b LD-CERT-TG-BR002 LD-CERT-TG-BR004 | |
| TG-6 | Model Year | Enter the applicable model year for this test group. | Submission/Centi fication/nformati on/Details | ModelYear | TRUE | Once per test group. | N(4) | Year type (1970-2100) | | | | 1957 | 2100 | | Light Duty | Certification | | Manufact uner | Front End | XML | LD-CERT-TG-BR004 LD-CERT-TG-BR004 LD-CERT-TG-BR009 LD-CERT-TG-BR000 | Model year must match Test group model year and evap fam model year. |
| | | Enter the- applicable v shee for the drive- course for this- test group. Soles | ContilicationDas aSubmission/Co reficationInform ationDotaile/Too | | | | | | | | | | | C - Combuston Engine | | | | | | | | |
| 70-7 | Drive Source | Ster fuel cell- cleatric vehicle. | CertificationData | DriveSourceldens fier | TRUE | Crise per lest group. | 4(I) | Enumeratio P | | | | | | E - Elocuie Motor X - Nybrid | Light Duty | Certification | | Manufact uror | Front- End | x | | |
| NEW | | applicable value for the drive source for this test group. Selec 'E' for fuel cell | Submission/Ceni fication/nformati onDetails/TestGr oup/dentification Details/DriveSou | Driv eSourceIdenti | | | | Enumeratio | | | | | | C = Combustion Engine E = Electric Motor | | | | Manufact | Front | | | |
| TG-7.1 | Drive Source | electric vehicle. | rceDetails | fier | TRUE | 12 per Test Group | A(1) | • | | | | | | H - Hjärid | Light Duty | Certification | | urer | End | XML | Add LD-CERT-TO-IB001 | |
| | | Are the vehicles | CertificationDat a Submis sion/Ce | | | | | | | | | | | | | | | | | | | |
| NEW TG-7.2 | Hybrid Indicator | hybrid electric vehicles (HEVs) as defined in 40 CFR 86.1803-01? | rtificationInform ationDetails/EP AGeneratedCert ificationDetails | HybridVehicleIndi cator | TRUE | 1 per Test Group | A(1) | Enumeratio n | | | | | | N - No Y - Yes | Light Duty | Certification | | Verify | Back End | Assigned | Add LD-CERT-TG-BR105 Add LD-CERT-TG-BR162 | If Drive Source = Combustion Engine and Electric Motor then Hybrid Indicator = Yes, otherwise it = No. |
| | | | CertificationData Submission/Certi fication/nformati | | | | | | | | | | | G - Guadaline D - Diversit M - Merkhanol E - Ethanol LNG - Liquide Natural Gas LPG - Liquide Natural Gas LPG - Liquide Natural Gas LPG - Liquide Natural Gas H - Hydrogen Et D - Hydrogen Et D - Nydrogen | | | | | | | Add LD-CERT-TG-BR007 Add LD-CERT-TG-BR158 Add LD-CERT-TG-BR159 Add LD-CERT-TG-BR160 | If Drive Source = Combustion Engine, Fuel can not equal |
| NEW TG-7.3 | Fuel(a) | Enter all applicable fuels for this test vehicle configuration. | onDetails/TestGr oupIdentification Details/DriveSou rceDetails/FueIId entifierDetails | Fuelldentifier | TRUE | 1n per Drive Source per Test Group | AG) | Enumeratio | | | | | | LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity HYD - Hydraulic | Light-Duty | Certification | | Manufact | Front | XMI | Add LD-CERT-TG-BR160 Add LD-CERT-TG-B8002a Add LD-CERT-TG-BR106 Add LD-CERT-TG-BR107 VER115 | If Drive Source = Electric Motor, Fuel must equal Electricity, Hydrogen, or Methanol. |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | MFI = Multipoint/sequential fuel injection CMIX = CNG mixer unit GDI = Caselins -Spark Ignition Direct fuel injection GDPI = Spark Ignition direct & ported. | | | | | | | | |
| | | Enter the | | | | | | | | | | | | Injection LMIX = LPG Mixer CRDI = Common Rail <u>Direct</u> Diesel Injection GFI = Gaseous Fuel Injection DDI = Direct Diesel Injection <u>(non-common</u> | | | | | | | | Required if Drive Source (10-7.1) = 'C', otherwise not allowed. |
| NEW 10-7.4 | Basic fuel metering system | applicable fuel metering system type for this test group. | CertificationDetat | PrimaryFuelMeteri ngSystemIdentifier | FALSE | Once per selected Fuel (10-7.3) per Driv e Source (10-7.1) per test group | A(4) | Enumeratio n | | | | | | rail) IDI = Indirect Diesel Injection TBI = Throttle Body Injection OT = Other (contact EPA prior to use) | Light Duty | Certification | | Manufact urer | Front End | XML | Add LD-CERT-TO-IB003 Add LD-CERT-TO-BR108 | allowed. Required if <u>70:7 - X⁺or if 70:7 - 37 and 70:38 - 5M⁺or 5M⁺-</u> Optional if <u>70:38 - 50</u> . |
| | | Does the fuel metering system employ lean burn strategy (e.g. to significantly | CertificationData Submission/Certi ficationInformati onDetails/TestOr oupIdentification | | | Once per selected Fuel | | | | | | | | | | | | | | | | |
| NEW TG-7.4.1 | Lean Burn Strategy Indicator | improve the fuel economy of the vehicle)? | Details/DriveSou rceDetails/FueIId entifierDetails | LeanBurnStrategy Indicator | FALSE | Once per selected Fuel (TG-7.3) per Drive Source (TG-7.1) per test group | A(1) | Enumeratio n | | | | | | N=No Y=Yes | Light Duty | Certification | | | | | Add LD-CERT-TG-BR109 | Not allowed if basic fuel metering system (TO-7.4) is CMIX, LMIX, CRDI, GFI, DOI or IDI otherwise required. |

420d11003.xls TG+

| EPA Data | | | | | | | Basin | | May | | | | | | | | | | Collecti | | |
|-------------------|---|---|---|--|----------|--|--------------|--------------------------|------------|------------|--------------------------------|-----------|-----------|---|------------|----------------------------|---|------------------------|--|---|--|
| Element Number | Long Name Information | Description | Parent's Name | XML Tag | Required | Multiplicity | Deta Type | Data Type Description | Min Length | Pattern Di | tal Fraction gits al Digits | Min Value | Max Value | Allowed Values | Industry | Process | Notes/Ducations | Diginato 1 | Collectio Point Collectio Point n Type | Applicable Business Rules | Validation Rules |
| NEW (10-7.5) | CREE Weighting Factor for DualMultipe Fuel Vehicles | Enter the CREE weighting factor bath has been approved by EPA downweight of the down apply has been down apply has been down apply apply which as for this sat group . | Gantification/Data Submission/Centi fication/Iomault on/Datails/TestGr out/stentification Datails/Gwenho use Gas/DificialT s | WeightFactorValu 9 | FALSE | Once Per Tast Group Fiel (10-217.1) per tast group | t N(5,4) |) Decimal | | | 5 4 | 0.0000 | | | Light-Duty | Certification | | fanufact rer | Front End XML | Add LD-CERTITO-IB005 Add LD-CERTITO-IB0015 Add LD-CERTITO-BR110 Add LD-CERTITO-BR1112 Add LD-CERTITO-BR1112 | This field is required if more than one built is subcase for the fact drosp. Need to add Backless Plants for which hasts the weighting the second state of the second state of the second backless field in the second state of the second state backless field in the second state of the second state backless field in the second state of the second state backless field in the second state of the second state backless field in the second state of the second state state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second of CEEE weighting factors must sum to 1. |
| NEW 1 T0-7.6 | Multiple Fuel Storage- Separate or Together | If multiple fuels are selected for Fuel(s), are the fuels stored separately or together? | CertificationDeta Submission/Certi ficationInformati onDetails/TestGr oupIdentification Details | MultipleFuelStora geMethodidentifier | FALSE | 1 per test group | A(8) | Enumeratio | | | | | | 5 - Fuels Stored Separately T- Fuels Stored Together | Light-Duty | Certification | u a | fanulact urer | Front end XML | Add LD-CERT-TO-BR113 | Required if more than one had is selected for Fusity (FD-7-3) and If Drive Source (TD-7-1) equals Combustion Engine, otherwise not allowed. |
| NEW 0 | Multiple Fust Combustion - Separate of Together | If multiple fuels are selected for Foat(s), are combusted separately or together? | CertificationData SubmissionCerti ficationInformati oupMentification Dehaits | MultipleFuelComb astionMathodidant ifer | FALSE | 1 per Test Group | A(8) | Enumeratio | | | | | | 5 Fash Combused Separately 7 Fash Combused Separately | Light-Duty | Certification | | fanulact urer | Frond XML | Add DCERTID BR114 | P Drive Source (1977;) extends 10; (Sandhactine Fogline) and 7 more team on Fund() (107–3) stretched is combanding (au- celestion ¹⁴ ; (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Oracle (1); Digetine (107–7) is required. Otherwise, is in one observed. |
| NEW TG-7.8 | Fuel Cell Indicator | Are vehicles within this test group equipped with a Fuel Cell? | CertificationData Submission/Certi ficationInformati onDetails/TestGr oupIdentification Details | FuelCellIndicator | FALSE | 1 per Test Group | A(1) | Enumeratio | | | | | | N - No Y - Yes | Light-Duty | Certification | | fanufact urer | Front end XML | Add LD-CERT-TG-BR115 | Required if Drive Source (TG-7.1) equals "E" (Electric Motor), otherwise optional |
| NEW 5 TG-7.9 | Rechargable Energy Storage System Indicator | Are vehicles within this test group equipped with a rechargable energy storage system? | CertificationDat aSubmission/Ce rificationInform ationDetails/Tes tGroupIdentifica tionDetails | RechargeableEner gyStorageSystemI ndicator | FALSE | 1 per Test Group | A(1) | Enumeratio n | | | | | | N - No Y - Yes | Light-Duty | Certification | | fanufact urer | Front end XML | Add LD-CERT-TG-BR116 | Required if Drive Source (10-7.1) equals "E" (Electric Motor), otherwise optional. |
| NEW 0 TG-8.3 | Off-board Charge Capable Indicator | Select "Yes" if vehicles within this test group are equipped with an electric motor that is capable of baing charged off- baing charged off- baing charged off- baing charged off- therwise select "No". | CertificationData Submission/Certi ficationInformati onDatails/TestGr oupidentification Datails | OfBoardChargeCa pabilityIndicator | FALSE | 1 per Test Group | A(1) | Enumeratio | | | | | | N - No V - Yes | Light-Duty | Certification Test Data | u. | fanulact urer | Front end XML | Add LD-CERT-TG-BR117 | Required il Drive Source (TD-7.1) equals "E" (Electric Motor), othernite optimut. |
| 10.17 | | Enter the- spylicities fuel for the tothermon | CertificationDat a Submission/Se a Submission/Se ation/Dataile/Tas ation/Dataile/Tas iden/Dataile/Tas | E-m)Habastifier | 78115 | | | Enumeratio | | | | | | G Caselins Disest Based COC Carport COC Carport Natural Cas HW - Liquid Reference Cas H- Disect Restance Cas H- One Classifier Sections Cas H- One Classifier Sections | Links Duty | Contification | | tenulect | Front: | Deletes LD-CERT-TG-BR014 Deletes LD-CERT-TG-BR014 | Net there are the displayed as over all the solid values for- |
| | | Enter the second- kel if the "yebite kel category" for dis tott group is- for fuel from the | CartificationDas oSubmissionPos relicationEnteriorem ationDosaliorTec | | | Create per recent group. | | Formation 1 | | | | | | C.—Caseline D.—Street L.—Street L.— | | | | | 5.005 PARC | | |
| 70-18 5 | Fuel-3 | er til 4001 Enter the applicatio vehisto kell category for | ilenDotaile CertificationDas aSubmissionCo reficationNom discretationNom tGroupIdonFice | Puel2Identifies | FALSE | Creace por teach-group. | 4(4) | R. | | | | | | NAL-Non-Applicable B-Climple-Tool Part Part Construction of and combusted Part Part Construction Part Construction P | Light Duty | Certification | Provide secure protocological and the second s | | End XML | Delete LD-CERT-TG-BR058 Delete LD-CERT-TG-BR058 Delete LD-CERT-TG-BR059 Delete LD-CERT-TG-BR059 Delete LD-CERT-TG-BR059 | angeler (, et and a sin a direct) |
| TG-9 | Vehicle Fuel Category- Federal Clean Fuel Vehicle | Is this test group being certified to Federal Clean Fuel Vehicle emission standards? | tenDetaile CertificationData SubmissionCerti ficationInformati onDetailsTeatOr oupIdentification Details/FederalC leanFuelVehicle Details | eryteensilee. Clean Fuellindicator | TRUE | Once per test group. | A(1) | Enumeratio | | | | | | NF-Mail Fuel (Key Han 3 Suite, TBD) Y = Yes N = No | Light Duty | Certification | permenen war war of the P. des right can set the set on a buildest rade. U | rer fanulact rer | Front End XML | LD-CERT-TG-BR011 | The - - - - - - - - - |
| TG-10 | Federal Clean Fuel Vehicle Standard | Enterthe applicable Clean Fuel Vehicle Standard for this test group. | CertificationData Bubmission/Certi ficationInformati onDetails/TextGr oupkdentification Details/FederalC IeanFuelVehicle Details | CleanFuelStandar didentifier | FALSE | Once per test group. | A(4) | Enumeratio n | | | | | | LEV ULEV ZEV | Light Duty | Certification | Ma un | fanufact rer | Front End XML | LD-CERT-TG-BR012 | Must be present if TG-9 = Y and must not be present if TG-9 = N. |
| F TG-11 | Federal Clean Fuel Vehicle ILEV | Is this test group being certified to Federal Clean Fuel Vehicle ILEV emission standards? | Certification/Data Submission/Certi fication/Informati on/Details/TestOr oup/dentification Details/Federal/C JeanFuel/Vehicle | 1 | FALSE | Once per test group. | A(1) | Enumeratio n | | | | | | Y = Yes N = No | Light Duty | Certification | Market and American A American American Ameri | fanulact rer | Front End XML | LD-CERT-TG-BR013 | Must be present if TO 4 = Y and must not be present if TO 4 = N. Subhemous if TO-11 = Y then either TO-17 = OK2, LNG or LPG or TO 8 = EV or FC. |

SEPA



XML Tag

EPA Deta Element

Number Test Grou Long Name rmation Basic Data Type Type Description Min Lengt

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EPA Deta Element

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| EPA Date Element Number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Typ Descriptio | e Min n Lengt | Max Lengt h h Pat | <u>Total</u> Digits a | raction I Digits Min Valu | e Max | Value | Allowed Values | Industry Process | Norse/Questions 5 | riginato r | Collecti on Point | Collectio n Type | Applicable Business Rules | Validation Rules |
|-------------------------------|---|---|--|--|----------|--|-----------------------|------------------------|------------------|-------------------------|--------------------------|------------------------------|-------|-------|---|---------------------------|---------------------------------------|----------------------|-------------------------|---------------------|---|---|
| Test Group | Information | | CertificationData Submission/Certi | | | | | | | | | | | | | | | | | | | |
| | | Does this engine configuration utilize variable valve timing | ficationInformati onDetails/Hybrid CombustionEngi neDescriptionDet ails/EngineConfi | VariableValveTimi | | Repeats for each engine | | Enumerati | • | | | | | | Y = Yes | | | anufact F | Front | | LD-CERT-TG-BR021 LD-CERT-TG-BR031 Update LD-CERT-TG-BR085 | |
| TG-41 | Variable Valve Timing | sechnology? | gutation Datails Certification Data | ngIndicator | FALSE | configuration (TG-36). | A(1) | n | | | | | | | N = No | Light Duty Certification | u | ir E | End | XML | Add LD-CERT-TO-BR119 | Rule B applies. |
| TG-42 | Variable Valve Timing System Description | Enter a description of the variable valve timing technology utilized on this engine configuration. | Submission/Centi ficationInformati onDetails/Hybrid CombustionEngi neDescriptionDet ails/EngineConfi outationDetails | Variable Valve Timi ndDescriptionText | FALSE | Repeats for each engine | | | | | | | | | | | | anufact | Front | | LD-CERT-TG-BR021 LD-CERT-TG-BR033 Update LD-CERT-TG-BR085 Add LD-CERT-TG-BR119 | Required If TG-41 = Y |
| 16-42 | System Description | confriguration. | gutationDetails CertificationData Submission/Certi | ngDescription I ext | FALSE | configuration (1G-36). | A(1000 |) String | , | 1000 | | | | | | Light Duty Certification | u | r t | End | XML | Add LD-CER1-1G-BR119 | Required if 1G-41 = Y |
| TG-43 | Variable Valve Lift? | Is this engine configuration equipped with a variable valve lift mechanism? | ficationInformati onDetails/Hybrid CombustionEngi neDescriptionDet ails/EngineConfi | Variable ValveLiftin | FALSE | Repeats for each engine configuration (TG-36). | 4/0 | Enumerati | • | | | | | | Y = Yes N = No | Links Date: Costification | | anulact ¹ | Front | Y.M. | LD-CERT-TG-BR021 LD-CERT-TG-BR031 Update LD-CERT-TG-BR035 Add LD-CERT-TG-BR119 | Rule B applies. |
| 1045 | | Entera description | CertificationData Submission/Certi | Citator . | TALUL | coningulation (10-00). | 0(1) | | | | | | | | n = nv | cigin buly constrained | | <u> </u> | LING | AML. | | nan Dappris. |
| TG-44 | Variable Valve Lift System Description | of the variable valve lift mechanism utilized on this engine configuration. | ficationInformati onDetailsHybrid CombustionEngi neDescriptionDet ails/EngineConfi gurationDetails | Variable ValveLiftD escription Text | FALSE | Repeats for each engine configuration (TG-36). | A(1000 |) String | 1 | 1000 | | | | | | Light Duty Certification | N N N N N N N N N N N N N N N N N N N | anufact i er | Front | XML | LD-CERT-TG-BR021 LD-CERT-TG-BR034 Update LD-CERT-TG-BR085 Add LD-CERT-TG-BR119 | Required if TG-43 = Y |
| | | Enter the number | CertificationData Submission/Certi | | | | | | | | | | | | | | | | | | | |
| TG-45 | Number of Inlet Valves Per Cylinder | of inter walves per cylinder for this engine configuration. Enter 0 if not applicable. | onDetails/Hybrid CombustionEngi neDescriptionDat ails/EngineConfi gutationDetails CertificationData | InletValvesPerCyli nderCount | FALSE | Repeats for each engine configuration (TG-38). | N(1) | Insiger | | | | ٥ | 4 | 9 | | Light Duty Certification | | anufact i ar | Front End | XML | LD-CERT-TG-BR021 LD-CERT-TG-BR031 Update LD-CERT-TG-BR035 Add LD-CERT-TG-BR119 | Rule B applies. |
| | Number of exhaust Valves Per Cylinder | Enter the number of exhaust valves per cylinder for this engine configuration. Enter 0 if not | Submission/Certi fication/Informati a onDetails/Hybrid CombustionEngi neDescriptionDet ails/EngineConfi | ExhaugValvesPerC | | Repeats for each engine | | | | | | | | | | | | anufact | Front | | LD-CERT-TG-BR021 LD-CERT-TG-BR031 Update LD-CERT-TG-BR085 Add LD-CERT-TG-BR119 | Puis Provider |
| TG-46 | varves Per Cylinder | applicable. | gutationDatails CertificationData Submission/Corri | ylinderCount | FALSE | configuration (TG-36). | N(1) | Integer | | | | 0 | 5 | 9 | | Light Duty Cartification | | r E | End | XML | And LD-CENT-IG-BR119 | Rule B applies. |
| TG-47 | Air Aspiration Method | Enter the applicable air aspiration methods for this engine configuation. | ficationInformati onDetailsHybrid CombustionEngi neDescriptionDet ails/EngineConfi gurationDetails | AirAspirationMetho | FALSE | Repeats for each engine configuration (TG-36). | A(2) | Enumerati | • | | | | | | NA=Naturally aspirated TC=Turbocharged SC=Supercharged TS=Turbocharged+Supercharged OT=Other | Light Duty Certification | N N N N N N N N N N N N N N N N N N N | anufact i er | Front | XML | LD-CERT-TG-BR021 LD-CERT-TG-BR030 Update LD-CERT-TG-BR085 Add LD-CERT-TG-BR119 | Rule A applies |
| | | Enter the number of air aspiration devices for this | CertificationData Submission/Certi ficationInformati onDatails/Hybrid CombustionEngi neDescriptionDat | | | | | | | | | | | | | | | | | | LD-CERT-TG-BR021 LD-CERT-TG-BR073 LD-CERT-TG-BR075 LD-CERT-TG-BR076 Update LD-CERT-TG-BR085 | |
| TG-48 | Number of Air Aspiration Devices | engine configuration. | ails/EngineConfi gutationDatails | AirAspirationDevic eCount | FALSE | Repeats for each engine configuration (TG-36). | N(2) | Integer | | | | 0 | 9 | 10 | | Light Duty Certification | 5. | inufact F | Front End | XML | Update LD-CERT-TG-BR085 Add LD-CERT-TG-BR119 Add LD-CERT-TG-BR179 | Rule A applies. Required if Air Aspiration Method (TG-47) NA: |
| TG-49 | Air Aspiration Device Configuration | Enter the air aspiration device configuration for this engine configuration. | CertificationData Submission/Ceni ficationInformati onDetails/Hybrid CombustionEngi neDescriptionData ails/EngineConfi gurationDetails | AirAspirationConfig | FALSE | Repeats for each engine configuration (TG-38). | A(2) | Enumerati | 0 | | | | | | N = Single P = Panalel S = Senter PS = Both (Panalel and Seried) | Light Duty Cartification | | anulact F ar E | Front | XML | LD-CERT-TG-BR021 LD-CERT-TG-BR074 Update LD-CERT-TG-BR035 Add LD-CERT-TG-BR119 Add LD-CERT-TG-BR179 Add LD-CERT-TG-BR179 | Rule A applies. |
| | Air Aspiration Method if | Enter a description of the air aspitation method for this engine configuration if | CertificationData Submission/Certi ficationInformati n onDetails/Hybrid CombustionEngi neDescriptionDat aits/EngineConfi | LinksmissionMetho | | Repeats for each engine | | | | | | | | | | | | | | | LD-CERT-TG-BR021 LD-CERT-TG-BR035 LD-CERT-TG-BR072 | |
| TG-50 | Air Aspiration Method if Other | configuration if "other" is selected. | gutationDetails CertificationData | AirAspitationMetho dOtherText | FALSE | Repeats for each engine configuration (TG-36). | A(30) | String | 1 | 30 | | | | | | Light Duty Certification | | anufact F er E | End | XML | Add LD-CERT-TG-BR119 | Must be present if TG-47 = Other. |
| TG-51 | Charge Air Cooler Type | Enter the applicable charge air cooler type for this engine configuration. | Submission/Centi ficationInformati onDetails/Hybrid CombustionEngi neDescriptionDet ails/EngineConfi gutationDetails | ChargeAirCoolerid entifier | FALSE | Repeats for each engine configuration (TG-36). | A(1) | Enumerati | 0 | | | | | | A = Air L = Liquid N = NA | Light Duty Cartification | | anufact f | Front End | XML | LD-CERT-TG-BR021 LD-CERT-TG-BR003 Update LD-CERT-TG-BR085 Add LD-CERT-TG-BR119 | Rula À applies. |
| | Engine Configuration | Enter any additional comments about this engine | CertificationData Submission/Certi ficationInformati onDetails/Hybrid CombustionEngi neDescriptionDat ails/EngineConfi | ManufacturerCom | | Repeats for each engine configuration (TG-36). | | | | | | | | | | | | anufact | Front | | LD-CERT-TG-BR021 LD-CERT-TG-BR087 | |
| TG-52 | Comments Exhaust Emission Contro | configuration. | guration Datails | mentText | FALSE | configuration (TG-36). | A(1000 |) String | 1 | 1000 | | | | | | Light Duty Certification | | а — В | End | XML | Add LD-CERT-TG-BR119 | Data set is not allowed if TG-7 = 12'. Here to end is assumed. |
| | | | ExhaustEmissio | | | | | | | | | | | | | Caronadon | | | | | | |
| | After Treatment Device St | Enter the total number of after | nControlSystem CertificationData Submission/Certi ficationInformati onDetails/Exhau sEmission/Contr olSystemDetails/ | | | | | | | | | | | | | Light Duty Certification | | | | | Delete LD-CERT-TG-BR025a Delete LD-CERT-TG-BR025b LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c | Required if Drive Source (10-7.1) equals "CE" (Combustion Engine) or If Hybrid Indicator (10-7.2) equals "yes" and Hybrid Type (10-24) equals 1541 (C Enginetizetric Motor) or "EH (IC Engine/Hydraulic), otherwise not allowed. |
| TG-53 | Treatment Devices (ATDs) | treatment devices for this test group. | | AftertreatmentDevi ceCount | FALSE | Once per test group. | N(2) | Integer | | | + | 0 | 9 | 10 | | Light Duty Certification | h | anufact F er E | Front End | XML | Add LD-CERT-TG-BR128 Add LD-CERT-TG-BR181 | Required # TO 7 = 'C' or if (TO 7 = 'F AND 'TO 36' = 'EM' or 'EM) |
| | | Enter a description of the after treatment devices | CertificationData Submission/Certi ficationInformati onDetails/Exhau sEmissionsContr o1SystemDetails/ AftertreatmentDe | ManufacturerCom | | | | | | | | | | | | | | anufact F | Front | | LD-CERT-TG-BR036a LD-CERT-TG-BR036b | Required il TG-7 = 1℃ oril (TG-7 = 1+1 AND *TG-26* = 15M* or 15H). (Delete this business rule? Or was this rule already |
| TG-54 | ATD Comments | for this test group. | vicesDetails | mentText | FALSE | Once per test group. | A(1000 |) String | 1 | 1000 | | | | | | Light Duty Certification | | <i>a</i> E | End | XML | LD-CERT-TG-BR038c | deleted?) |
| TG-55 | ATD Number | A number assigned by Verify to each after treatment device. | n/a CertificationData | AltertreatmentDevi ceNumber | FALSE | Repeats the same number of times as the Number of ATDs (TG-53) | I. N(2) | Integer | | | | 1 | | 10 | | Light Duty Certification | v v | uity I | Front End | generate d | LD-CERT-TG-BR036b LD-CERT-TG-BR036c Add LD-CERT-TG-BR166 | Required if TG-7 = 'C' or if (TG-7 = 'H' AND *TG-26' = 'EM' or 'EH'). |
| TG-56 | ATD Type | Enter the type of after treatment device for this ATD number. | Submission/Certi fication/informati onDetails/Exhau stEmissions/Contr olSystem/Details/ AftertreatmentDe vices/Details/After treatmentDevice Details | AftertreatmentDevi ceTypeldentifier | FALSE | Repeats the same number of times as the Number of ATDs (TG-53) | I. A(6) | Enumerati | ia. | | | | | | TWG = Threa-way catalyst OC = Oxidation catalyst OC = Threa-way catalyst TWC+OC = Threa-way catalyst PWF= Diseal Particulate Filter SOR = Selective Catalystic Reduction NOXAD = NOX Adsorber OT = Other | Light Duty Certification | | anufact (| Front | XML | Deless LD-CERT-T0-BR025a Deless LD-CERT-T0-BR025b LD-CERT-TG-BR036b LD-CERT-TG-BR036b Add LD-CERT-T0-BR036c Add LD-CERT-T0-BR166 | Required if TG-7 = °C' or if (TG-7 = °F AND *TG-26" = °EM' or °EF1. |

Basic. Data

Data Type Min Lengt

EPA Deta Element

Number Test Gro r Point

| Test Group | Information | | | | | | | | | | | | | | | Trock a | NORM COMPONE | | | | | |
|----------------------------------|--|---|---|---|----------------------------------|---|---------------------------------|--|-------------|------|---|--------|---|--------------|--|--|--------------|--|---|--|--|--|
| | | Enter the type of exhaust gas | CertificationData Submission/Certi ficationInformati | | | | | | | | | | | | | | | | | | | |
| TG-69 | EGR Type | recirculation device for this engine | CombustionEngi neDescriptionDet aits/EngineConfi | ExhaustGasRecircu | FALSE | Repeats for each engine configuration (TG-38). | A(4) | Enumeratio | | | | | | | VVTC = Variable Valve Timing Control EEGR = Electronio/Electric VEGR = Vacuum OT = Other | Light Duty Certification | | Manufact | Front | | LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c | |
| 10-69 | EGR type | configuration. Enter a description of the exhaust gas recirculation device for this region | CertificationData Submission/Certi ficationInformati | lationidentifier | PALSE | conliguiation (1G-36). | A(4) | 8 | | | | | | | 01 = Unar | Light Duty Camindation | | unar | Eng . | AML | ED-CERT-1 G-BRUSSE | |
| | Exhaust Gas Recirculation Description if Other | ecirculation device for this engine configuration if "other" is selected. | onDetails/Hybrid CombustionEngi neDescriptionDet ails/EngineConfi | ExhaustGasRecircu | | Receats for each engine | | | | | | | | | | | | Manufact | Front | | LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c | |
| TG-70 | Description if Other | "other" is selected. | gurationDetails CertificationData Submission/Certi | ExhaustGasRecircu lationOtherText | FALSE | Repeats for each engine configuration (TG-36). | A(30) | String | 1 | 30 | - | | | | | Light Duty Certification | | uner | Front End | XML | LD-CERT-TG-BR036c | |
| | | Does this engine configuration have a closed-loop air iniartion astem? | Incationinformati onDetailsHybrid CombustionEngi neDescriptionDet | 1 | | | | | | | | | | | | | | | | | LD-CERT-TG-BR036a | |
| TG-71 | Closed Loop Air Injection System | a closed-loop air injection system? | ails/Engine/Confi gutation/Datails Certification/Data Submission/Certi | ClosedLoopAinhje ctionIndicator | FALSE | Repeats for each engine configuration (TG-38). | A(1) | Enumeratio n | | | | | | | Y = Yes N = No | Light Duty Certification | | Manufact uner | Front End | XML | LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c | |
| | | Enter the applicable type of air injection system | ficationInformati onDetails/Hybrid CombustionEngi neDescriptionDet | | | | | | | | | | | | AIR = Secondary Air Injection | | | | | | ID CEPT TO BRIDE | |
| TG-72 | Air Injection Type | for this engine configuration. | ailsEngineConfi gurationDetails CertificationData | AirlnjectionIdentifi er | FALSE | Repeats for each engine configuration (TG-36). | A(4) | Enumeratio n | | | | | | | AIR = Secondary Air Injection PAIR = Putsed Secondary Air Injection NA =Not Applicable OT = Other | Light Duty Cartification | | Manufact urer | Front End | XML | LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c | |
| | | Enter a description of the air injection system for this | Submission/Certi ficationInformati onDetails/Hybrid CombustionEngi | | | | | | | | | | | | | | | | | | | |
| TG-73 | Air Injection if Other | engine configuration if "other" is selected. | neDescriptionDet ails/EngineConfi gutationDetails | AirlinjectionOtherT ext | FALSE | Repeats for each engine configuration (TG-36). | A(30) | String | 1 | 30 | | | | | | Light Duty Certification | | Manufact urer | Front End | XML | LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c | |
| | | Enter the applicable type of direct ozone reduction (DOR) | CertificationDate | | | | | | | | | | | | | | | | | | | |
| | | device for this test group. If equipper with a DOR, must obtain prior EPA | Submission/Certi fication/Informati onDetails/Exhau stEmissionsContr | | | | | | | | | | | | | | | | | | | |
| TG-74 | Direct Ozone Reduction (DOR) Device | approval before requesting a certificate for this test group. | olSystemDetails/ OtherExhaustEm issionsControlDe viceDetails | DirectOzoneReduct ionDeviceIdentifier | FALSE | Once per test group. | A(2) | Enumeratio n | | | | | | | CR = Catalytic Radiator NE = Not Equipped OT = Other | Light Duty Certification | | Manufact | Front End | XML | LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c | |
| | | | CertificationData Submission/Certi ficationInformati onDetails/Exhau | | | | | | | | | | | | | | | | | | | |
| | | Enter a description of the direct ozone reduction if other i | stEmissionsContr olSystemDetails/ OtherExhaustEm issionsControlDe | DirectOzoneReduct ionDeviceOtherTex | | | | | | | | | | | | | | Manufact | Emer | | LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c | |
| TG-75 | DOR Device if Other | selected. | viceDetails CertificationData Submission/Certi | t | FALSE | Once per test group. | A(30) | String | 1 | 30 | | | | | | Light Duty Certification | | uner | Front End | XML | LD-CERT-TG-BR036c | |
| | | Enter any additional comments about | ficationInformati onDetails/Exhau stEmissionsContr olSystemDetails/ | | | | | | | | | | | | | | | | | | | |
| TG-76 | Emission Control Device Comments | the emission control devices for this test group. | ofSystemDetails OtherExhaustEm issionsControlDe viceDetails | ManulacturerCom mentText | FALSE | Once per test group. | A(1000) |) String | 1 1 | 1000 | | | | | | Light Duty Certification | | Manufact | Front End | XML | LD-CERT-TG-BR036a LD-CERT-TG-BR036b LD-CERT-TG-BR036c | |
| | | | | | | | | | | | | | | | | | | | | | | The data set T0.77 to T0.101 is Required if T0.8 - 'HV' 'EV' |
| | Hybrid Electric Vehicle | 1 | ation Cartification Data | | | | | | | | | | | | | Light Duty Certification | | | | | | The data set TG-77 to TG-101 is Required if TG-8 = 'HV', 'EV', or 'FC', else it is not allowed. |
| | Hybrid Electric Vehicle | Enter the | ation CertificationData Submission/Certi ficationInformati onDetails/Hybrid Electric/Jobidoc | RechargeableEner | | | | Esumentio | | | | | | | B = Battery(s) C = Capacitor BC = Pantery and Capacitor M = Machine | Light Duty Certification | | Magudart | Enner | | Delete LD-CERT-TG-BR041 Update LD-CERT-TG-BR086 | The data set 10-27 to 10-01 is Required if 10-8 = 14Y, "EV, or FC, elise it is not allowed. Required if Drive Source (T0-7.1) equals 'EW'(Electric Motor) or if Hybrid Indicator (T0-7.2) equals 'yes' or if Foul Calif Indicator (T0-7.8) equals 'yes', otherwise not allowed. |
| TG-77 | Hybrid Electric Vehicle . Rechargeable Energy Storage System Device | Enter the applicable type of energy sorage device for this test group. | Cartification/Data Submission/Certi fication/Informati on/Details/Hybrid ElectricVehicleF uelCell/Details Cartification/Deta Submission/Certi | RechargeableEner gyStorageDeviceId entifier | FALSE | Once per test group. | A(2) | Enumeratio | | | | | | | B = Battery(s) C = Capacitor BC = Battery and Capacitor M = Mydrautie OT = Other | Light Duty Certification | | Manufact urer | Front | XML | | |
| TG-77 | Hybrid Electric Vehicle . Rechargeable Energy Storage System Device Rechargeable Energy Storage Device if Other | Enter the applicable type of energy storage device for this test group. | ation CertificationData Submission/Certi ficationInformati enderteilseHybrid LectricVahioleF uelCellDetails Submission/Certi ficationInformati onDetailsHybrid ElectricVahioleF uelCellDetails | RechargeableEner gyStorageDeviceId entifier RechargeableEner gyStorageDeviceOt herText | FALSE | Once per seat group. | A(2) | Enumeratio n String | 1 | 30 | | | | | B = Basey(b) C = Capacitor to Capacitor H = Nyaation OT = Other | Light Dury Certification | | Manufact uner Manufact uner | Frant End : | XML | | Required if Drive Source (TG-7.1) equals 'EM' (Electric Motor) or if hybrid Indicator (TG-7.2) equals yes' or if Fuel Call Indicator (TG-7.8) equals 'yes', otherwise not allowed. |
| | Rechargeable Energy Storage System Device Rechargeable Energy | Enter the applicable type of energy storage device for this test group. Enter a description of the energy storage device for this test group if | Submission/Certi ficationInformati onDetails/Hybrid Electric/VehicleF uelCellDetails CertificationData Submission/Certi ficationInformati | gyStorageDeviceOt | | | A(2) A(30) | Enumetatio n String | 4 | 30 | | | | | B = Balany(n) B = Capacitor RC = Reservant Capacitor RC = Office Of = Office | Light Duty Certification | | Manufact unar Manufact unar | Front | XML XML | Delete LD-CERT-TG-BR941 Update LD-CERT-TG-BR956 Add LD-CERT-TG-BR129 | Angeled Folce Garrer (19-7) (September 197) 4 Hyper Houses, Chrone (19-7) (September 19-6) McGarrer (19-7) (September 19-6) (September 19-6) September 19-6 - Self (September 19-6) September 19-6 - Self (September 19-6) Registrat 21-6 - Self (September 19-6) Registrat 21-6 - Self (September 19-6) September 19-6 - Self (September 19-6) Registrat 21-6 - Self (September 19-6) September 19-6 - Self |
| TG-78 | Rechargeable Energy Storage System-Dovise Rechargeable Energy Storage Device if Other | Enter the applicable type of energy storage device for this test group. Enter a description of the energy storage device for this test group if | Submission/Certi ficationInformati onDetailsHybrid ElectricVahicleF uelCeIIDetails Submission/Certi ficationInformati onDetailsHybrid ElectricVahicleF uelCeIIDetailsHybrid ElectricVahicleF | gyStorageDeviceOt | FALSE | Once perseat group. | | Enumeratio p String Enumeratio | 1 | 30 | | | | | LA = Lead Add NRMH = NMH U = Lithium fon | Light Duty Certification | | Manufact unar Manufact | Front End 3 | XML | Delete LD-CERT-TG-BR941 Update LD-CERT-TG-BR956 Add LD-CERT-TG-BR129 | Required if Drive Source (TG-7.1) equals 'EM' (Electric Motor) or if hybrid Indicator (TG-7.2) equals yes' or if Fuel Call Indicator (TG-7.8) equals 'yes', otherwise not allowed. |
| | Rechargeable Energy Storage System Device Rechargeable Energy | Enter the applicable type of energy aborage device for this test group. Enter a description of the energy to crage device for this test group if "other" selected. | Submission/Certi ficationInformati onDetails/Hybrid Electric/VehicleF uelCeIIDetails Certification/Deta Submission/Certi ficationInformati onDetails/Hybrid Electric/VehicleF uelCeIIDetails/B | gyStorageDeviceOt | FALSE | | A(2) A(30) A(4) | Enumenatio n Steing Enumenatio | 1 | 30 | | | | | LA = Lead Acid NMM = NMM | Light Duty Certification | | Manufact unar Manufact unar Manufact unar | Front | XML XML | Dukes LDCERTTO-BR641 Update LDCERTTO-BR684 Add LDCERTTO-BR685 Add LDCERTTO-BR62 Update LDCERTTO-BR686 Add LDCERTTO-BR686 | Angenerated Daves Science (15: 7:1) equation, Tetr (December and Con- generated Daves Science (15: 7:1) equation, Tetr (December and Con- budiestic (15: 7:3) equation (16: 7:1) Angenerated Tetr (16: 7:1) equations (16: 7:1) equations (16: 7:1) Angenerated Tetr (16: 7:1) equations (16: 7:1) equations (16: 7:1) Angenerated Tetr (16: 7:1) equations |
| TG-78 TG-79 | Rechargeable Energy Storage System-Device Rechargeable Energy Storage Device II Other Battery Type | Enter the applicable type of energy aproace device for this test group. Enter a descliption of the energy aroage devices for his test group if "other" elected. Enter the applicable type of battery for this test group. | Submission/Certi ficationInformati onDetailsHybrid ElectricVahicleF uelCeIIDetails Submission/Certi ficationInformati onDetailsHybrid ElectricVahicleF uelCeIIDetailsHybrid ElectricVahicleF | gyStorageDeviceOt | FALSE | Once per tell group. | | Enumenatio n String Enumenatio | 1 | 30 | | | | | LA = Lead Add NRMH = NMH U = Lithium fon | Light Duty Certification | | Manufact uner Manufact uner Manufact | Front End 3 | XML . | Detes LD-CRTT0-BR94 Use LD-CRTT0-BR94 Ad LD-CRTT0-BR94 Use LD-CRTT0-BR94 Ad LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 Add LD-CRTT0-BR94 | Angeled Folce Garrer (19-7) (September 197) 4 Hyper Houses, Chrone (19-7) (September 19-6) McGarrer (19-7) (September 19-6) (September 19-6) September 19-6 - Self (September 19-6) September 19-6 - Self (September 19-6) Registrat 21-6 - Self (September 19-6) Registrat 21-6 - Self (September 19-6) September 19-6 - Self (September 19-6) Registrat 21-6 - Self (September 19-6) September 19-6 - Self |
| TG-78 | Rechargeable Energy Storage System-Dovise Rechargeable Energy Storage Device if Other | Enter the applicable type of applicable type of applicable type of group. Enter a description of the entery assage device for rother electronic control electronic protection electronic assarcy for in last applicable type of applicable type of applicable type of applicable type of applicable type of applicable type of applicable type of the battery for the battery for all controls as a special type of the battery for all controls as the battery for all controls as the battery for all controls as the battery for all controls as the batter | Submission/Certi ficationInformati onDetailsHybrid ElectricVahicleF uelCeIIDetails Submission/Certi ficationInformati onDetailsHybrid ElectricVahicleF uelCeIIDetailsHybrid ElectricVahicleF | gyStorageDeviceOt | FALSE | Once perseat group. | | Enumenatio n Boling Enumenatio n Steing | 1 | 30 | | | | | LA = Lead Add NRMH = NMH U = Lithium fon | Light Duty Certification | | Manufact uner Manufact uner Manufact uner | Front End 3 | XML Control Co | Dukes LDCERTTO-BR641 Update LDCERTTO-BR684 Add LDCERTTO-BR685 Add LDCERTTO-BR62 Update LDCERTTO-BR686 Add LDCERTTO-BR686 | Angenerated Daves Science (15: 7:1) equation, Tetr (December and Con- generated Daves Science (15: 7:1) equation, Tetr (December and Con- budiestic (15: 7:3) equation (16: 7:1) Angenerated Tetr (16: 7:1) equations (16: 7:1) equations (16: 7:1) Angenerated Tetr (16: 7:1) equations (16: 7:1) equations (16: 7:1) Angenerated Tetr (16: 7:1) equations |
| TG-78 TG-79 | Rechargeable Energy Storage System-Device Rechargeable Energy Storage Device II Other Battery Type | Enter the applicable type of applicable type of applicable type of group. Enter a description of the entery assage device for rother electronic control electronic protection electronic assarcy for in last applicable type of applicable type of applicable type of applicable type of applicable type of applicable type of applicable type of the battery for the battery for all controls as a special type of the battery for all controls as the battery for all controls as the battery for all controls as the battery for all controls as the batter | Submission/Centi fication/Internation/Centi enderatishtybrid Electric/vehicleF uel/Cell/Details Submission/Centi fication/Internation/Centi fication/Internation/Centi enderatishtybrid Electric/vehicleF uel/Cell/Details BatterySpecification/Data Butterission/Centi fication/Internation/Details Electric/vehicleF uel/Cell/Details atterySpecification/Data atterySpecification/Data interpecification/Data interpecification/Data interpecification/Data interpecification/Data | gyStorageDeviceOt | FALSE | Once per tell group. | | Enumenatio n Enumenatio n Steing | 1 | 30 | | | | | LA = Lead Add NRMH = NMH U = Lithium fon | Light Duty Certification | | Manufact uner Manufact uner Manufact | Front End Front End | XML SXML SXML SXML SXML SXML SXML SXML S | Control LOCATION AND A CONTROL | Angenerated Daves Science (15: 7:1) equation, Tetr (December and Con- generated Daves Science (15: 7:1) equation, Tetr (December and Con- budiestic (15: 7:3) equation (16: 7:1) Angenerated Tetr (16: 7:1) equations (16: 7:1) equations (16: 7:1) Angenerated Tetr (16: 7:1) equations (16: 7:1) equations (16: 7:1) Angenerated Tetr (16: 7:1) equations |
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| TG-200.5 Certificat | Select the applicable certification | s stEmissionsSta | ati iu | TRUE | Tast Group + Cartification Region Code + Cartification/Itulae Code + Vehicle Class + Exhaus Emission Standard Lavel Fuel + Tee Procedure + Useful Life + Emission Name identifies a unique set of exhaust standard DP info. 1_n | A(2) | Enumeratio | | | | | | $C=Cartification \\ H=to Iae \\ B=0.0 m \\ H$ | Light Duty | Certification | Ada | nufact F | Fiont X | GML | Updats LD-CERTTO-BR044b Updats LD-CERTTO-BR044c Updats LD-CERTTO-BR0465b Updats LD-CERTTO-BR046 | |
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| TG-204 Fuel | Select the applicable this enhance and | CertificationD Submission/Cr ficationInform fuel for arEmissionsSta dardDetails | ati i | TRUE | Test Group + Cartification Region Code + Cartification/InUae Code + Vahitel Class + Eshaus Emission Standard Level Fuel + Tee Procedure + Usafut Life + Emission Name identifica a unique set of exhaust standaed/DF info. 1_n | 4 A(3) | Enumeratio n | | | | | | 0 - Casoline 0 - Methanol VM-Induced - Compressed Natural Cas CN0 - Compressed Natural Cas - Compressed Natural Cas LPG - Liquid Peroteom Cas - Hydrogen H - Hydrogen - Hydrogen Min - Methorgen - Hydrogen Min - Methorgen - Hydrogen | Light Duty | Certification | | outor 5 | Front End X | GML | Add LD-CERT-TG-IB002c | |
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| Emission Standa TG-211 Value | This is a system- generated numering field based on converting the text value emend by the manufactury for "Emission Standard Value (2004) (20.2021) | c t CertificationData Submission/Certi ficationInformati onDetails/EPAG eneratedCertific priceOptonic | EmissionStandard Value | TRUE | 11 for each unique set of exhaust standard/DF info. | N(7,4) | Decimal | | | 7 4 0 | 999.9999 | , | | Light Duty | Certification | | Bi | acken d Assigne | a | |
| Emission Standa TG-212 Value (Text) | enter me applicable numeri value for this exhaust standard name including any additional digits that are necessary for proper rounding. | c CertificationData Submission/Certi ficationInformati onDetailsE thau sEmissionsStan dardDetails | ExhaustEmissionsS tandatdValueText | TRUE | 11 for each unique set of schaust standard/DF info. | A(8) | Numeric string | | | | | | | Light Duty | Certification | | Manufact F uner | Front End XML | | |
| Exhaust Deterior TG-208 Factor Type | Select the applicable deterioration facto type for this exhaust standard name. | onDatails/Exhau stEmissionsStan | DeteriorationFactor TypeIdentifier | TRUE | 11 for each unique set of exhaust standard/DF info. | A(4) | Enumeratio n | | | | | A E A A | MFRA = Mfr. Assigned EPAA = EPA Assigned MFRO = Mfr. Determined AGED = Aged components installed in the emission data vehicle | Light Duty | Certification | | Manufact F uner | Front End XML | | |
| Using NMOG/NM TG-208 Ratio? | If applicable, enter the value for the | CentificationData Submission/Centi ficationInformati onDetails/Exhau o sE missiondStan dardDetails Centification/Data r Submission/Centi ficationInformati | NMOGToNMHCRat ioIndicator | FALSE | 11 for each unique set of exhaust standard/DF info. | A(1) | Enumeratio n | | | | | 1 | Y = Yes N = No | Light Duty | Certification | | Manufact F uner | Front End XML | | |
| TG-207 Ratio of NMOG/N | for this exhaust | | NMOGToNMHCRat ioValue | FALSE | 11 for each unique set of exhaust standard/DF info. | N(3.2) | Decimal | | | 3 2 0.00 | 9.99 | | | Light Duty | Certification | | | front End XML | | |
| T0.214 Additive DF | MHC standard name. If applicable, enter the additive detentionation factor (D) value for this exhaust standard name. If applicable, enter the multiplicative detentionation factor (D) value to this softward standard name. | ficationInformati onDetails/Exhau stEmissionStan dardDetails rr CentificationData Submission/Centi ficationInformati onDetails/Exhau stEmissionsStan dardDetails | AdditiveCetenorati onFactorValue MultiplicativeDeter iorationFactorValu e | FALSE | 11 for each unique set of exhaust standard/DF info. 11 for each unique set of exhaust standard/DF info. | N(7.6) | Decimal | | | 7 6 0 4 3 1 | 9.999999 | , | | Light Duty | Certification | | | itont XML | | |
| Upward Dissel TG-215.5 Adjustment Fact | If applicable, ente the upward diesel adjustment factor value for this exhaust standard | r CertificationData Submission/Certi ficationInformati onDetails/Exhau sEmissionsStan | UpwardDiesel Adjus tmentFactor | FALSE | 11 for each unique set of exhaust standard/DF info. | N(7,6) | Decimal | | | 7 6 -0.99995 | | , | | Light Duty | Certification | | Manufact F uner | iont End XML | LD-CERT-TG-BR077 | Required if Fuel (TG-304)= 17 (diseet), otherwise optional. |
| Downward Diess Adjustment Facts | If applicable, ente the reactivity facto for this exhaust | CertificationData Submission/Certi in ficationInformati in onDetails/Exhau stEmissionsStan | DownwardDieselAd justmentFactor ReactivityFactorVal | FALSE | 11 for each unique set of exhaust standard/DF info. 11 for each unique set of exhaust standard/DF info. | N(7,6) | Decimal | | | 7 6 -9.99995 | | , | | Light Duty | | ve for NRICG, Mathana. | Manulact F | itont End XML | LD-CERT-TG-BR078 | Required if Fuel (TG-204)= 'D' (dissel), otherwise optional. |
| TG-216 Reactivity Factor Exhaust@vapor Emission Standa TG-220 Comments | (RAF) standard name. Enter any additional comments for the exhaust or evaporative stative standards for this test gloup. | dardDetails CertificationData Submission/Certi ficationInformati onDetails | ue EmissionStandard CommentText | FALSE | 1 pertest group. | N(5) A(1000) | Integer | 1 10 | 100 | 0 | 99,999 | | | Light Duty | Certification | None: for Twe 2 (Bin 1-11) emissions it will be defaulted to 1.0 for NMOG and 0.0 for Methane | | End XML | | |
| Evaporative and Evaporative/Ref TG-3 Family Name | Enter all applicable | ards and Cert Levs CertificationData Submission.CertificationInside TicationInformationData i ationDatails/Certific i ationDatails/Certific i ationDatails/Certific | is Entered For Each EvaporativeRefueli ngFamilyName | FALSE | jein Code Test Group + Evap Family + Evap Centification Region Code + Centification Nutae Code + Evap Emission Standard Level + Foal Test Phocedum + Useful Life + Emission Name eidentifies a unique set of evap standard/DF info. 0.n | A(12) | String | 12 1 | (A-HJ- NPR- TV-Y1- 9](1)[A- 20- 9](4)[0- 9](4)[A- 20- 2 9](3) | | | | | Light Duty | Certification | | Manufact F uner | iont End XML | LD.CERT.TG.BR084 LD.CERT.TG.BR000 LD.CERT.TG.BR104 | from Family model year must be convert year through convert year + 2. |
| Cartification Reg TG-221 Code | Select the applicable certification region codes for this exponsitive standard. | CertificationData Submission/Certi ficationInformati onDatalit/Certific ationEvapotative InformationData IsfEvapotativeE missionsStandar dDataits | CertificationRegion Code | FALSE | Test Group + Evap Family + Evap Carification Region Code + Certification Mulae Code + Evap Emission Bandard Level + Fael Heat Proceedure + Useful Life + Emission Name evap standard/DF info. 0.n Test Group + Evap Family + Evap | r | Enumeratio n | | | | | C F | DA = California + CAA Section 177 states FA = Federal | Light Duty | Certification | | Manufact F uner | Front End XML | LD.CERT.T.O.BR005a LD.CERT.T.O.BR005b | |
| TG-221.5 Certification/In-U | Select the applicable certification/in-use code for this evaporative standard. | Certification/Data Submission/Certific ation/Informati on/Details/Certific ation/Evaponative Information/Detail Is/Evaponative missions/Standar d/Datails | CentificationInUseC ode | FALSE | 0.n Test Group + Evap Family + Evap Centification Region Code + Centification Mulae Code + Evap Emission Standard Level + Seal + Standard Level + Seal + Life + Emission Name identifies a unique set of evap standard/DF info. 0.n | e f A(2) | Enumeratio | | | | | C I E | C = Cartification U = In-Use B = Both | Light Duty | Certification | | Manufact F | iont End XML | | |

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| | 6/4/2012 |

| EPA Date Element Number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Min Description Length | Max. Lengt h Patterr | Total Fractio Digits al Digi | n Is Min Value | Max Value | Allowed Values | Industry | Process | Nonear Durations | Originato r Point | Collectio n Type | Applicable Business Rules | Validation Rules |
|-------------------------------|--|---|---|---|----------|--|-----------------------|-------------------------------------|--|---------------------------------|-------------------|-----------|--|------------|---------------|---|----------------------------|---------------------|---|--|
| Test Group Info | Si isi survertive/Refueling | elect the pplicable andard level for is evaporative andard. | CertificationData Submission.Certi ficationInformati ationEvaporative InformationDatai Ist [®] vaporative InformationDatai Ist [®] vaporativa Ist [®] vaporativa | EvaporativeEmissi onsStandardLevell dentifier | FALSE | Test Group + Evap Family + Evap Centification Region Cod + Centification flue Code + Evap Emission Standard Level + Foal + Test Procedure + Usahl Life + Emission Name dentifisa unique sat ce evap standard/DF info. 0.n | e 1 51 A(4) | Enumeratio | | | | | T1 - Fiedenial Tier 1 Evap T2 - Fiedenial Tier 2 Evap F2 - Fiedenial Lov-II Evap C2 - OL 125/41 Evap Evap Evap Evap Evap Evap Evap Evap Evap Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap Evap (1.4) Evap (1.4 | Light Duty | Certification | T1 previously safuld EMMA in CPEIS | Manufact Front uner End | XML | | |
| T0.423 Fuel | 5. 14 18 18 | elect the pplicable fuel for is evaporative andard. | Certification/Data Submission/Certific ation/Information/Datails/Certific ationEvapotative Information/Datail IsEvaporativeE missions/Standar d/Datails | Fuelldentifier | FALSE | Test Group + Evap Family + Evap Carification Region Cod + Certification(truba Code + Evap Emission Standard Level + Fael + Test Procedure + Used) Life + Emission Name identifies a unique set evap standard/DF info. 0.n | A(3) | Enumeratio | | | | | Gasoline Gasoline Gasoline Hoteland | Light Duty | Certification | | Manufact Front unar End | XML | Add LD-CERT-T0-IB002d | |
| 16-223.5 Teat 1 | E iq Procedure e | nter the opticable test supports/ve mission and/add | CertificationData SubmisionCerti Tistatortiformati InformationData Taticapostavice Taticapostavice Taticapostavice Othanita | TeaPhocadumiden Ster | FALSE | Tas Gouge + Evip Family - Evip Castification Region Code - Castification Multi Bandard Lavie - Fall Bandard Lavie - Fall Lite - Emission Name - International Con- ternational Con- ternational Con- Co.n. | N/D) | Enumeratio | | | | | | Light-Duty | Certification | | Manufact Fiont untr end | XML | Duiss LD-CERT-70-88994 | |
| TG-223.6 Usefu | S, aş or ul Life Mileage a; | elect the pplicable useful e mileage for this vaporative andard. | CertificationData Submission/Certi ficationInformati onDataila/Certific ationEvaporative InformationDatai Is/Evaporatives Is/Evaporatives dissiondStandar dDatails | Useful LifeMileagel dentilier | FALSE | Carffication Region Cod Family + Evap Family + Evap - Centification Region Cod + CentificationNuture Code + Evap Emission Standard Level + Ford + Test Procedure + Useful Life + Emission Name elevap standard/DF info. 0.n | le 1 01 N(3) | Enumeratio | | | | | 4 = 4.000 miles 50 = 50.000 miles 100 = 100.000 miles 120 = 120.000 miles 130 = 150.000 miles | Light Duty | Certification | | Manufact Front uner End | XML | LD-CERT-TG-BR095c | |
| TG-225 Name | Result/Emission th e st | elect the oplicable mission name for is evapoutive andard. | CartificationData Submisidon/Cartification/Cartific Tasciontiformatic InformationDatai InformationDatai InformationDatai | Teaßeuridendife | FALSE | Ted Group + Exip Family + Exip Centification Region Code - Centification Muta Code - Exip Emission Code - Exip Emission Test Poscedure + Usekit Like - Emission Name - Anno - Code - State - Code - Co | i | Enumaissio A | | | | | n (1)) (1)) (2)) (2)) (2)) (2)) (2)) (2)) (2)) (2)) (2)) (2)) | Light Duty | Certification | CREE and OpcCREE or not valid values have. Need to add's business rule that doesn't after CREE or OpcCREE to be unseend have a se standard or Gr. | Manufast Fiort utr End | XML | Add LDCERT 70 BRIGS LDCERT 70 BRIGS LDCERT 70 BRIGS LDCERT 70 BRIGS LDCERT 70 BRIGS LDCERT 70 BRIGS LDCERT 70 BRIGS | NEXP The following values for Test Result/Settation Name (10.525) are not valid. CREEF, Contract-Marine Data and Enstation. Next Next Segure Sector Next Sector Sector Sector Sector Sector Next Next Sector Sector Next Sector Sector Sector Sector Sector Next Next Sector Next Next Sector Sector Sector Sector Sector Next Next Sector Next Next Sector Sector Sector Sector Sector Next Next Next Next Next Next Next Next |
| Evap TG-228 Stanc | 94 fisi co st th borative Emission dard Value | his is a system- enerated numeric ald based on onverting the text alue entered by the manufacturer or "Evaporative mission Standard alue (Text)" (TG- 26.5). | CertificationData Submission/Certi ficationInformati onDetails/EPAG enerasedCertific ationDetails | Evaporative Emissi onsStandardValue | FALSE | 11 for each unique set of evap standard/DF info | t. N(7,4) | Decimal | ([0- 9][1,3] 9][1,4] 9][1,4] 9][1,4] 9][1,4] 9][1,4] 9][1,4] 9][1,3] 9][1,3] 9][1,3] | 7 4 | 0.0000 | 999,9999 | | Light Duty | Certification | teen. The quark dual agont the entry of emails attribute to the user and may additionally which due to the entry of PAA is applicable standards. Your emails to addition to addition | Back Varity End | Assigned | | |
| TG-226.5 Star | Finite second se | Inter the pplicable numeric alue for this vaporative andard name icluding any dditional digits nat are necessary or proper sunding. | CertificationData SubmissionCertific ationInformati onDatails/Certific ationEvaporative InformationDatai Ia/EvaporativeE missionsStandar dDatails CertificationData | EvapolativeEmissi ordStandardValue Text | | 11 for each unique set of evap standard/DF info | | String | | | | | | | | | Manufact Front ver End | XML | | |
| Ev ap Deter TG-222 Type | Si ap de borative by rioration Factor au | elect the pplicable eterioration factor pe for this vaporative anderd. | Submission/Certific ficationInformati onDetails/Certific ationEvaporative InformationDetai Is/EvaporativeE missionsStandar dDetails | DeteriorationFactor TypeIdentifier | FALSE | 11 for each unique set of evap standard/OF info | t 5. A(4) | Enumeratio | | | | | MFRA = Mfr. Assigned EPAA = EPA Assigned MFRD = Mfr. Determined AGED = Aged components installed in the emission data vehicle | Light Duty | Certification | | Manufact Front uner End | XML | | |
| TG-227 Addit | | nter the additive eterioristion ictor (DF) value or this evaporative anderd name. | CertificationData Submission/Certi ficationInformati onDatails/Certific ationEvaporative InformationDatai Is/EvaporativeE missionsStandar dDatails | | | 11 for each unique set of evap standard/DF info | | Decimal | | 7 6 | 0 | 9.999999 | | Light Duty | Certification | | Manufact Front uner End | | | |

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| EPA Data Element Number | Long Name | Description | Parent's Name | XML Teg | Required | Multiplicity | Basic Data Type | Data Type Description | Min Length | Max engt h Pattern Dig | al Fraction its al Digits | Min Value | Max Value | Allowed Values | Industry | Process | NotedQuestions | Originato r | Collecti on Point | Collectio n Type | Applicable Business Rules | Velidation Rules |
|-------------------------------|---|--|---|--|------------|--|-----------------------|--------------------------|---------------|------------------------------|------------------------------|-----------|-----------|---|------------|---------------|--|------------------|-------------------------|---------------------|--|---|
| | | Internet applicable supplicable stat and the second state proup lowsporative saminy combination. This is a unique numbe sagined by Varify bi identify this set of sati info and satistic. Character 1 is the Model Vaar the tat was celiginally run for, Characters 2 - 5 at the Mandacturer 1 cable. Character 1 2 are the satistic. Character 1 2 are the satistic. Character 1 2 are the satistic. Character the satistic. Charact | e CentificationDate Buchnission.Centi FicationAnomati - onDatalisCentific - andDatalisCentific - andDatalisCentifi | T eztřemberidentif er | 1 TRUE | LA | A(12) | String | 12 | 12 | | | | | Light Duty | Certification | | Manufact | Front End | XML | LD-CERT-TO BROKS LD-CERT-TO BROKS | Af provided teal numbers must exist in Yanty, |
| 16-202.5 | Echaust Test Number | applicable exhause any any any any applicable exhause mumbers for this is a unique number assigned by Verify to identif his act of test into and results. Characters 1 is the Model Year the hast was originally un for, Characters 2 - 5 are the Manufacturer code followed by a data Manufacturer code followed by a data for the sequential exhause the sequential ext number, if it begins with 3 its as any mumber, if is begins with 3 its as any any any applicable of the number is a | y c. Davisi i cation Data Submi saion. Cani ficationinformat o nDutalise Aua alf cationibarDat pila Netern Dutalise Netern Dutalise | TestNumberidentif er | TRUE | 1.6 | A(12) | String | 12 | 12 | | | | | Light Duty | Certification | | Manufact | Front | XML | LD-CERT-TG-BR088 LD-CERT-TG-BR091 | Al povidad kar numban mur axir in Verly. |
| NEW T0-216.7 | OHO Exempt Status | Select the applicable greenhouse gas examption status for this fast group gar 40 CFR 86.1601-12. (i) SBA examption, (*) conditional examption, | oupIdentification Details | GreenhouseGasE xemptitatusIdenti iar | i FALSE | 1 for each test group | A(J) | Enumeratio | | | | | | NE = Not Exempt SBA - Social Scales & Administration CE = Conditional Exemption | Light Duty | Certification | The pull-drawn flat should be displayed in this order: MC, BBA, CE. This field and a distantial as which a Varia y ack values CREE and adjusted CREE and descenses and which the ScH Oungebra ME should be sho | Manufact urer | Front | XML | Add LD-CERTID-B004 Add LD-CERTID-B0172 | |
| | | | CartificationData Submission/Certi ficationInformati onDetails/Suppl ementalFederal TestProcedureC | 0 | | | | | | | | | | N. 16-2 | | | | Manufact | | | | |
| | SFIP Compliance Indicator SFIP Composite CO Option | | alculationDetails CertificationData Submission/Certi ficationInformati onDetails/Suppl ementalFederal TestProcedureC alculationDetails | or CompositeCOOptic | FALSE | 1 for each test group | A(1) | n Enumeratio | | | | | | Y = Yes N = No Y = Yés N = No | Light Duty | Certification | | urer Manufact | End Front End | XML | Update LD-CERT-TG-BR061 | |
| 10-217 | Official FTP seat number | Enter the Test Number of the official FTP tost for this test groups and optionally for CO- | Certification/Data Submission/Certi fication/formati oup/dentification Datait/sGaenho uss/GazOficialT estNumber/Datait s | FTPTestNumber | TRUE | Once per Test Group Fuel (10-217.1) per test | 4(12) | String | 12 | 12 | | | | | Light Duty | Certification | | Manufact | Florit | XML | LD-CERT-TG-BR057 Detris LD-CERT-TG-BR059 Update LD-CERT-TG-BR059 Update LD-CERT-TG-BR050 Update LD-CERT-TG-BR050 Update LD-CERT-TG-BR050 Update LD-CERT-TG-BR050 Add LD-CERT-TG-BR050 Add LD-CERT-TG-BR050 Add LD-CERT-TG-BR050 | A SETE Compliance indicates in TV-, down this field di- magnetic. VEX: All provided test methods must tails in Verify. NEX: The Tost S-Optic Category (Tx-5) of the sate entered in Optical IP Tost testimate (Tx-1) must equal TPTF . Were the setE of the testimate of the testimate of the testimate for the setE categories of the testimate of the testimate for the setE categories of the testimate of the testimate for the setE categories of the testimate of the testimate for the setE categories of the testimate of the testimate for the setE categories of the testimate of the testimate for the setE categories of the testimate of the testimate of the testimate of the testimate of the testimate of the testimate of the testimate of the testimate of the testimate of the testimate of the testimate of the registrate. |
| New: TG-217.1 | Test Group Fuel | Select the applicable fuels for each test group | CertificationData Submission/Certi ficationInformati onDetails/TestGr oupidentification Details/Gssenho usaGasOfficialT exNumberDetail S | Fuelldentifier | | | | Enumeratio | | | | | | b - Olessi M - Merjanol E - Ethanol CNO - Compressed Natural Gas LNO - Liquifed Natural Gas LNO - Liquifer Deroleum Gas H - Hydrogen EL - Electrickty M Not regelective | Light Duty | Certification | | Manufact | Front | XML | Add LD-CERT-TG-88052b Add LD-CERT-TG-88158 Add LD-CERT-TG-88159 LD-CERT-TG-88159 | |
| TG-218 | Official USOR Test Number (Jac SiTPi- compression - sales) | Enter the Test Number of the official USO6 test for this USO6 test must have split has fuel economy results. precident most for- balletCoNOmand- optionally de CO- | CertificationData Submission:Certi ficationInformati onDetailsTestGr oupdentification DatailsGisenbr useGa20ficial s | US06TestNamber | FALSE | Once per Test Group Fuel (10-217-1) per test group | 4(12) | String | 12 | 12 | | | | | Light Duty | Certification | | Manufact | Front End | XML | LD-CERT.TO-BR067 Defans LD-CERT.TO-BR069 Defans LD-CERT.TO-BR069 Update LD-CERT.TO-BR063 Update LD-CERT.TO-BR063 Add LD-CERT.TO-BR063 Add LD-CERT.TO-BR063 | B BETR Complement indexem 14-17, que dia du fanis explorat. NEV Al provide las muniters must exist in Venfy. Vel VIII Neu Sec Schoogeny (1645) di ante estant in Oficial URS has interer (192-18) must estat VERSI Vel VIII Neu Sec Schoogen (1645) di ante estat in Original URS has interer (192-18) must estat VERSI Neum or 12 Bag 17 and 178 Bag 27. Neuto and pada basistas rules for when dis official tas muniters in regénes. |
| TG-219 | Official SCO3 Test Number dus SETP. composite.cate.) | Enter the Test Number of the official SOO3 test for this test group procedure used for NMHC-NOs- and optionally for CO | CertificationData Submission/Certi ficationInformati onDetails/TestOr oup/dentification Details/Gisenho useGasOfficialT estNumberDetail \$ | SC03TestNumber | FALSE | Once per Test Group Fuel (10-217.1) per test group | A(12) | String | 12 | 12 | | | | | Light Duty | Certification | | Manufact | Front End | XML | Update LD-CERT10-BR682c Update LD-CERT10-BR683c Update LD-CERT10-BR683c Add LD-CERT10-BR146 Add LD-CERT10-BR147 | 8.6739. Compliance Indiversita 10.77, dan his faid lé- napital. Al provided last numbers must exist in Yarify. The Tast 5-Cycle Category (78-53) of the tast entered in Official 503 Tast Number (10-13) must equal 1503 ¹⁵ Nace's add business rules for when this official tast number is regarded. |



r Point

Verify Light-Duty Data Requirements with Greenhouse Gas updates

Process

XML Tag

ong Name

EPA Data Element

Basic Data Data Type Type Description

Min Lengt

Max Value

| | | | | | | | 1 | 1 | | | _ | | | | | | | | - | | | |
|----------------------|--|--|---|--|------------|---|---------------|--------------------------|-----------|------------|----------------|-----------|---|---|------------|---------------|---|--------------|----------------------|---------------------|----------------------------|---|
| EPA Dete | | Duratation | Description of | XML Tag | De avier d | March 1976 | Basic Data | Data Type Description | Min Lengt | Tota | al Fraction | No. Makes | | All sound Market | la da ma | 0 | No. Water and the second s | Origina | o <u>on</u> Point | Collectio n Type | | |
| Number Test Group | Long Name o Information | Verify-calcalated | a Submission/Ce | <u>ANC Tag</u> | Required | arcopheny | Type | Description L | angin n | Panem Cigi | its a bigits i | win value | Max value | ADDING VIENS | industry | PIOCES | roles duration | | Point | n type | Applicable Boartica Policy | Validation Polies |
| NEW T0-8.5 | Verify-calculated Combined Test Group CREE Certification Leve (Per Test Group Fuel) | combined (city- 55% and highway- 45%) test group CREE certification level for each fuel with 120k DFs applicable to each emission name in at the separate official city and Verify-calcalated | reficationInform ationDetails/EP AGeneratedCert ificationDetails/ EPAGeneratedG reanhouseGasD etails/EPAGene ratedCombinedT estGroupCertific ationLevelDetail s aSubmission/Ce | CombinedTestOro upCarbonRelatedE xhaustEmissionC ertificationLevelN umber | FALSE | Once per Test Group Fuel (TG-217.1) per test group | N(4) | Inseger | | | | 0 | 2223 | | Light-Duty | Certification | See equations for Combined Test Group CREEGys CREE on the P1-CREE Cales tab. Next to add Test Group CREE to LD CB Report. This date element is supported in the future Release. | Verify | Back End | Assigned | | |
| NEW TG-8.5.1 | Verify-calculated Combined Test Group Opt-CREE Certification Level (Per Test Group Fuel) | combined (city- 55% and highway- 45%) test group CREE certification level for each fuel with 120k DFs applicable to each emission name in the separate official city and | rtificationInform ationDetails/EP AGeneratedCert ificationDetails/ EPAGeneratedG reenhouseGasD etails/EPAGene ratedCombinedT estGroupCertific ationLevelDetail 5 | CombinedTestOro upOptionalCarbon RelatedExhaustE missionCertificati onLevelNumber | FALSE | Once per Test Group Fuel (TG-217.1) per test group | N(4) | Inseger | | | | 0 | 2223 | | Light-Duty | Certification | See equations for Combined Test Group CREEGys CREE on the P1-CREE Cales tab. Next to add Test Group CREE to LD CB Report. This date element is supported in the future Release. | Verify | Back End | Assigned | | |
| NEW TG-8.6 | Discrepancy between Verify and Manufacturer calculated Combined Tast Groop CREE (Per Test Groop Fuel) | The Verily- calculated discrepancy batween manufacturer and Verify-actuated combined test group CREE Cartification Level. | CertificationDat a Submission/Ce rtificationInform ationDetails/EP AGenerate/Certific ationDetails/ EP AGenerated Creathouse GasD reachouse GasD ratedCombinedT estOroupCertific ationLevelDetail s | Combine dTestGro upCarbonRelate dE xhaustEmissionC ertificationLev eDi screpancy(Numbe r | FALSE | 1 per fael per Test Group | 5 N(4) | Integer | | | | 0 | 9999 | | Light-Duty | Certification | | Verify | Back End | Assigned | | |
| NEW TG-8.6.1 | Discrepancy between Verify and Manufacturer calculated Combined Test Group DurcREE (Per Test Group Feat) Exhaust Emission Cerri | The Verify- calculated discrepancy batween manufacturer and Verify-calculated combined test combined test combined test combined test carbification Level. | CertificationDat asbamission/Co rificationInform ationDetailszP EPAGeneratedCert ificationDetails/ EPAGeneratedCo etails/EPAGene ratedCombinedT est0roupCertific ationLevelDetail S | Combine dTestOro upOptionalCarbon Relate dE xhaustE missionCertificati onLeve Discrepan cylNumber | FALSE | 2 per fuel per Test Group | 2 N(4) | Integer | | | | 0 | 9399 | | Light-Duty | Certification | | Verify | Back End | Assigned | | |
| | Canadist Emission Cert | Verify will round | | | | | | | | | | | | | | | | 1 | | | | |
| <u>TG-212.9</u> | Rounded Emission Result | the unconded test souths for each CSI and number/emission name combination to the same number of digits as the corresponding emission standard plus ane digit. Each rounded result will then have the DF applied to calculate the official centification levels. | CentificationData Submission/Centi ficationInformati onDetailstEPAQ eneratedCentific ationDetailstEPA GeneratedExhau stEmissionCentifi Is | Rounded Emission ResultValue | TRUE | 1 for each provided unrounded emission scalit (via teat unmber) fo which a corresponding emission standard is provided on the CSI. | r N(11,7) | Decimal | | 11 | 7 | 0 | 9999 3999999 | | Light Duty | Certification | Muir av ASTM suunding methodology | Veify | Back End | Assigned | | |
| TG-213 | Certification Level | Verify-calculated certification levels for all applicable Test Results/Emission Names | CertificationData Submission/Certi ficationInformati onDatails/EPAG eneratedCertific ation/Details/EPA GeneratedExhau stEmissionCertifi cationLevelDetai Is | CalculatedCettifica tionLevelValue | TRUE | 1 for each calculated Rounded Emission Resul | t N(8,4) | Decimal | | 8 | 4 | 0 | 9999.9999 (note-one additional digit was added to the left of the decimal) | | Light Duty | Certification | Verdly should calculate out levels | Veify | Back End | Assigned | | |
| T6-213.5 | Criteria Pollutard PasaFal Indicator Evap Emission Cent Las | Verify will compare the Calculated Can Laval with the consponding standard and will at the Pass/Fail the Calculated the Calculated Can Lavel is less than or equal to the standard, otherwise it will be a issued for any CSIs that contain a "CSIs that contain a "CSIs that contain a CSIs t | CertificationData Submission/Certi ficationItemati enonDetails/EPAG eneratedCertific ationDetails/EPA GeneratedExhau stEmissionCortific cationLaveIDetai Is | CentificationPassFa illndicator | TRUE | 1 for each calculated Cert | t A(4) | Enumeratio | | | | | | Paia - Cat Lavel -= Standard Yali - Cat Lavel - Standard | Light Duty | Certification | Varily util compare the Calculated Carl Land with the some position paradiate and with an the Paraffair location or SP-Bar if the Calculated Carl Land visit Internet are equal to the standard manualise in this lase study of the Calculated Carl Land visit and Carl and Calculate SP-Bar if and the determined for CREEOpcCREE. | r. Verity | Back End | Assigned | | No unificates can be instead if a CD (the group hand) tentity and instead of the rest or a Particular Indextor of "Part" |
| 10-228 | | Verify will round the unrounded test scalars for each CSI and name combination name combination name combination to the same number of digits as the corresponding emission standard plus one digit. Each rounded scalar with than have the DF applied to calculate the dificial centification levels. | CertificationData Submission/Certi ficationInformati onDetails/EPAG enerated/Certific ationDetails/EPAG denerated/Exhau stEmissionConfili CationLevelDetail is | | TRUE | 1 for each provided unrounded emission result (via late number) wich a consequenting emission standard is provided on the CS1. | r N(11,7) | Decimal | | | 7 | | 9000,0000000 | | Light Duty | Certification | Muz va ASTM suvding mehodology | Veify | Back | Assigned | | |
| TG-229 | | Verify will calculate cert levels by applying the DF to each rounded emission result. | CertificationData Submission/Certi ficationInformati onDetails/EPAG eneratedCertific ationDetails/EPAG GeneratedExhau stEmissionCertifi cationLaveIDetai | | TRUE | 1 for each calculated Rounded Emission Resul | t N(8,4) | | | 8 | 4 | 0 | 9999.9999 (note-one additional digit was added to the left of the decimal) | | | | Verify should calculate cart levels. | Verity | Back End | Assigned | | |

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| Test Group Informa | ation | | | | | | | | | - | | | | | | | | | | |
|--------------------------|---|--|--|------------------------|--|----------------|----------------------|--------------|--------------------|-------|---|-----|---|------------|---------------|--|--------------------------|---------------------|--------------------------|--|
| | L cc s s s s f f f f s s s s s f f s s s s | effy will compare a Calculated Car preseption preseption and/and and will dicator to "Pasa" the Calculated an or equal to a sandard, nor equal to the Calculated Buther the Calculated the Calculated Buther the Calculated the Calculated Buther the Calculated the Calculated Buther the Calculated Bu | tCertific ails/EPA anCertifi varDentifi a illndicator | TRUE ouplev ap fami | 1 for each calculated Ce Lovel by combination (includes | | Enumeratio n | r for each r | required test cate | ogry. | | | Path - Car Loval - P Standard Fail - Car Loval - S Standard | Light Duty | | Yeahy will compare the Catachand Cast Level with the corresponding standard and will set the prevenue to will see to "Fait". A candidate will not be taken for any Cast the contents of Year. | Veify | Back End | Assigned | te conficues con la linear 14 e CB par grap (vag facili) embinates har even en er Parel ² el Indexier el "Par" |
| TG-203 Test Cate | an fil by 17 22 23 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25 | his field will stormatically be led based on the st procedure (in ceta* section) sociated with the st number. Certificat Submissi valid seat number (Ecasion) required for set test set t | de marcel | TRUE | 1 per test procedure | A(6) | Enumeratio | | | | | | FTP = Foldersi Tel Pocodore 1056 = 0056 8053 = 8053 EVA = Eugonative EVA = Eugonative COLO = - cuel CO SAPT = 5 princial: NOME = No. CO: Non-Tel Non- UBBINO = Ubbin Range MONDE = No. CO: Non-Tel Non- COLE = AC Lish Set CO: - County During | Light Duty | | The label all automatically as little based or the same procedure (in "Tast" action) associated with the same transmission of the same transmissio | feify | Back End | Pre- existing Data | |
| Carline M TG-300 code | E aj m Manulacturer g | Cartificat Bubmissi popicable cartie anufacturer alion: You das that will be informati unified for this test ls/Cantific top. sDatails | aCentific potative onDetai idModel EPAManufacturer | ; TRUE | 1 for each unique cobination of carline m code, division code, carline code, carl segior code, transmission tockup indicator, transmission lockup indicator, transmission ceseper gear indicator, transmission gear count drive system identifier | r - Α(3) | Fixed string | | (A-20- 9)(3) | | | | | Light Duty | | CadinaMir Code + Model Year + Division Code + Cadine Code Identify a unique cadine. The cadine mit code canvail be different than the mit code in TG-1 (Parent = Ted Geop Identification Divisit). | Aanufact urer | Front | XML | The specific protocol is different two the direction of the matching of the specific protocol is different two the direction of the address of the specific protocol is a specific protocol of the LDCETTTO BROAT protocol is directed of the specific protocol of the LDCETTTO BROAT protocol is directed of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the from the Protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the specific protocol of the sp |
| TG-301 Division | E cc a code M | Cartifican Submissi Inter the division fication/r de for each infine for this test ationEve oup. Division is Informati so incom as Is/Cartifi ale. 420tatili | formati | TRUE | 1 for each unique cobination of carline mt code, division code, carline code, cart region code, transmission type transmission lockop indicator, transmission creaper gear indicator, transmission gear count drive system identifier | n | Integer | | | | 0 | 99 | | Light Duty | Certification | Califies MM Code + Model Year + Division Code + Califies Code steelify a unique califie. | Aanufact urer | Front | XML | LDCERT/10 BROND |
| TG-302 Carline c | E aj | Cantificat Bubmissi onDotatili ationE va pplicable carfine Informati des for this seat stocentri source | on/Certi Iformati a/Certific posative on/Detai | TRUE | 1 for each unique cobination of carline m code, division code, carline code, carl segior code, transmission ype transmission lockup indicator, transmission cresper gear indicator, transmission gear count drive system identifier | r | Interner | | | | | 000 | | Light Duty | | | Aanufact | Front | XMI | LDCETTORROW |
| | ation Region | Certifical Submissi elect all fication pplicable on Dotail artification region das for each Informati totred cartine IsConfik de. Stotalis | ionData on/Centi formati Qentific potative onDatai (Model (Centification Recise | TRUE | 1 for each unique cobination of carline ml code, division code, carline code, carl regior code, transmission year transmission lockup indicator, transmission creaper gear indicator, transmission gear count drive system identifier | r 1 | Enumenatio | | | | 0 | | CA = California + CAA Section 177 states FA = Federal | angun anny | | | Anufact | Front | XML | |
| | E | Costilion | ionData on/Certi formai Zértific potative onDatai LightDutyTransmi | 6 | 1 for each unique cobination of carline m code, division code, carline code, cart segio code, transmission type transmission lockup indicator, transmission creeper gear indicator, transmission gear count drive system identifier | | Enumeratio | | | | | | A = Automatic All = Automatic All = Automatic Manual M = Manual SA = Seni-Automatic CVT = Continuously Variable CVT = Solution Continuously Variable (e., CVT with paddice) OT = Other | Light Duty | Centification | | Anufact urer | Front | XML | |
| Transmis | E | Certificat Submissi ficationin onDatail the transmission informati pe if "other" Is/Centific | ionData on/Cetti /formati //Cettific potative onDatai LightDutyTransmi | 6 | 1 for each unique cobination of carline ml code, division code, carline code, car regior code, transmission hype tansmission lockup indicator, transmission creeper gear indicator, transmission gear count | r | n Normalized | | | | | | U = Omer | | | | Anufact | Front | XML | LDCETTTOBREE #T0.07 - One the T0.301 seques. |
| | D Ission Lockup | cartificat Submissi pe have a ansensision torque protocological setters construction per la construction per la construction p | ionData on/Ceni Iformati WCentific Dotati onDatai dModal TransmissionLocks | TRUE | drive system identifier 1 for each unique code, division code, code, division code, code, transmission type transmission lockep indicator, transmission creeper gear indicator, transmission lockep indicator, transmission creeper gear indicator, drive system identifier | | atring Enumeratio | | | | | | V = Yas N= No | Light Duty | Certification | , , | Anufact | End Front End | XML | LDCERTTG 38968 # TG 307 + Oliver then TG 308 is required. |
| Teassmi | D | | ionData on/Cetti iformati VCettific | TRUE | drive system identifier 1 for each unique code, division code, carline code, cart regior code, transmission type transmission lockup indicator, transmission creeper gear indicator, transmission gear count drive system identifier | A(1) | Enumeratio | | | | | | N = No Y = Yaa N = No | Light Duty | Certification | | uner Aanufact uner | Front | XML | |
| Total Ner | E mber of th | Cartifica | ionData on/Ceni iformati iformati porative onDatai | TRUE | drive system identifier 1 for each unique cobination of carline mi code, division code, carline code, carl segior code, transmission type transmission lockup indicator, transmission creaper gear indicator, transmission gear count drive system identifier | r | Integer | | | | 1 | 99 | | Light Duty | Certification | | Anufact urer | | XML XML | LDCETTTGBROK |

EPA D Eleme Basic Data Data Type Min Lengt Type Description Length h

Originato on Collection r Point n Type

| EPA Data Element Number Test Grou | Long Name p Information | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic. Data Typ Type Description | re <u>Min Le</u> | <u>fax</u> engt h Pattern Digit | Fraction al Digits Min V | alue Max Value | Allowed Values | Industry | Process | NeterOurstions | Originato F | Collecti on Point | Collectio n Type | Applicable Business Rules | Validation Rules |
|--|----------------------------|--|---|--------------|----------|--|--|------------------|---------------------------------------|-----------------------------|----------------|--|------------|---------------|----------------|----------------|-------------------------|---------------------|---------------------------|------------------|
| TG-312 | | Enter the applicable drive system for this | CertificationData Submission/Certi ficationInformati onDatails/Certific ationEvaporative InformationDatai Is/CertifiedModal Is/Datails | TezDriveCode | | 1 for each unique obtination of carline mfr code, division code, carline code, carl region code, transmission type, tansmission lockup indicator, transmission creeper gear indicator, transmission gear count, drive system identifier | Enumeral A(1) n | io | | | | 4 = 4-sheal Drive F = 2-sheal Drive, front P = Parts time 4-sheal drive A = All sheal drive | Light Duty | Certification | | Manufact | | XML | | |

| | | | | | | | | | | | | - <u>n</u> | _ | - | | | | | | |
|---|---|---|--------------------------------------|----------|-----------------|-----------------------|--|--------------------|---|--------------------------------|--------------------|---|------------|-----------|---|------------------|-----------------------------|---------------------|---|--|
| Orange = Changes Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | |
| EPA Data Bement. Number Long Name Fuel Economy Label Information | Description | Parent's Name | XMLTag | Required | Multiplicity | Basic Data Type | Data Type Descript Min. ion Lengt | Max. h Length P | Pattern Digits | Fraction al Digits Min Valu | 2 <u>Max Value</u> | Allowed Values | Industry | Process | Notes/Questions | Originator | <u>Collecti</u> on Point | Collecti on Type | Applicable Business Rules | English validation rules. |
| GL-0.5 Process Code | Select the desired process code for the current submission | FuelEconomyLabelSubmissic n/FuelEconomyLabelDetails efined as "a unique combinati | InformationProcessCode | TRUE | 1 per FE Label | A(1) | Enumer ation | | | | | N – New dataset C – Correction of an existing Verify dataset | Light Duty | FE Label | | Mr | Front End | XML | | lf process code-R, D or C a record must exist in Verify for the primary key of this module. |
| Boot type mornation (r.e. | Enter the Manufacture r-assigned index number for this model type. It is used as a link to the data set that is associated with the label of this | FuelEconomyLabelSubmissi nFuelEconomyLabelSubmissi | | TRUE | 1 per FE Label | | | | | | 999 | | | FE Label | | Mr | Front End | 24 | LD #E-0_8001a LD FE-0_8001a LD FE-0_80002 | Nedel Type Inder + MF Code + Medal Your must not exist for process code (GL 0.5) = 10. orderaries must exist for other process codes. |
| GL-2 Monufacturer Code | The three character code assigned by EPA to each manufacture r. This will be derived from users' CDX account. | n+uelicconomyLabelSubmissio FuelEconomyLabelSubmissio nFuelEconomyLabelSubmissio | | TRUE | 1 per FE Label | N(3) | String 3 | 3 | [A-20 - 9](3) | 1 | 393 | | Light Duty | | | Verify | Front End | XML | LD FEGL 88002 LD FEGL 88001s LD FEGL 880012 LD FEGL 88042 LD FEGL 88043 LD FEGL 88043 LD FEGL 88044 | onemes, must each or one process codes. |
| GL-176 Release Date | Enter the date this model type information can be released to the public. Enter the | FuelEconomyLabelSubmissio | | TRUE | | | Date (YYYYM MDD) | 2 9 1 | [1- 2](1)(0- 2](3)(0- 1)(1)(0- 2](1)(1)(0- 2](1)(1)(0- 2](1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(| | | | | | | Manufactur er | Front End | XML | CR-BR11 CR-BR12 New LD-FE-GL-BR097 | K this field is not having moved in Testgroup lefe, then it's required when process- ender (01-65) = 11, 07, or 11, New The Reinsen Date (10, 170) cannot be before January 2nd of the year prior to Model Year (10,-3) or after December 31st of the Model Year (10,-3). |
| GL-3 Model Year | applicable Model Year for this FE Label. | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails | ModelYear | TRUE | 1 per FE Label | N(4) | Year 4 | 4 | | 1957 | 2100 | | Light Duty | FE Label | | Mir | Front End | XML | LD-FE-GL-BR001a LD-FE-GL-BR001b LD-FE-GL-BR002 LD-FE-GL-BR004 | Model Type Index + Mr Code + Model Year must not exist for process code=N, otherwise, must exist for other process codes. |
| Manufacturer FE Label GL-4 Comments | Enter any additional comments regarding the FE Labe for this Model Type. | FuelEconomyLabelSubmissic n/FuelEconomyLabelDetails/l anufacturerSubmissionDetail | fuelEconomyLabelComme | FALSE | 1 per FE Label | A(1000) | String 1 | 1000 | | | | | Light Duty | FE Label | | Mfr | Front End | XML | LD-FE-GL-BR005 | Optional for Process Code+N and R, required for Process Code+C and D. |
| GL-6 Date Submitted | A system- generated field indicating the date that this set of label information | FuelEconomyLabelSubmissis nFuelEconomyLabelDetailsA anufacturerSubmissionDetails | | TRUE | 1 per FE Label | D(8) | Date | | | | | | Light Duty | | | Verify | | Assigne | | |
| Sind School State | ita- manufacture r- apresentati ve that should be- contacted ii (FA has- questions- regending- label label scontacte- name email addrese- and phone- number will be looked- up from the contact- entered by- manufacture information- previously- entered by- the- | Feel Fanomy, data Oberina Af Lea Fanomy, data Oberina Andrea Fanomy, data Oberina Andrea Mandrea Schultz | e CoulombianeTest | TRUE | 1.par.fili.abai | 450) | String | 50 | | | | | Light Duty | FE Labol. | Messily all potential spritects all. New see in the antitect previous line and the state of the state of the state where he that he house - format datases and phases them do Bankoo datase than the corresponding datases than the | žás | Front- End | | | |

| EPA Data Element Number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Descript ion L | Min M | ath Patte | <u>Total</u> n Digits | Fraction al Digits M | in Value | <u>Max Value</u> | Allowed Values | Industr | e Process | Notes/Questions | <u>Collec</u> Originator on Poi | cti <u>Collecti</u> int on Type | Applicable Business Rules | English validation rules |
|-------------------------------|-----------------------------|--|---|----------------------------|--------------|---------------------------|-----------------------|-----------------------------------|-------|---------------|--------------------------|-------------------------|----------|------------------|----------------|-----------|--------------|--|------------------------------------|------------------------------------|--|--|
| Fuel Econom | y Label Information | address of the- menufacture F- | | | | | | | | | | | | | | | | | | | | |
| | | representati ve that- should be- contacted if- EDA har- | | | | | | | | | | | | | | | | | | | | |
| | | representati ve that arheuld be- contacted if. EPA has equestions- regarding- this set of label information. The- contactis- email address will | | | | | | | | | | | | | | | | | | | | |
| | | The- contact's- email- address will- be looked- | | | | | | | | | | | | | | | | | | | | |
| | | up from the contact- information- previously- entered by | | | | | | | | | | | | | | | | Ideally, all potential contacts will- | | | | |
| | Manufacturer Fuel Economy- | entered by the manufacture r in the Manufacture r Information | FuelEconomyLabelSubmissio vFuelEconomyLabelDetailsM anufacturerSubmissionDetails | | TRUE | | | | | | | | | | | | ty FELabel | Mr info so that the user could choose it from a pull down of all- users for that mfs code. Email address and phone number would then be derived from the | 5- Front Verify End | 4- | | |
| GL4 | Label Contact Email Address | module of number of the- manufacture F- | IndividualContactDetails C | contactEmailAddressText | TRUE | 1 per FE Label | A(100) | String | | | | | | | | Light Du | ty FE Label | corresponding chosen name. | Verify End | , xur | | |
| | | representati ve that should be contacted if EPA has | | | | | | | | | | | | | | | | | | | | |
| | | EPA has questions regarding this set of fuel economy label information The contact's | | | | | | | | | | | | | | | | | | | | |
| | | information. The- contact's- phone. pumber will. | | | | | | | | | | | | | | | | | | | | |
| | | be looked- up from the- contact- information- previously- | | | | | | | | | | | | | | | | Ideally, all potential contacts will- have user info entered previously in Mr. Info so that the user could | - | | | |
| 6L9 | Label Contact Phone Number- | entered by- the- manufacture r in the- Manufacture | FuelEconomyLabelSubmissio nFuelEconomyLabelDetailsAt anufacturerSubmissionDetails IndividualContactDetails | | TRUE | 1 per FE Labei | A(25) | String | 2 | 5 | | | | | | Light Dr. | ty FE Label- | choose it from a pull down of all- users for that mfr code. Email address and phone number would then be derived from the corresponding chosen name. | ± Front Verify End | 4. * ****- | | |
| | | E e text de s | lodel Yr + Carline Manufacturer (| Code + Division Code + Car | rline Code") | | | | | | | | | | | | | | | | | |
| | | carline manufacture r code for this FE Label. The unique combination of model | | | | | | | | | | | | | | | | | | | | |
| | | year, carline | | | | | | | | | | | | | | | | | | | | Must be a valid manufacturer code. If the specified manufacturer code is different than the affected of the submitter? ("DV user account must used that the submitter?" info |
| GL-10 | Carline Manufacturer Code | carline code must exist in a certified test group. | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/C arlineDetails E | PAManufacturerCode | TRUE | 1 per FE Label | A(3) | String | 3 3 | [A-Z0 9](3 | | | | | | Light Du | ty FE Label | | Front Mfr End | it I XML | LD-FE-GL-BR003 LD-FE-GL-BR004 LD-FE-GL-BR045 New LD-FE-GL-BR098 | the min code of the submitters' CDX user account, must wrify that the submitter' min code is one of the alternate min codes for the specified min code in min into. The unique combination of model year, certifying manufacturer code, division code and carline code must exist in a previously certified test group. |
| | | Enter the division code for this FE Label. | | | | | | | | | | | | | | | | | | | | |
| | | The unique combination of model year, carline manufacture | | | | | | | | | | | | | | | | | | | | |
| | | r code, division code and carline code must exist in | FuelEconomyLabelSubmissio nFuelEconomyLabelDetails/C | | | | | | | | | | | | | | | | | | LD-FE-GL-BR004 LD-FE-GL-BR046 | The unique combination of model year, carline manufacturer code, division code and |
| GL-11 | Division Code | Enter the | n/FuelEconomyLabelDetails/C arlineDetails M | fanufacturerDivisionCode | TRUE | 1 per FE Label | N(2) | Integer | 1 3 | | | | 1 | 99 | | Light Du | ty FE Label | | Front Mfr End | it XML | LD-FE-GL-BR098 New LD-FE-GL-BR098 | The unique combination of model year, carline manufacturer code, division code and carline code must exist in a previously certified test group. |
| | | carline code for this FE Label. The unique combination of model year, carline | | | | | | | | | | | | | | | | | | | | |
| | | year, carline manufacture r code, division code and carline code | | | | | | | | | | | | | | | | | | | | The unique combination of model year, carline manufacturer code, division code and carline code must exist in a previously certified test group. |
| GL-12 | | | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/C arlineDetails | CarlineCode | TRUE | 1 per FE Label | N(3) | Integer | 1 : | | | | 1 | 999 | | Light D | ty FE Label | | Mr End | t XML | LD-FE-GL-BR004 LD-FE-GL-BR047 New LD-FE-GL-BR098 | NEW: The combination of Carline Manufacturer Code (GL-10), Division Code (GL-11), and CarlineCode (GL-12) must exist at least once in the repeated subconfiguration sales information (GL-125.6, GL-125.6, and GL-125.7). |



| EPA Data Element Number Fuel Econor | Long Name Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Descript ion La | Min. M. ength Len | ax. hgth. Patter | n Digits | Fraction al Digits N | din Value Max Valu | JE. | Allowed Values | Industry | Process | Notes/Questions | Originator | Collecti on Point | Collecti on Type | Applicable Business Rules | English velidation rules |
|--|---|--|--|----------|----------------------|-----------------------|------------------------------------|----------------------|---------------------|----------|-------------------------|--------------------|---------------|--|-------------|----------|--|------------|----------------------|--|---|--|
| GL-21 | Engine Block Arrangement Engine Block Arrangem | | EngineBlockArrangementOt herText | FALSE | 1 per FE Label | A(500) | String | 1 50 | 20 | | | | | | Light Duty | FE Label | GL-16 finough GL-65 has been previously vertend in Certification table. It can be devided from the Verty based from the CR-13.0, TG-31 GL-16 hnough GL-65 has been previously vertend in Certification table. It can be devide from the Verty based from the Verty based and va the Test Group (CR-13.0). | Verify | | Pre- Existing Data Pre- Existing Data | | Previously addated in test group into. |
| GL-22 | Label. | | CylindersOrRotorsCount | FALSE | 1 per FE Label | N(2) | Integer | | | | | 0 20 | | | Light Duty | FE Label | TG-32 | Verify | End | Data | | Previously validated in test group info. |
| NEW GL-22.1 | Camless Valvetrali Indicator | | | TRUE | Once per test group. | A(3) | Enumer | | | | | | | 4- No /= Yos | Light Duty | ÆLabel | 16-32.5 | Verify | Back I End | Pre- Existing Data | | |
| NEW | Enter ci Viscury di classificati n recommence (c.g. 1000g frambier frambier sympto- targines promo (c.g. gwz) of 4, gwz) | 1 | | 7015 | | 4/25) | String | | | | | | | | | | 10-22 | Varific | Back | Pre- Existing Data | | |
| Delete: | Enter the applicable last metering ignition Basic Basic Use ful Basic Label | | PrimaryFuelMeteringSyste | FALSE | Loer FELsbei | A(4) | Enumer | | | | | | 4 0 4 4 H H H | ATL = Multipoint/sequential fuel injection MMX = CM2 minor unit 251 - decellers Extra Linjection AMX = Enc. Manner Rall Disest injection GRI = Common Rall Disest injection GRI = Common California California (California) California (California) The California (California) The California (California) The California (California) The California (California) California (California) The California (California) Atlantia (Cali | Light Duty | Rélabol | CL-16 through CL-65 has been previously entered in Cortification data Ican be derived from the Verify-back end via the Teet Group (GL-13-5); TG-13 | Verify | Back- I | Pre- Existing. Data | | Presente address in test area info |
| Delete: GL-24 | Enter the speciable escond have escond hav | | SecondaryFusiMeteringSy stemidentifier | FALSE | 1-per Félabol | A(4) | Enumer | | | | | | | AR — Multipoint/Leopantial fusi injection MMX — CNG mices unit CH — Gasolina Direct fusi injection MMX - LPG Mice SRD = Common Rail Direct injection CH = Direct Direct injection CH = Direct Direct injection CH = Direct Direct Reports CH = Threat Brady Injection CH = Threat Brady Injection | Light Duty | RELabel | GL-15 through GL-65 has been previously extend in Costilization data Ican be derived from the Verify-back end vis the Test Group (GL13.5). 70-35 | Verily | Back- i End | Pra- Existing- Data | | Presingly solidated in test group late. |
| GL-25 | | FuelEconomyLabelSubmissi nifuelEconomyLabelSubmissi sicEngendUests | EngineConfigurationNumb | FALSE | 1 per FE Label | N(2) | Integer | | | | | 1 99 | | | Light Duty. | FE Label | The Engine Configuration Number along with the Testgroup Name (EL Hybrid Combuston Engine Description Information (TG-28 Intrough TG-28) from Engine Description Information, The referenced atas elements (EL-18 trough S-4) do not easily be do need to be displayed on FE Label enseme. Cal-16 Frough C-46 has been do need to be displayed on FE Label enseme. | Mr | Front End | XM. | LD-FE-GLIBROSS Update LD-FE-GLIBROSS | This angles configuration number must lead in combination with the test group name cited above (GL-13.6) in Testgroup Information. Required when Drive Source (GL-13.5.1) is 'C' (Combustion Brighes). |
| GL-26 GL-27 | The engine displacement (Brighter Displacement (Berr) Internet (Berr) Internet FE Label Cylinder Daschvation Cylinder Daschvation Her Displacement Her Displace | | EngineDisplacementValue CylinderDeactivationIndicat or | FALSE | 1 per FE Label | N(5,3) A(1) | Decimal Enumer ation | | | 5 | 3 | 0.001 99.999 | | /= Yes = No | Light Duty | FE Label | dala. Itcan be derived from the Verify back end via the Test (Group (GL 13.5), TG-38 GL-16 through GL-65 has been previous/y entend in Certification data. Itcan be derived from the Verify back end via the Test (Group GL 13.5), TG-39 | Verify | | Pre- Existing Data Pre- Existing Data | | Previously wildated in test group info. |



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|-------------------------------|--------------------------------------|---|---------------|------------------------------------|----------|----------------|---|--------------------------|-----------------|------------------------|-----------------------|-----------|-----------|--|------------|----------|--|------------|----------------------|--------------------------|---------------------------|--|
| Fuel Econor | my Label Information | The | | | | | | | | | | | | | | | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group | | | | | |
| | | applicable type of battery for this FE Label. | | | | | | | | | | | | LA = Lead Acid NIMH = NIMH | | | data. It can be derived from the Verify back end via the Test Group (GL13.5). | | | Pre- | | |
| GL-43 | Battery Type | | | BatteryTypeldentifier | FALSE | 1 per FE Label | A(4) ation | er 1 | | | | | | UI = Li+ OT = Other | Light Duty | FE Label | TG-79 | Verify | Back End | Existing Data | | Previously validated in test group info. |
| | | The description of the battery type for this | | | | | | | | | | | | | | | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). | | | | | |
| GL-44 | Battery Type if Other | type for this FE Label if "other" selected. | | BatteryTypeOtherText | FALSE | 1 per FE Label | A(30) String | g 1 | 30 | | | | | | Light Duty | FE Label | (GL13.5). TG-80 | Verify | Back End | Pre- Existing Data | | Previously validated in test group info. |
| | | The total number of batteries for | | | | | | | | | | | | | | | GL-16 through GL-65 has been | | | | | |
| | | batteries for this FE Label. Does not include | | | | | | | | | | | | | | | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). | | | Pre- | | |
| GL-45 | Number of Batteries | starter batteries. | | BatteryCount | FALSE | 1 per FE Label | N(3) Intege | er | | | | 0 | 999 | | Light Duty | FE Label | TG-81 | Verify | Back End | Existing Data | | Previously validated in test group info. |
| | | The total voltage of all battery pack(s) for | | | | | | | | | | | | | | | | | | | | |
| | | battery pack(s) for this FE Label. Does not include starter | | | | | | | | | | | | | | | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group | | | | | |
| GL-46 | Total Voltage of Battery Pack(s) | starter batteries. (in Volts) | | BatteryTotalVoltageMeasur e | FALSE | 1 per FE Label | N(3) Intege | ar | | | | 1 | 999 | | Light Duty | FE Label | (GL13.5). TG-82 | Verify | Back End | Pre- Existing Data | | Previously validated in test group info. |
| | | The battery energy capacity for | | | | | | | | | | | | | | | | | | | | |
| | | this FE Label. Does not include | | | | | | | | | | | | | | | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group | | | | | |
| GL-47 | Battery Energy Capacity | starter batteries. (in Ah) | | BatteryEnergyCapacityMeas ure | FALSE | 1 per FE Label | N(4,2) Decim | al | | 4 | 2 | 0.01 | 99.99 | | Light Duty | FE Label | (GL13.5). TG-83 | Verify | Back End | Pre- Existing Data | | Previously validated in test group info. |
| | | The battery | | | | | | | | | | | | | | | | | | | | |
| | | energy for this FE Label. Does not include starter | | | | | | | | | | | | | | | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). | | | | | |
| GL-48 | Battery Specific Energy | starter batteries. (in Whr/kg) | | BatterySpecificEnergyMeas ure | FALSE | 1 per FE Label | N(5,1) Decima | al | | 5 | 1 | 0.1 | 9999.9 | | Light Duty | FE Label | TG-84 | Verify | Back End | Pre- Existing Data | | Previously validated in test group info. |
| | | The applicable type of | | | | | | | | | | | | | | | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group | | | | | |
| GL-49 | Battery Charger Type | battery charger type for this FE Label. | | BatteryChargerTypeldentifie | FALSE | 1 per FE Label | A(3) ation | er | | | | | | ON = On-Board OFF = Off-Board B = Both | Light Duty | FE Label | Verify back end via the Test Group (GL13.5). TG-85 | Verify | Back End | Pre- Existing Data | | Previously validated in test group info. |
| | | The number | | | | ., | | | | | | | | | | | GL-16 through GL-65 has been | , | | | | · · · · · · · · · · · · · · · · · · · |
| | Number of Capacitors | of capacitors for this FE Label | | | | | | | | | | | 99 | | | | data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-86 | Verify | Back End | Pre- Existing Data | | |
| GL-50 | Number of Capacitors | Label. | | CapacitorCount | FALSE | 1 per FE Label | N(2) Intege | ar | | | | 0 | 99 | | Light Duty | FE Label | TG-86 GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group | Verity | End | Data | | Previously validated in test group info. |
| | | each capacitor number (in | | | | | | | | | | | | | | | (GL13.5). | | Back End | Pre- Existing | | |
| GL-51 | Capacitor Rating In Farads | farads). Any additional | | CapacitorRatingValue | FALSE | 1n | N(4,2) Decim | al | | 4 | 2 | 0.01 | 99.99 | | Light Duty | FE Label | TG-87 GL-16 through GL-65 has been previously entered in Certification | Verify | End | Existing Data | | Previously validated in test group info. |
| | | about the capacitor(s) for this FE | | | | | | | | | | | | | | | data. It can be derived from the Verify back end via the Test Group (GL13.5). | | Back | Pre- | | |
| GL-52 | Capacitor Comments | Label. The | | CapacitorCommentText | FALSE | 1 per FE Label | A(100) String | g 1 | 100 | | | | | | Light Duty | FE Label | TG-88 GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the | Verify | Back End | Existing Data | | Previously validated in test group info. |
| | | description of the hydraulic system for | | | | | | | | | | | | | | | data. It can be derived from the Verify back end via the Test Group (GL13.5). | | | Pre- | | |
| GL-53 | Hydraulic System Descripti | this FE ion Label. The | | HydraulicSystemDescriptio nText | FALSE | 1 per FE Label | A(1000) String | g 1 | 1000 | | | | | | Light Duty | FE Label | TG-89 | Verify | Back End | Existing Data | | Previously validated in test group info. |
| | | applicable type of regenerative braking | | | | | | | | | | | | | | | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the | | | | | |
| | | technology utilized on this FE | | | TRUE | | Enumo A(3) ation | er | | | | | | NA = Not applicable (default) ERE = Electrical Regen Brake HRE = Hydraulic Regen Brake OT = Other | | | previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-90 | | Back End | Pre- Existing Data | | |
| GL-54 | Regenerative Braking Type | Label. | | BrakingTypeldentifier | TRUE | 1 per FE Label | A(3) ation | | | | | | | u = Uher | Light Duty | FE Label | 1G-90 | Verify | End | Data | | Previously validated in test group info. |
| | | description of the type of regenerative braking | | | | | | | | | | | | | | | GL-16 through GL-65 has been | | | | | |
| | | utilized on this FE | | | | | | | | | | | | | | | previously entered in Certification data. It can be derived from the Verify back end via the Test Group | | | | | |
| GL-55 | Regenerative Braking Type "Other" | Label if *other* is selected. | | BrakingTypeOtherText | FALSE | 1 per FE Label | A(1000) String | , | | | | | | | Light Duty | FE Label | (GL13.5). TG-91 GL-16 through GL-65 has been | Verify | Back End | Pre- Existing Data | | Previously validated in test group info. |
| | | The applicable source of regenerative | | | | | | | | | | | | | | | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). | | | | | |
| GL-56 | Regenerative Braking Sour | braking for this FE ce Label. | | BrakingSourceIdentifier | FALSE | 1 per FE Label | Enume A(1) ation | er i | | | | | | F = Front Wheels R = Rear Wheels B = Both | Light Duty | FE Label | (GL13.5). TG-92 | Verify | Back End | Pre- Existing Data | | Previously validated in test group info. |

| EPA Data Bernent Number Long Name Fuel Economy Label Information | Description | Parent's Name | XMLTag | Required | Multiplicity | Basic Data Type | Data Type Descript ion | <u>Min</u> Length L | Max_ ength. P | attern Digit | I <u>Fractik</u> s al Digi | on its Min Value | Max Value | | Allowed Values | Industry | Process | Notes/Questions | <u>Originator</u> on 1 | ecti <u>Colle</u> Point on Ty | zti 20 Applicable Business Rules | English validation rules. |
|---|---|---|---|----------|----------------|-----------------------|---------------------------------|------------------------|------------------|--------------|-------------------------------|---------------------|-----------|--|--|------------|----------|--|------------------------|----------------------------------|--------------------------------------|---|
| Driver Controlled GL-57 Regenerative Braking | Does this FE Label have driver- controlled regenerative braking? | | DriverControlledBrakingIndi cator | FALSE | 1 per FE Label | A(1) | Enumer | | | | | | | N = No Y = Yes | | Light Duty | FE Label | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-93 | B. Verify E | Pre ick Existi nd Dat | ng | Previously validated in test group info. |
| Number of Drive GL-58 Motor/Generator(s) | The number of drive motor/gener ator(s) for this FE Label. | | MotorGeneratorCount | FALSE | 1 per FE Label | N(1) | Integer | | | | | 0 | 9 | | | Light Duty | FE Label | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back and via the Test Group (GL13.5). TG-94 | Bi Verify E | Pre ick Existi nd Dat | 9 | Previously wildated in test group into. |
| GL-59 Motor/Generator Type | The applicable type of motor/gener ator for this FE Label. | | GeneratorTypeldentifier | FALSE | 1.n | A(4) | Enumer ation | | | | | | | ACI = AC DCB = D DCPM = SR = Swi OT = Oth | Induction C Brushless DC Permanent Magnet, brushless tithed Reluctance er | Light Duty | FE Label | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-95 | B: Verify E | Pre ick Existi nd Dat | 19 | Previously utilidated in test group info. |
| GL-60 Motor/Generator Type if Of | The description of the type of motor/gener ator for this FE Label if other is her selected | | GeneratorTypeOtherText | FALSE | 1n | A(30) | String | 1 | 30 | | | | | | | Light Duty | FE Label | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back and via the Test Group (GL-13.5). TG-96 | B: Verify E | Pre ick Existi nd Dat | ig i | Previously validated in test group info. |
| Rated Motor/Generator GL-61 Power | The rated power of the motor/gener ator for this FE Label. (in kWatt) | | GeneratorRatedPowerValu | FALSE | 1 | N(3) | Integer | | 50 | | | 1 | 999 | | | Light Duty | FE Label | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-97 | | Pre ick Existi nd Dat | | Previously window in text group into. |
| GL-62 Fuel Cell Description | The description of the fuel cell for this FE Label. | | FuelCellDescriptionText | FALSE | 1 per FE Label | A(1000) |) String | 1 | 1000 | | | | | | | Light Duty | FE Label | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-98 | Bi Verify E | Pre ick Existi nd Dat | | Previously validated in test group info. |
| Fuel Cell On-Board H2 GL-63 Storage Capacity | The on- board hydrogen storage capacity for this FE Label. (in kg) | | FuelCellOnboardHydrogen StorageMeasure | FALSE | 1 per FE Label | N(5,2) | Decimal | | | 5 | 2 | 0.01 | 999.99 | | | Light Duty | FE Label | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-99 | B: Verify E | Pre ick Existi nd Dat | ig | Previously validated in test group into. |
| GL-64 Usable H2 Fill Capacity | The usable hydrogen fill capacity for this FE Label. (in kg) | | UsableHydrogenFillCapacit yMeasure | FALSE | 1 per FE Label | N(5,2) | Decimal | | | 5 | 2 | 0.01 | 999.99 | | | Light Duty | FE Label | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5). TG-100 | B: Verify E | Pre ck Existi nd Dat | ng | Previously validated in test group info. |
| GL-65 HEV EV Commonts | Any additional comments for this electric vehicle or hybrid- electric vehicle. | | ManufacturerCommentText | FALSE | 1 per FE Label | A(1000) |) String | 1 | 1000 | | | | | | | Light Duty | FE Label | GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back and via the Test Group (GL13.5). TG-101 | B: Verify E | Pre ck Existi nd Dat | ng | Prevously validated in test group into. |
| Transmission Class Inform | nation | | | | | | | | | | | | | A = Auton AM = Auto | natic Imated Manual | | | | | | | |
| GL-67 Transmission Type | Label. Enter a | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/T ransmissionClassDetails | o TransmissionTypeldentifier | TRUE | 1 per FE Label | A(3) | Enumer ation | | | | | | | M = Manı SA = Sen CVT= Co SCV=Sel with pad OT = Oth | ral ni-Automatic ntinuously Variable ectable Continuously Variable (e.g. CVT dles) | Light Duty | FE Label | | Mr E | ont nd XML | LD-FE-GL-BR093 New LD-FE-GL-BR117 | GL-BRSE: If Transmission Type (GL-67) is equal to CVF (Continuously Variable), then Number of Transmission Gears (GL-71) must equal 'T. |
| GL-68 Transmission Type If Othe | r selected. | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/T ransmissionClassDetails |) TransmissionTypeOtherTex t | FALSE | 1 per FE Label | A(30) | Normali zed string | 1 | 30 | | | | | | | Light Duty | FE Label | | Fr Mfr E | ont nd XML | LD-FE-GL-BR007 | lf GL-67 – Other then GL-68 is required. |
| GL-69 Transmission Lockup | Does this FE Label have a transmissio n torque converter lock-up mechanism 2 | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/T ransmissionClassDetails |) TransmissionLockupIndica | TRUE | 1 per FE Label | A(1) | Enumer ation | | | | | | | Y = Yes N = No | | Light Duty | FE Label | | Mr E | ont nd XM4 | New LD-FE-GL-BR117 | |
| | Does this FE Label have any transmissio n creeper gear(s)? Creeper gear is | | | | | | | | | | | | | | | y | | | | | | |
| GL-70 Transmission Creeper Get | defined as having a | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/T ransmissionClassDetails | TransmissionCreeperGearl ndicator | TRUE | 1 per FE Label | A(1) | Enumer ation | | | | | | | Y = Yes N = No | | Light Duty | FE Label | | Fr Mfr E | ont nd XML | New LD-FE-GL-BR117 | |
| Total Number of GL-71 Transmission Gears | total number of forward transmissio n gears for this FE Label. Enter "1" for CVT | FuelEconomyLabelSubmissio n/FuelEconomyLabelOetails/T ransmissionClassDetails | TransmissionGearCount | TRUE | 1 per FE Label | N(2) | Integer | | | | | 1 | 99 | | | Light Duty | FE Label | | Fr Mir E | ont nd XML | LD-FE-GL-80058 New LD-FE-GL-88117 | |

420d11003.xls FE Label+

| EPA Data Element Number Fuel Econo | Long Name Desc my Label Information | ption Parent's Name | XMLTag | Required | Multiplicity | Basic Data Type | Data Type Descript Min ion Length | <u>Max.</u> <u>Length</u> Pattern Digits | Fraction al Digits Min Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator or | ellecti <u>Coll</u> Point on 1 | icti spe Applicable Business Rules | English validation rules |
|---|---|---|--|----------|----------------|-----------------------|--|---|---------------------------------|-----------|---|------------|----------|---|---------------|-----------------------------------|---------------------------------------|---|
| GL-72 | drive s for this Drive system Label | ible stem FuelEconomyLabelSubmiss FE n/FuelEconomyLabelDetails ransmissionClassDetails | io Л TestDriveCode | TRUE | 1 per FE Label | A(1) | Enumer ation | | | | 4 = 4-wheel Drive F = 2-wheel Drive, front R = 2-wheel drive, front P= Part-time 4-wheel drive A = All wheel drive | Light Duty | FE Label | | Mir | Front End X0 | L New LD-FE-GL-BR117 | |
| GL-73 | Enter applic transr n over system this Fi | te ible issio Irive for FuelEconomvLabelSubmiss | io | TRUE | 1 per FE Label | A(1) | Enumer | | | | 1 = No gear ratio < 1 2 = Top gear ratio < 1 | Light Duty | | | Mir | iront End X0 | | |
| GL-73 | ls a si indica light u for this | ift ar lized FE | ther | TRUE | 1 per FE Label | A(1) | ation | | | | | Light Duty | FE Label | | Mr | End X0 | L | |
| GL-74 | Shift Indicator Light ns. | ted I FuelEconomyLabelSubmiss | io /Γ icator icator | TRUE | 1 per FE Label | A(1) | Enumer ation | | | | N – No Y – Yes | Light Duty | FE Label | | Mir | iront End X0 | L LD-FE-GL-BR008 | Y is onlyvalid when GL-67 = M or XM or '07'. |
| | is an n mana (i.e. Stop?) etropin deucu utilize Label (See 4 8.3A, 5 | eme art for C FuelEconomyLabelSubmiss n/FuelEconomyLabelSubmiss | io // EngineManagementSystem Identifier | | | A(1) | Enumer | | | | N – No V – Yes | | | | Mr | iront End X0 | | |
| GL-75 | Engine Management System 4.) Enter numb trans n moc his Fi Label Number of Transmission AC 8: | ne frof rof isio rs for (See FuelEconom yLabelSubmiss n pFuelEconom vLabelSubmiss | io TransmissionModeNumber | TRUE | 1 per FE Label | | ation | | | | LYes, Lut with lock-out features N = Net applicable V = Continuously variable, user selectable C = Computer controlled multiple gear ratios C = Computer controlled multiple gear 1 = 3 discrete lock-up pm ranges 5 = 5 discrete lock-up pm ranges 5 = 6 discrete lock-up pm ranges 7 = 7 discrete lock-up pm ranges 8 = 8 discrete lock-up pm ranges 8 = 8 discrete lock-up pm ranges 8 = 8 discrete lock-up pm ranges | Light Duty | FE Label | | | inont | | |
| GL-76 | Modes page Enter applicit lockur Label A.C 8: | ne bble s point ere | | TRUE | 1 per FE Label | A(1) | ation | | | | 9 - 9 discelle lock-up pm ranges N - Not applicable V - Continuously variable V - Continuously variable V - 1 discrete lock-up pm ranges 3 - 3 discrete lock-up pm ranges 5 - 5 discrete lock-up pm ranges 5 - 5 discrete lock-up pm ranges 5 - 6 discrete lock-up pm ranges 7 - 7 discrete lock-up pm ranges 8 - 8 discrete lock-up pm ranges 9 - 8 discrete lock-up pm ranges 1 - 8 discrete lock-up pm ranges | Light Duty | FE Label | | | iront | L | |
| GL-77 | Variable lockup point page ls declut or freew g utili this Fi Label (See , | .) ransmissionClassDetails hing eelin kl for | | TRUE | 1 per FE Label | A(1) | ation | | | | 9 = 9 discrete look-up rpm ranges | Light Duty | FE Label | | Mfr | End XM | | |
| GL-78 | (See J 83A p Declutching/Free Wheeling 4.) | | io /T DeclutchingFreeWheelingId entifier | TRUE | 1 per FE Label | A(1) | Enum er ation | | | | N = No Y = Yes L = Yes, but with lock-out features | Light Duty | FE Label | | Mr | Front End X0 | | |
| NEW GL-78.1 | Verig deer the of the of the of the of the of the of the of the of the of the of the of the of the of the of the of the of the the of the of the of the of the of the of the of the of the of the the of the of the of the of the the of the of the of the of the of the the of the of the the of the of | ine be sted vel tro d for heat e (GL- s f f f r of heat s to s | | TRUE | 1 per FELabel | A(12) | Enumer | | | | Determined by Verity from GL-87 (Transmission Type) and GL-71 (Total number of Transmission GL-71 EL Ar Jack2000) M = Tanana(MO) M = Tanana(MO) CYT = Aug(AV) CYT = Aug(AV) CYT = Aug(AV) CYT = Color(CTSY) CYT = | Light Duty | FE Label | Determined by Venity from GL-67 (Total munket of Transmission Garanti as tolerations of Garantian Garanti as tolerations of GL-71 is: As - AnnexOM As - Manufacture As - AnnexOM As - AnnexOM Control (Control (Control)) As - AnnexOM (Control) As - AnnexOM (Control) As - AnnexOM (Control) As - AnnexOM (Control) (| Verify | iack Ass End i | ye - | |
| NEW GL-78.2 | Mode to design design description mode description description value of the value of the to to to to to to to to to to to to to | Type uish uish uish uish uish uish uish uish | io Л ModelTypeDescriptionText | FALSE | 1 per FE Label | A(30) | String 1 | 30 | | | | Light Duty | FE Label | | Mfr | ront End XI | | New II the combination of Model Year (GL-3), Carline Manufacturer Code (GL-16), Division Code (GL-11), Carline Code (GL-12), Test to roug (GL-13), Engine Configuration Number (GL-33), Teacensistor Mya (GL-37), Teacensisto Lesbag (GL-36), Number of Teacensistor Model (CL-30), and Only Manufactures (Teacensistor) Number of Teacensistor Model (CL-30), and North Systems (GL-37), and and a start full economy label then Model Type Descriptor Field (GL-76.3) in registed. |

Collecti Collec

| EPA Dat | L | | | | | | Basic Type | | | | | | | | | | | | | |
|-----------------|--|---|---|-------------------------------------|----------|--|--------------------------|--|-----------------|---------------------------|-----------------|--|------------|----------|--|------------|--------------------|-------------------|--|--|
| Elemen Numbe | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Data Descrip Type ion | t <u>Min Max</u> Length Length Patter | n <u>Digits</u> | Traction al Digits Mir | Value Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator | on Point | t <u>Collecti</u> | Applicable Business Rules | English validation rules |
| | | Does this FE Label | | | | | | | | | | | | | | | | | | |
| | Police or Emergency Vehicle | only include police or emergency | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/L | PoliceEmergencyVehicleOn | | | Enume | r | | | | N = No | | | "Police only" vehicle should not be | | Front | | | |
| GL-86 | Only | vehicles? Are you submitting | abelDetails | lyIndicator | TRUE | 1 per FE Label | A(1) ation | | | | | Y = Yes | Light Duty | FE Label | included in the Fuel Economy Guide | Mir | End | XML | | |
| | | submitting recalculated FE Label | | | | | | | | | | | | | | | | | | |
| | | values due to a | FuelEconomyLabelSubmissio | | | | | | | | | | | | | | | | | If Process Code (GL-0.5) = "N' must not be present. |
| GL-87 | Label Recalculation | Running Change? | n/FuelEconomyLabelDetails/L abelDetails | LabelRecalculationIndicato r | FALSE | 1 per FE Label | A(1) Enume | r | | | | N = No Y = Yes | Light Duty | FE Label | | Mir | Front End | XML | LD-FE-GL-BR011 LD-FE-GL-BR012 | Required if Process Code (GL-0.5) = 'C'. |
| | | Did the label | | | | | | | | | | | | | | | | | | |
| | | recalculatio n generate either higher | | | | | | | | | | | | | | | | | | |
| | | or lower mpg values | | | | | | | | | | | | | | | | | | |
| | | in comparison with the | | | | | | | | | | | | | | | | | | |
| | | original label | | | | | | | | | | | | | | | | | | |
| | | values? (note: This | | | | | | | | | | | | | | | | | | |
| | | is a combination | | | | | | | | | | | | | | | | | | |
| | | of "new Label indicator" | | | | | | | | | | | | | | | | | | |
| | | and *Relabel | FuelEconomyLabelSubmissio | | | | | | | | | | | | | | | | | If Process Code (GL-0.5) = "N' must not be present. |
| GL-88 | Relabel Fuel Usage and Fuel Economy | Option* in CFEIS G1) | n/FuelEconomyLabelDetails/L abelDetails | RelabelChangeldentifier | FALSE | 1 per FE Label | A(2) Enume ation | r | | | | RL = Relabel - label value decreased RH = Relabel option - label value increased | Light Duty | FE Label | | Mir | Front End | XML | LD-FE-GL-BR013 LD-FE-GL-BR014 | Required if GL-87 (Label Recalculation) = Y, else must not be present. |
| | ruer cauge and ruer contain | , values | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | G = Gasoline (Regular Unleaded Recommended) | | | | | | | | |
| | | | | | | | | | | | | GM = Gasoline (Mid Grade Unleaded Recommended) GMR = Gasoline (Mid Grade Unleaded Required) | | | | | | | | |
| | | | | | | | | | | | | GP = Gasoline (Premium Unleaded Recommended) | | | | | | | | |
| | | | | | | | | | | | | GPR = Gasoline (Premium Unleaded Required) D = Diesel, low sulfur (500 ppm) (obsolete after MY2006)- | | | | | | | | |
| | | | | | | | | | | | | DU = Diesel, ultra low sulfur (15 ppm, maximum) M = Methanol | | | | | | | | |
| | | | | | | | | | | | | E = Ethanol (E85) CNG = Compressed Natural Gas LNG = Liquefied Natural Gas | | | | | | | | |
| | | Enter the applicable | | | | | | | | | | LPG = Liquid Petroleum Gas H = Hydrogen | | | | | | | LD-FE-GL-BR015 | If one of the values that begins with 'G' is selected for fuel usage, then the second fuel usage (if present) must not begin with 'G'. |
| GL-89 | Fuel Usage | fuel used for this FE Label. | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/F uelUsageAndEconomyDetails | FuelUsageIdentifier | TRUE | 1n per FE Label 4-2 (1 per Usage value) | A(3) ation | r | | | | EL = Electricity BE = Battery Electric PE = Plus in Mybrid Electric | Light Duty | FE Label | Existing values of 'D' (Diesel, low sulfur (500 ppm)) are valid. | Mir | Front End | XML | LD-FE-GL-BR016 LD-FE-GL-BR049 LD-FE-GL-BR051 | If one of the values that begins with D^{\prime} is selected for fuel usage, then the second fuel usage (if present) must not begin with $D^{\prime}.$ |
| | | Enter the applicable | | | | | | | | | | | | | | | | | | |
| | | unit of measure for | | | | | | | | | | | | | | | | | | If Drive Source (GL-13.5.1) equals 'C' (Combustion Engine), then Fuel Economy Value Unit (GL-90) equals 'MPG' (miles per gallon). |
| | | tuel economy values | | | | | | | | | | | | | | | | | LD-FE-GL-BR017 LD-FE-GL-BR018 | If Fuel Usage (GL-89) equals "H" (Hydrogen) and Fuel Cell Indicator (GL-13.5.8) equals 'Yes' then Fuel Economy Value Unit (GL-90) must be 'MPK' (miles per kilogram). |
| | | based on this Fuel | FuelEconomyLabelSubmissio | | | | | | | | | MPG = miles per gallon (default) | | | | | _ | | LD-FE-GL-BR041 New LD-FE-GL-BR105 | If there is only one Drive Source (GL-13.5.1) and that Drive Source equals 'E' (Electric |
| GL-90 | Fuel Economy Value Unit | Usage value. Enter the | n/FuelEconomyLabelDetails/F uelUsageAndEconomyDetails | rueii:conomyValueUnitiden tifier | TRUE | (1 per Fuel Usage value) | A(8) | 3 8 | + | | | MPK = miles per kilogram KW-HR/100MLES = kilowatt-hour per 100 miles | Light Duty | FE Label | FE Units might be changing with the new FE Label rule | Mir | Front End | XML | New LD-FE-GL-BR106 New LD-FE-GL-BR107 | Motor), then Fuel Economy Value Unit (GL-90) must be 'KW-HR100' (kilowatt-hour per 100 miles). |
| | | annual fuel cost for this | | | | | | | | | | | | | | | | 1 | | |
| | | FE Label using 15,000 | | | | | | | | | | | | | | | | 1 | | |
| | Annual Fuel Cost (Calculated | miles of driving per | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/F | | | 1.2 1 per Fuel Usage | | | | | | | | | | | Front | | | |
| GL-81 | Annual Fuel Cost (Calculated by Manufacturer) | year. | uelUs age AndÉconomyDetails | AnnualFuelCostNumber | TRUE | Value | N(5) | | | | 1 99999 | | Light Duty | FE Label | | Mfr | Front End | XML | | Only one Annual Fuel Cost is allowed unless Fuel Usage Value = "Electricity" |
| | | The Verify calculated | | | | | | | | | | | | | | | | | | |
| | | annual fuel cost for this | | | | | | | | | | | | | | | | | | |
| | | FE Label using 15,000 | | | | | | | | | | | | | | | Backen | | | |
| NEW | Annual Fuel Cost (Calculated | miles of driving per | | | TRUE | 1 per Fuel Usage | | | | | | | | | | Verify | d Front- End | Assigne d | New LD-FE-GL-BR108 | Only one Annual Fuel Cost is allowed unless Fuel Usage Value = "Electricity" |
| GL-81.1 | by Verify) | year. | | | TRUE | Value | N(5) | | | | 1 99999 | | | FE Label | | Mfr. | End | XML | New LD-FE-GL-BR108 | Only one Annual Fuel Cost is allowed unless Fuel Usage Value = "Bectricity" |

420d11003.xls FE Label+

| EPA Data Element Number | | | | | | | Basic Data Type | Data Type Descript M | in Max | T | tal Fractio | | | | | | | | Collecti | Collecti | | |
|-------------------------------|--|--|--|---------------------|----------|---------------------------------------|-----------------------|----------------------------|------------|------------|---------------|-------------|-----------|----------------|------------|----------|-----------------|------------|--------------|--|---|--|
| Number Fuel Econo | Long Name ny Label Information | Description | Parent's Name | XML Tag | Required | Multiplicity | Type | ion Ler | gth Length | Pattern Di | gits al Digit | s Min Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator | on Point | on Type | Applicable Business Rules | English validation rules |
| | Mfr Unrounded Upadiusted | Provide the manufacture r calculated unrounded unrounded undjusted Model Type city fuel economy value (not 5- cycle calculated values). This regulated for approaches. Economy values for approaches. Economy calculated approaches. Calculated approaches. | FuelEconomy, AdelSuberissio FreeEconomy, AdelSuberissio With SuperVision Constructions Subadded for JoneSuberis | | TRUE | 1-3 (1 per Fuel Usage value) | | | | | 7 4 | | | | | | | | Front End | | Delete 10/F-G4-65019a Delete 10/F-G4-65019b | |
| <u>GL-91</u> | Mindel Type Coy FE Value Mir Ukroande d Ukadjusted Biotel Type Highway TH Value | Provide the manufacture r calculated unrounded/ unrounded/ undigutated to hoded Type highway fuel calculated calculate | FuelEconom_LabelSubmisso fuelEconom_LabelSubmisso of uelEconom_LabelSubmisso NeuroIstum UmonoeUnom NeuroIstum UmonoeUnom | | TRUE | (1 per Fuel Usage | N(7,4) [| Decimal | | | | 0 | 999.9999 | | Light Duty | | | Mir | Front End | XX4L | Delete LD/E-GL-880196 Delete LD/E-GL-880196 Delete LD/E-GL-880196 | |
| | Model Type Highway /E Value Mir Uhroended Unadjusted Model Type Combined FE Value | Provide the manufacture calculated unrounded/ unodigited production combined fiel economy s- cycle calculated values). This value (not value s). This value inst required for approaches. Conomy- Calculation. Approaches. Conomy- Calculation. | FuelEcoromy, abelfadomissio of see Ecoromy, abelfadomissio | | TRUE | value) (1 per Fuel Usage value) | N(7.4) [| Decimal | | | 7 4 | 0 | 990.0999 | | Light Duty | FE Label | | Mfr | Front End | XML_XML | Delete LD/E-GL-880195 Delete LD/E-GL-880196 Delete LD/E-GL-880196 | Nucl be present 2 G. 49 (fuel Usage) UE and 7E, else, must not be present. |
| | | If the whick- specific 5- cycle label calculation approach is used to generate the FE Label, provide the manufacture r-calculated unrounded to Model Type city fuel economy value. This value has been adjusted Model Type world driving shortfall, but has not been rounded to the label- | FasiEuroom, dekiBahmiski nFasiEuroom, dekiBahmiski Mandeturur TacQodinoom, dekiBah Mandeturur Jacobahmiski Jacobahmiski | ChiFuelEconomyValue | TRUE | (1 per Fuel Usage value) | N(7.4) [| Decimal | | | 7 4 | 0 | 990 9999 | | Light Duty | FE Label | | Mir | Front End | XML | Delete LDFE-GL-89020s Delete LDFE-GL-89020b Delete LDFE-GL-89020b | New has present # 66-79 ~ 16-6897 or 1007, etc. |

| EPA Data Element | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Descript Mi ion Len | n <u>Max</u> | Pattern | Total Fracti | ion its Min Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Collecti on Point | Collecti | Applicable Business Rules | English validation rules |
|------------------------|---|---|--|------------------------------|----------|-----------------------------------|-----------------------|--|--------------|---------|--------------|----------------------|-----------|----------------|------------|----------|-----------------|------------|----------------------|------------|---|--|
| | Label Information | specific 5- cycle label calculation approach is used to generate the FE Label, provide the manufacture r-calculated adjusted Model Type conomy value. This been adjusted using the 5- cycle method for the real- world driving shortfall, but has not fall, but has not | FuelEconomyLabelSubmissio nFuelEconomyLabelSubmissio nFuelEconomyLabelSubmissio nFuelEconomyLabelSubmission | | TRUE | (1 per Fuel Usage | | | | | | | | | | | | | Front End | | Directo LDR-64-880396 Directo LDR-64-880396 Directo LDR-64-880396 Directo LDR-64-880396 | |
| | Yabe | If the vehicle specific 5- cycle label calculation approach is used to generate the FE Label, provide the manufacture r-calculated adjusted Model Type ecombined fuel economy value. This been adjusted using the 5- cycle method for the real- word driving shortfall, but has not | FuelEconomyLabelSubmissio nifueEconomyLabelSubmissio nifueEconomyLabelSubmissio nifueEconomyLabelSubmissio | CombinesFuelEconomytV | TRUE | <pre>table</pre> | N(7.4) E | Decimal | | | 7 4 | 0 | 999,9999 | | Light Duty | FE Label | | Mir | Front | XM. XM. | Delete LD-FE-GL-89920c Delete LD-FE-GL-89920s Delete LD-FE-GL-89920s Delete LD-FE-GL-89920s | Must be present if G. 72 - 30 DRF or TPF, then, must not be present. |
| Adj | r Calculated Rounded Junited Model Type City FE | Provide the manufactur er- calculated, rounded and adjusted Model Type conomy value. This adjusted value economy value. This adjusted value driving and has been rounded for a whole number for label This value. | FuelEconom yLabelSubmissio niFuelEconom yLabelSubmissio nuElsageArdEconom yDeatailu Manufacture Catrulate(Nourd diciguis edited) rup yDeataila | ChyFutHConomyAumber | TRUE | (1 per Fuei Usage value) | N(3) | Integer | | | | 0 | 999 | | Light Duty | FE Label | | Mfr | Front End | XML | Delete (DFE-GL-88021a Delete (DFE-GL-88021b Delete (DFE-GL-88023) New LDFE-GL-88114 New LDFE-GL-88111 New LDFE-GL-88111 | Matt in present # 20-15 - Tr. |
| Mi Adj GL-98 Hég | r Calculated Rounded Jurated Model Type Jury PF Value | manufactur er- calculated, rounded and adjusted Model Type highway fuel economy value. This adjusted value reflects real world driving and has been rounded to a whole | FuelEconomyLabelSoltmissio nifuelEconomyLabelSoltmissio NaturalschureCalculateRoum/Deatails/ NaturalschureCalculateRoum/Deatails | HighwayFuelEconomyNum Eer | TRUE | s (1 per Fluel Usage value) | N(3) | Integer | | | | 0 | 999 | | Light Duty | FE Label | | Mfr | Front End | XML | Dente LD/FLGL-80011a Delter LD/FLGL-80011b Delter LD/FLGL-80104 New LD/FLGL-80104 New LD/FLGL-80104 New LD/FLGL-80104 New LD/FLGL-80104 | Mark in press # G.45 - SF. |

Collecti Collec

| EPA Data Element Number Fuel Econor | Long Name | Description | Parent's Name | XMLTag | Required | Multiplicity | Basic Data Type | Data Type Descript ion Le | Min Ma angth Leng | x_ th Pattern | <u>Total</u> Digits | | n Value | Max Value | | Allowed Values | Indus | ry Proces | 55 | Notes/Questions | Originator | Collecti on Point | Collecti on Type | Applicable Business Rules | English validation rules |
|--|--|--|---|---|---------------|--|-----------------------|------------------------------------|----------------------|--|------------------------|---|---------|-----------|---------------------------------|--------------------------|---------|--------------|----------|---|------------|----------------------|---------------------|---|---|
| | Manufacturer-Calculated Highway Fuel Economy Labe Jaro Lover Range Value | Enter the manufacture r-calculated highway lower range value using the official highway city fuel e conomy label value. | FuelEconomyLabelSubmissic nFuelEconomyLabelDetaile/F uelUsageArdiconomyOstabi ManufacturerHighwayLabelDe alis | t MiesPerGallonLowerRang eNumber | TRUE | 1-2 (1 per Fuel Usage value) | N(3) | Integer | 1 3 | | | | 0 | 999 | 1-999 | | Light C | iuty FE Labi | pel | | Mr | Front End | XML | Delete LD-FE-GL-BR026a Delete LD-FE-GL-BR026a | Must be present & GL-15 TeV. |
| | Manufacturer-Calculated Highway Fuel Economy Labe MRGU Upper Range Value | Enter the manufacture r-calculated highway upper range value using the official highway | FuelEconomyLabelSubmissic n/FuelEconomyLabelDetails/F uelUsageArdiconomyOstabi ManufacturerHighwayLabelDe alis |) // t MilesPerGallonUpperRang eNumber | TRUE | 1-2 (1 per Fuel Usage value) | N(3) | Integer | 1 3 | | | | 0 | 999 | 1-999 | | Light C | luty FE Labi | cel | | Mr | Front End | XML | Deine LAFE-GL-BROSEs Deine LAFE-GL-BROSEs | |
| GL-103 | Model Type Driving Range (PA Method) (mmis) | driving range (minimum and maximum, if applicable) for this model type's fuel usage value following EPA guidance. This must be provided for all alternative fuels and also for models | en FasEconom, JabelSubmissi AfastEconom, JabelSubmissi | | | (1 per Fuel Usage | (4/20) | String | 1 3 | 'nnn' = Single range; 'nnnhnn '= Shortes' and longest ranges for this model type that have availabl e muliple fuel tanh capaciti e es. | | | | 223 | 1733 | | Light C | | | hnn' - Single range Innnhm' - Shortest and longest Jages for this model (spe Balt have capacities that | Mr | Front End | XML | LD-FE-CL-80046 New LD-FE-CL-80046 New LD-FE-CL-80046 Delete LD-FE-CL-80028 | Request 6(1, 15 – DF or 16F Request 6(1, 15 – DF or 16F Request 6(1, 15 – DF or 16F EVA Model Type Driving Range (CL-101) is not allowed otherwise it is required for all EVA Model Type Driving Range (CL-101) is not allowed otherwise it is required for all EVA Model Type Driving Range (CL-101) is not allowed otherwise it is required for all EVA Model Type Driving Range (CL-101) is not allowed otherwise it is required for all |
| | (Erkinetikoj (urminis) Maximum Ethanol Percentage | eftanol percentage | FuelEconom yLabelSubmissic nFuelEconom yLabelDetails;# uelUsageAndEconom yDetails | | FALSE | (1 per Fuel Usage value) | N(3,1) | Decimal | | | 3 | 1 | 0 | 99.9 | | | Light C | | | capatures. | Mfr | Front End | XML | Update LD-FE-GL-6R029 | ner verge in skang groome ant weve. Required FGL-80 (Fiel Usage) = Er ((Sharo) or one of the Fuel Usage Types that legtes with 'Cr (Baseline); otherwise not allowed. |
| GL-105 | Maximum Bio-diesel Percentage | manufacture r. | FuelEconomyLabelSubmission n/FuelEconomyLabelDetails/F uelUsageAndEconomyDetails | Maxim um Biodies el Percent ageNum ber | FALSE | 12 (1 per Fuel Usage value) | N(3) | Integer | | | 3 | 0 | 0 | 100 | | | Light D | uty FE Labr | oel | | Mr | Front End | XML | Update LD-FE-GL-BR030 | Required if GL-89 = 10 ⁻¹ or-DU, otherwise not allowed. |
| GL-106.1 | Certification Region Code | Enter all applicable certification region codes for this FE Label. This was previously referred to as 'sales area' in CFEIS. | FuelEconomyLabelSubmissic nFuelEconomyLabelEconomyLabelEconomyLabelEconomyLabelEconomyLabelEconomyLabelEconomyLabelEconomy | A CertificationRegionCode | TRUE | 1.2 (1 for each certification region code) | A(2) | Enumer ation | | | | | | | CA = California FA = Federal | + CAA Section 177 states | Light D | utyFE Labi | pel | | Mfr | Front End | XML | | |
| NEW GL-106.2 | Actual Model Sales Area | Select all applicable US states and territories where this vehicle model is offered for sale. | FuelEconomyLabelSubmissik nFuelEconomyLabelBetails/J delTypeDEtails/J | ActualModelSalesArealde | TRUE | 1.n | A(2) | Enumer ation | | | | | | | Display full list | of all US states | Light (| uly FE Labo | a Sel | Manufacturers will select all that apply. | Mfr | Front End | XML | | |
| | | Verify- generated- footprint- | FuelEconomyLabelSubmissis n/FuelEconomyLabelDetails/f odelTypeDetails/ModelTypeFi | 2 4 2 | FALSE | 1_n (1 for each- footprint per FE | | | | | | | | | | | | | 2 14 | For web ecreens, Verify should automatically increment the index- when mfr chooses to add another- footprint. For batch, does the mfr- | | Front- End | | | Roquired # Class Code (CL-5) -== '10', else optional. |
| GL 106.5 | Hodel Type Footprist. Description | Enter the manufactur origination (opprint) (op | Res Scoren, Labs Scheller Adultic connut, Labs Scheller Adultic connut, Labs Scheller | A MadelTypeTapation | FALSE TRUE | Lun(I-for each footprint-put FE Laber) | A(300) | string | 1 300 | | - | | | | | | Light | uty FELabo | 201 | | | Front- | XAAL | Delec LDFEQL 6801 | Required & Class Code (CL-0) 10°, vite optimul. |

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Inertia Weight Clas

420d11003.xls FE Label+

1...n (1 for each Base Level within a Model Type)

TRUE

Light Duty FE Label English validation rules

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LD-FE-GL-BR052 LD-FE-GL-BR063 LD-FE-GL-BR065 LD-FE-GL-BR065 LD-FE-GL-BR065 LD-FE-GL-BR076 LD-FE-GL-BR070 LD-FE-GL-BR071 LD-FE-GL-BR071 LD-FE-GL-BR074 LD-FE-GL-BR074 LD-FE-GL-BR077

1.6



420d11003.xls FE Label+



| EPA Data Element Number Fuel Econo | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Descript M ion Len | lin <u>Max</u> ngth Length | h. Pattern | <u>Total</u> Frac Digits al Di | tion gits Min Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Collecti Originator on Point on Type | Applicable Business Rules | English validation rules |
|---|--|--|---|--|----------|---|-----------------------|---------------------------------------|-------------------------------|-----------------|-----------------------------------|------------------------|----------------------------------|--|------------|----------|---|---|----------------------------------|--|
| GL-120.4 | EPA-Calculated 5-cycle Unrounded Adjusted Configuration City FE Value | Verify- calculated 5- cycle unrounded adjusted configuratio n city fuel economy value. | ver FuelEconomyLabelSubmi ssion/ver-RuelEconomyLabel Details/ver-EXAGeneratedPuel EconomyDetails/ver-Calculate divulUtagadn/deConomyDetails/ver-CalculatedDasgate alta/ver-CalculatedDasgate.vevID estails/ver-CalculatedConfiguration RiveOcycloAdjustedUnrounded Details | CityFuelEconomy4Value | FALSE | 1n (1 for each Configuration within each Base Level within a Model Type) | 1) N(7,4) | Decimal | | | 7 4 | . 0 | 999.9999 | | Light Duty | FE Label | These fields already exist in the Verify database but were not included in the data requirements spreadsheet | Back Assigne Verity End d | | |
| GL-120.5 | EPA-Calculated 5-cycle Unrounded Adjusted Configuration Highway FE Value | Verify- calculated 5- cycle unrounded adjusted configuratio n highway fuel economy value. | ver-SuelEconomyLabelSubmi ssion/ver-FuelEconomyLabel Details/ver-EPAGeneratedFuel EconomyDetails/ver-CalculatedFuel EconomyDetails/ver-CalculatedEconfigur als/ver-CalculatedEconfiguration RevCycleAdjustedUnrounded Details | HighwayyFuelEconomy4Va Iue | FALSE | 1_n (1 for each Configuration within each Base Level within a Model Type) | 1) N(7.4) | Decimal | | | 7 4 | 0 | 999.9999 | | Light Duty | FE Label | These fields already exist in the Verify database but were not included in the data requirements spreadsheet | Verity Back Assigne End d | | |
| GL-120.6 | EPA-Calculated 5-cycle Unrounded Adjusted Configuration Combined FE Value Sub-configuration Info (Multi is | Verify- calculated 5- cycle unrounded adjusted configuratio n combined fuel economy value. subconfigurati | ver-FuelEconomyLabelSubmi ssion/ver-FuelEconomyLabel Details/ver-EPAGeneratedFuel EconomyDetails/ver-Calculate/ dFuelUsageAndEconomyDeta ils/ver-CalculatedConfigur asionDetails/ver-Configuration FueCycleAdjustedUnrounded Details ons may exist within a Configu | CombinedFuelEconomy4V alue ration) | FALSE | 1n (1 for each Configuration within each Base Level within a Model Type) |) N(7,4) | Decimal A su | ıb-configurat | tion is defined | 7 4 d as a unique | 0 combination c | 999.9999 f equivalent test we | ight, and road-load horse power, etc. within a c | Light Duty | FE Label | These fields already exist in the Verify database but were not included in the data requirements spreadsheet | Verity Back Assigne End d | | |
| GL-121 | Subconfiguration Index | index number assigned by the manufacture r to identify this subconfigur ation within a configuratio n. Subconfigur ation Index is used to subconfigur ation Index is used to configuratio n that configuratio n that configuratio that configurati | FuelEconomyLabelSubmissio officielEconomyLabelSubmissio unisConfiguratorDeataisAk unisConfiguratorDeataisA | | TRUE | Lue (1 for each Subconfiguration within each Base Level With Type) | N(2) | | | | | | 29 | | Lieht Duy | FE Label | | Front Mr End XML | LD-FE-GL-BR054 | |
| | Total Road Load Horsepower | Enter the total road load horsepower at 50 mph | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/M odelTypeDetails/BaseLevelDe tails/ConfigurationDetails/Sub ConfigurationDetails | | TRUE | 4-m (1 for each Subconfiguration within each Configuration within each Base Level within each Model Type) | N(3,1) | Decimal | | | | | 99.9 | | Light Duty | | | Front Mir End XML | LD-FE-GL-BR056 | |
| GL-123 | Equivalent Test Weight (ETW) | Enter the Equivalent Test Weight (ETW) within a specified Inertia Weight Class. | FuelEconomyLabelSubmissio nFuelEconomyLabelDetailsM oddTypeOEtails/SabeLevelDe tails/ConfigurationDetails/Sub ConfigurationDetails | EquivalentTestWeightValue | TRUE | 4 (1 for each Subconfiguration within each Configuration within each Base Level within each Model Type) | | Enumer ation 1 | 1 5 | | | 0 | 14000 | 1000, 1125, 1250, 1375, 1500, 1625, 1750, 1 2000, 2125, 2250, 2375, 2500, 2625, 2750, 2 2000, 3125, 3250, 3375, 3300, 3625, 1750, 3 2000, 3261, 3500, 6400, 6500, 7000, 7500, 1000, 1500, 1200, 1500, 11000, 11500, 14000 | | FE Label | | Front Mir End X04 | LD-FE-GL-88056 LD-FE-GL-88052 | Must be a valid Equivalent Test Weight (ETW) within a specified Ineria Weight Class as defined in paragraph 40 CFR 86.129 |
| GL-125 | | Enter the altitude for which the vehicles within this subconfigur ation are offered for sale. | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails.M odeTypeDetails:BaseLevelDe taiki:ConfigurationDetails ConfigurationDetails | SaleAltitudeCode | TRUE | 4-m (1 for each Subconfiguration within each Configuration within each Base Level within each Model Type) | A(1) | Enumer ation | | | | | | A – All sittude L – Low altitude only H – High altitude only | Light Duty | FE Label | | Front Mir End XML | | |
| GL-125.0.1 | EPA-Calculated Unrounded Unadjusted Subconfiguration City FE Value | Verify- calculated unrounded unadjusted subconfigur ation city fuel economy value. | ver-EuelEconomyLabelSubmis sion/ver-EuelEconomyLabelSubmis sion/ver-EuelEconomyLabelDe tails/ver-ERAGeneratedFuelEc onomyDetails/ver-CalculatedF uelL'sage/ArdEconomyDetails/ver-CalculatedSubConfig arter-CalculatedSubConfig uration/Details/ver-SubConfig uration/Details/ver-SubConfig uration/UnadjustedUnrounded Details | CityFuelE: onomy4Value | FALSE | 1 for each Subconfiguration within each Configuration within each Base Level within each Model Type | N(7,4) | Decimal | | | 7 4 | 0 | 999.9999 | | Light Duty | FE Label | These fields already exist in the Verify database but were not included in the data requirements spreadsheet | Back Assigne Verify End d | | |
| GL-125.0.2 | EPA-Calculated Unrounded Unadjusted Subconfiguration Highway FE Value | Verify- calculated unadjusted subconfigur ation highway fuel economy value. | ver-FuelEconomyLabelSubmis sion/ver-FuelEconomyLabelSubmis sion/ver-FuelEconomyLabelSo- talis/ver-F2AculatedF uelUs age/ArdEconomyOetails/ ver/CalculatedConstguration s/ver-CalculatedConfiguration Jean/CalculatedConfiguration Jean/CalculatedConfiguration Jean/Sub-Config uration/Details/ver/Sub-Config uration/Data/ustedUnrounded Details | HighwayyFuelEconom y4 Va Iue | FALSE | 1 for each Subconfiguration within each Configuration within each Base Level within each Model Type | N(7.4) | Decimal | | | 7 4 | 0 | 999.9999 | | Light Duty | FE Label | These fields already exist in the Verify database but were not included in the data requirements spreadsheet | Back Assigne Verity End d | | |

| EPA Data Element | | | | | | | Basic Data D | Data Type Descript Mi | in Max | Pattern Di | otal Fractio | n | | | | | | Collecti Collecti | | |
|-----------------------|--|---|---|--|----------|---|-----------------|-----------------------------|--------------|-----------------|----------------------|--------------------|---------------------------------------|--------------------------------------|----------------------------------|----------|---|--------------------------------|--|--|
| Number Fuel Econor | Long Name my Label Information | Description | Parent's Name | XMLTag | Required | Multiplicity | Type | ion Len | gth Length | Pattern Di | gits al Digit | s <u>Min Value</u> | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator on Point on Type | Applicable Business Rules | English validation rules. |
| GL-125.0.3 | EPA-Calculated Unrounded Unadjusted Subconfiguration Combined FE Value | Verify- calculated unrounded unadjusted subconfigur ation combined fuel n economy value. | sion/ver-Fusileconomy.tabelDe tails/ver-EPAGeneratedFuelEc onomyDetails/ver-CalculatedF uelUsage/ndEconomyDetails/ ver-CalculatedGaseLevelDetail s/ver-CalculatedGaseLevelDetail s/ver-CalculatedGaseLevelDetail urctaionDetails/ver-SubConfig urationDtails/ver-SubConfig urationDnadjustedUnrounded Details | CombinedFuelEconomy4V alue | FALSE | 1 for each Subconfiguration within each Configuration within each Base Level within each Model Type | N(7,4) D | Decimal | | | 7 4 | 0 | 999.9999 | | Light Dut | ÆLabel | These fields already exist in the Verify database but were not included in the data requirements spreadsheet | Back Assigne Verify End d | | |
| GL-125.0.4 | EPA-Calculated 5-cycle Unrounded Adjusted Subconfiguration City FE Value | Verify- calculated 5 cycle unrounded uadjusted subconfigur ation city fuel economy value. | ver-FuelEconomyLabelSubmis sion/ver-FuelEconomyLabelSubmis ellasaver-EPAGeneratedFuelEc- onomyDetals/ver-CalculatedF ver-CalculatedBaseLevelDetali selt-CalculatedDaseLevelDetali selt-CalculatedDaseLevelDetali selt-CalculatedSubCont gurationDetalis/ver-SubContig urationDetalis/ver-SubContig urationDetalis/ver-SubContig urationDetalis/ | CityFuelEconomy4Value | FALSE | 1 for each Subconfiguration within each Configuration within each Base Level within each Model Type | N(7,4) D | Decimal | | | 7 4 | 0 | 999.9999 | | Light Duty | FE Label | These fields already exist in the Verily database but were not included in the data requirements spreadsheet | Back Assigne Verify End d | | |
| GL-125.0.5 | EPA-Calculated 5-cycle Unrounded Adjusted Subconfiguration Highway FI | Verify- calculated 5 cycle unrounded uadjusted subconfigur ation highway fuel economy | ver-FuelEconomyLabelSubmis sion/ver-FuelEconomyLabelDe tails/ver/EPAGeneratedFuelEc nom/Details/ver-CalculatedFuelEc uelUsage/ndEconomyDetails/ ver-CalculatedDaseLevelDetail s/ver-CalculatedDonfguration Details/ver-CalculatedDonfguration Details/ver-CalculatedDonfguration Juration/FuelSycleAdjustedUnro | HighwayyFuelEconomy4Va | FALSE | 1 for each Subconfiguration within each Configuration within each Base Level within each Model | | | | | | | 999.9999 | | | | These fields already exist in the Verify database but were not included in the data requirements | Back Assigne Verfy End d | | |
| | EPA-Calculated 5-cycle Unrounded Adjusted Subconfiguration Combined | value. Verify- calculated 5 cycle unrounded uadjusted subconfigur ation combined fuel i economy | unded/etails ver-FuelEconomyLabelSubmis isolvare-FuelEconomyLabelDe tails/ver-EPAGeneratedFuelEc onomyDetails/ver-CalculatedF uelUsageAndEconomyDetails/ver-Calculated Seer-CalculatedConfiguration Details/verCalculatedSubcConfig urationFue/SytekAfjustedUmor autoinFue/SytekAfjustedUmor | Lue CombinedFuelEconomy4V | | Type 1 for each Subconfiguration within each Configuration within each Base Level within each Model | N(7,4) D | Jecimal | | | 7 4 | 0 | | | Light Dut | FE Label | spreadsheet These fields already exist in the Verify database but were not included in the data requirements | Back Assigne | | |
| GL-125.0.6 | FE Value Sub-configuration Sales Info | | undedDetails configuration-sales may exist w | alue rithin a Subconfiguration) | FALSE | Type 1-m (1 for each | N(7,4) D | Decimal A sul | b-configurat | on is defined a | 7 4 s a unique co | 0 mbination of | 999.9999 equivalent test weight, a | nd road-load horse power, etc. withi | Light Dut in a configuration. | FE Label | spreadsheet | Verify End d | | |
| GL-125.5 | Manufacturer Code | Enter the applicable manufacture r code for this subconfigur ation sales information. | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/M odelTypeDetails/BaseLevelDe tails/ConfigurationDetails/SubConfi gurationDetails/SubConfi gurationSalesInformationDetai Is | EPManufacturerCode | TRUE | Subconfiguration sales row within each Subconfiguration within each Configuration within each Base Level within each Model Type) | A(3) | String 3 | 3 | [A-ZD- 9](3) | | | | | | | | Verify End XML | LD-FE-GL-BR059 New LD-FE-GL-BR117 | |
| GL-125.6 | Division Code | Enter the applicable manufacture r code for this subconfigur ation sales information. | FuelEconomyLabelSubmissio nrFuelEconomyLabelDetails oderTypeDetails/BaseLevelDe tails/ConfigurationDetails/Sub ConfigurationDetails/SubConfi gurationSalesInformationDetai Is | ManufacturerDivisionCode | TRUE | 4-m (1 for each Subconfiguration sales row within each Subconfiguration within each Configuration within each Base Level within each Model Type) | N(2) | Integer 1 | 2 | | | 1 | 99 | | | | | Manufactur Front er End XML | LD-FE-GL-88060 New LD-FE-GL-88096 New LD-FE-GL-88117 | |
| GL-125.7 | Carline Code | Enter the applicable manufacture r code for this subconfigur ation sales information. | FuelEconomyLabelSubmissio n=FuelEconomyLabelDetaitsM odelTypeDetails/BaseLevelDe tails:ConfigurationDetails/SubConfi gurationDetails/SubConfi gurationSalesInformationDetai Is | CarlineCode | TRUE | tan (1 for each Subconfiguration sales row within each Subconfiguration within each Configuration within each Base Level within each Model Type) | N(3) | Integer 1 | 3 | | | 1 | 999 | | | | | Front Mir End XML | LD-FE-GL-BR061 New LD-FG-GL-BR096 New LD-FG-GL-BR17 | NBW: The combination of Carline Manufacturing Code (CL-125.5). Division Code (CM- 125.6), Carline Code (CL-125.7). Transmission Type (L-CF), Transmission Cose) (CL-49), Transmission Creegor Coar (L-C), Total Number of Transmission Rears (CL-17), and Drive System (CL-72) must tests as a certified model in the Test Group dataset (T(G) for the Test Oroug (CL-15). |
| | | Enter the applicable test group name for this subconfigur | FuelEconomy, LabelSubmission nFuelEconomy, LabelDeallis M odel TypeDetails/Baset.exelDe ConfigurationDetails/Sub-Configur | | | 4-n (1 for each Subconfiguration sales row within each active sales and the sale within each Configuration within each Base Level within each Model Type) between public activity and configuration within each Societ and within activity activity and activity acti | | | | | | | | | | | | Front | LD-FE-GL-RROM New LD-FE-GL-RR19 | TestGroup must have already been certified. If hell Economy Latel Calculation Approach (G79) is equal to SC-MOV (Modified S- rych) have Test Graup (G.12) must have valid values (non-Null) or EPA Coly Limus Value (TC-213.1) and EPA Coly Limus Testeled (TC-213.2) and EPA Coly Limus Value (TC-213.2), must be greater than or equal to BA Coly Limus Theshold (TG- 13.3). If hell Economy Label Calculation Approach (G79) is equal to SC-MOV (Morried S- rych) latin TSE Graup (G.12) must have used values (non-Null (Net PPA Coly Limus Theshold (TG-213.4), and EPA Highway Limus Threated(TG-213.4), and EPA Coly Limum Value (TG-213.4), numb be greater than or equal to BA Coly Limus Threated(TG-213.4), and EPA Highway Limus Threated(TG-213.4), and EPA Coly Limus Value (TG-213.4), numb be greater have or equal to PA Highway Limus Values(TG-214.4) must be greater than or equal to PA Highway Limus Values(TG-214.4) |
| GL-126 | Test Group | ation. | Is | TestGroupNam e | TRUE | each Medel Type) | A(12) | String 12 | 2 12 | \vdash | _ | | | | Light Dut | FE Label | TG-2 | Mir End XML | New LD-FE-GL-BR119 New LD-FE-GL-BR118 | |
| GL-124 | Subconfiguration Projected Sales | Enter the projected sales for this subconfigur ation. | FuelEconomyLabelSubmissio nFuelEconomyLabelDetailsA odeTypeDetails/BaseLevelDe tails/ConfigurationDetails/SubConfi gurationSalesInformationDetail Is | SubConfigurationProjected SalesNumber | TRUE | Subconfiguration sales row within each Subconfiguration within each Configuration within each Base Level within each Model Type) Lon (1 Second Distribution within each Base Level within each Model Type) | N(6) | Integer | | | | 1 | 999999 | | Light Dut | FE Label | | Mir End XML | | Masi o 0. |
| | Test Vehicle Info (Multiple vehicles with multiple tests may exist within a sub- configuration) | | | | | | | | | | | | | | | | Must be present when Subcortiguration Index (GL-121) is 1 to 49 and Configuration Index (GL 117) is 1 to 499 which indicates that the subcortiguration is represented by a tested vehicle; otherwise, must not present. | | | Nucl to present when Subconfiguration index (GL-121) is 1 to 49 and Configuration index (GL-171) is 1 to 49 which indicates that the subconfiguration is represented by a tested vehicle: otherwise, must not present. |

| EPA Data Element Number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Data Des | ata. ge cript <u>Min</u> | Max Length | otal Fract | tion gits Min Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Collecti on Point | Collecti | Applicable Business Rules | English validation rules |
|-------------------------------|----------------------------------|---|---|---------------------|---------------|---|-----------------|--------------------------------|---------------|------------|------------------------|-----------|---|------------|----------------------------|---|------------|----------------------|--------------------------|--|--|
| Fuel Econo | LongName yy Label Information | applicable Test Number for this FE Label that was previously assigned by Verify in Test Number must be entered when Subconfigur aton Index (GL-121) is 1 to 49 and Configuration in Index (GL-121) is to 49 and Configuration | | | | | | | | | | | | | | | | | | LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC05 LD.FE.GL.BRC07 LD.FE. | |
| GL-127 | Test Number | 499 which indicates that the subconfigur ation is represented by a tested vehicle. | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetails/M ode/TypeDetails/BaseLevelDe tails/ConfigurationDetails/Sub ConfigurationDetails/TestVehi cleDetails Te | es Numberldentifier | FALSE TRUE | 1_n (1 .n for each Toet within each Subconfiguration within each Configuration within each Base Level within each Model Type) | A(12) Str | ing | | | | | | Light Duty | FE Label | Ti-1 | Mfr | Front End | XML | New DF-5G-BH126 New DF-5G-BH127 New DF-5G-BH128 New DF-5G-BH129 New DF-5G-BH130 New DF-5G-BH131 New DF-5G-BH131 New DF-5G-BH142 New D-F-5G-BH143 | Test Number must exist in Verly Test Info. Test Number must be present when Subconfiguration Index (GL-121) is 1 to 49 and Configuration Index (GL-11) is 1 to 449 which indicates that the subconfiguration is represented by a tabled whicle. Test Category for this Test Number must = "FTP", US06"; SC03", COLD or HWY. |
| GL-128 | Vehicle ID | A unique alphanumer ic identifier assigned by the manufacture r to each test vehicle. A number | | | TRUE | 1n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type) 1n (1 for each Test | A(20) Str | ing 1 | 20 | | | | | Light Duty | FE Label | Find Vehicle ID'(TI-4) via Test Number (GL-127). TI-4> VI-2 | Verify | Back End | Pre- existing data | New LD-FE-GL-BR120 | |
| GL-129 | Vehicle Configuration Number | previously assigned to specify a unique test vehicle configuratio n. | | | TRUE | within each Subconfiguration within each Configuration within each Base Level within each Model Type) | N(2) Inte | iger | | | 0 | 99 | | Light Duty | FE Label | Find Vehicle Configuration Number (TI-5) via Test Number (GL-127). TI-5 -> VI-3 This field will automatically be filled | Verify | Back End | Pre- existing data | New LD-FE-GL-BR120 | The Valida ID (GL-123) and Valida Configuration Number (GL-128) combination must have associated Test Procedure Dynamoneter Confficients Category (H-453) equal to "CH-E" (ClynhopmaySwy). |
| GL-130 | Test Category | The applicable test category for this test. | | | TRUE | 1n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type) | A(6) at | imer | | | | | FTP - Federal Test Procedure USG - USG SC03 - SC03 FCW - Esposite CW - Esposite CW - Esposite CW - Construction SPT - Spitaata CW - Ch-cast Returning Vapor Recovery NCHEE - Non-City, Non-Highway Erhaust URBRIG - UN-Cast Returning Vapor Recovery NCHEE - Non-City, Non-Highway Erhaust URBRIG - UN-Cast Returning Vapor Recovery NCHEE - Non-City, Non-Highway Erhaust URBRIG - UN-Cast Returning Vapor Recovery NCHEE - Non-City, Non-Highway Erhaust URBRIG - UN-Cast Returning Vapor Recovery | Light Duty | Certification Test Data | based on the test procedure (in Test's seciol 30:32005 with the test number. A unit dest number is required for free set categories. (i) (0) = 3.27,34,34,47 FTP-2.21,12,12,31,35,41,45, (i) (2) = 2.37,34,34,47 FTP-2.21,12,12,31,35,41,45, (i) (2) = 2.37,34,45 (i) (2) = 2.37,45 (i) (2) | Verify | Back End | Pre- existing data | | |
| NEW: GL- 130.2 | Test Fuel Category | This field will automatical ly be filled based on the Test Fuel Category (TI- 44) in Test Information) | | | TRUE | 1 per test fuel type | Enu A(3) ati | mer | | | | | AEEL = Bectricity CNG = Hatural Gas D = Desel E = Bhand G = Gasolae H = Sylcogen M = U = D = M | Links Date | Test Group | $\begin{array}{l} \textbf{BE ZL} = 6.5 \\ \textbf{CNR} = 1.0, \ 6.1 \\ \textbf{N} = 9, 19 \\ \textbf{R} = 9, 2, 7, 20, 43, 44, 45, 71 \\ \textbf{G} = 1, 6, 7, 8, 22, 23, 24, 28, 26, 27, \\ \textbf{H} \\ \textbf{H} = 50 \\ \textbf{LPG} = 42 \\ \textbf{W} = 31, 32, 23, 34 \end{array}$ | Verify | Backen | Pre- existing | | |
| NEW: GL-130.5 | Text Scycle Ostegery | | | | TRUE | 1n (1 for each Test within each Subconfiguration within each Configuration within each Base Lived within tesh Model Type) | | mer | | | | | PTP75 = Foderal Test Procedure (75 °T) (FF20 - Foderal Test Procedure (28 °T) US64 = US64 US64 = US64 = US6 | Light Duty | Certification Test Data | This field will associately be filled based on the tast processing with the tast analysis of the second of the destandance of the second of the second of the second of the destandance of the second of the second of the second of the destandance of the second of the second of the second of the destandance of the second of the second of the second of the destandance of the second of the destandance of the second of | Verify | Back | Pre- exising data | New LD-R-GL-88121 New LD-R-GL-8812 New LD-R-R-GL-8812 New LD-R-R-GL-8812 | NDW: Test 5-Cycle Category (Cd. 136.3) cannot be equal to "Mall" NDW: Test 5-Cycle Category (Cd. 136.3) cannot be equal to "Mall" NDW: First Economy Label Categories Approach (Cd. 75), "EC-CHO" them Test 5- Cycle Category (Cd. 136.3) must equal "FTP75", "NTV", and "CdHO" them Test 5- Cycle Category (Cd. 136.3) must equal "FTP75", "NTV", and "CdHO" them Test 5- Cycle Category (Cd. 136.3) must equal "FTP75", "NTV", and "CdHO" them Test 5- Cycle Category (Cd. 136.3) must equal "FTP75", "NTV", and "CdHO", all other memory atoms (Excleding Mall et and category (Cd. 136.3), "EC-CHO" them Test 5- Cycle Category (Cd. 136.3), "NTV", and "CdHO", and "CdHO" them Test 5- Cycle Category (Cd. 136.3), "TERT Test Name (CdHO)", and "CdHO" them Test 5- Cycle Category (Cd. 136.3), "TERT Test Name (CdHO)", and Test 5- Cycle Category (Cd. 136.3), "TERT Test Name (CdHO)", and Test 5- Cycle Category (Cd. 136.3), "TERT Test Name (CdHO)", and Test 5- Cycle Category (Cd. 136.3), "TEST 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test Name 15- Social Class Read Mallinsion Name (Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test Name 15- Cycle Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test Name 15- Cycle Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Mall Chategory Cd. 137.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 136.3), "Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 136.3),"Test 5-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Category (Cd. 146.3),"Test 2-Cycle Category (Cd. 136.3),"TTP75", "Thm Test 140- Test 245,"T, "Test 246.3,", and "TE 246.3"," The TE 246.4"," and |

| EPA Data Element | | | | | | | Basic | Data Type Descript Min | | Total | Enstin | | | | | | | | Collection | Cellecti | | |
|-----------------------|-------------------------------------|---|--|---------------------------|----------|---|--------|------------------------------|-------------|---------------|-----------------------------|------------------|---------------------------------------|---|------------|----------|--|------------|--------------|--------------------------|---|---|
| Number Fuel Econor | Long Name ny Label Information | Description | Parent's Name | XML Tag | Required | Multiplicity | Iype | ion Length | h Length Pa | attern Digits | I Fraction s al Digits I | <u>Min Value</u> | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator | on Point | Collecti on Type | Applicable Business Rules | English validation rules |
| NEW: GL-130.5 | Text 5-Optic Category- Centimed | A valid test number is required for these fuel categories | | | | | | | | | | | | | | | | | | | | NIV: I Test Rust Gasgory (GL-130.2)+"G', "D', "CND" or "LPG" and Rust Economy Label Gilz-Salation Agence In (GL-73)+"G', "D', "CND" or "CS GIO' and Hydri Network (GL-73) and Hydra CH CARACTER (GL-73)-"G', "G', "G', "G', "G', "G', "G', "G', |
| NEW: GL-130.5 | Teat 5-Cycle Category- Continued | | | | | | | | | | | | | | | | | | | | | NW, F Test 5 Cycle Category (GL-192.8-1997" Than Test Number (GL-127) must have escatated Test ResultBinksion Nume (TH-19) equation "MRNTE", (Test ResultBinksion Nume() 177 EB0 T, 'TEB0 T, 'TEB0 T, 'ITEB0 T, and 'TEB0 C and rest ResultBinksion Nume (Lincolated Number 2006) (Lincolated Number) and Test ResultBinksion Number) (Lincolated Number) (Lincolated Number) (Lincolated Number) and Test Fall Economy Label Catalation Results (Lincolated Number) (Lincolated Number) (Lincolated Number) (Lincolated Number) (Lincolated Number) (Lincolated Number) (Lincolated Number) (Lincolated Number) ResultBinksion Number) (TEB0 T) and TEB0 C and an edited Number ResultBinksion Number) (TEB0 T) and TEB0 C and Test Number (Lincolated Number) ResultBinksion Number) (TEB0 T) and TEB0 C and Test Number (Lincolated Number) ResultBinksion Number) (TEB0 T) and TEB0 C and Anneed). NWE Test 5 Cycle Category (Lincolated Number (Lincolated Number) TEB0 C T, (Test ResultBinksion Nume (TEB0 C T) Num test Number (Lincolated Number) TEB0 C T and Structure (Lincolated Number (Lincolated Number) TEB0 C T, (Test ResultBinksion Nume (TEB0 C T) Num test Number (Lincolated Number) TEB0 C T and Structure (Lincolated Number (Lincolated Number) TEB0 C T and Structure (Lincolated Number) (Lincolated Number) TEB0 C T and Structure (Lincolated Number) (Lincolated Number) Number (Lincolated Number) (Lincolated Number) (Lincolated Number) Number (Lincolated Numbe |
| GL-131 | Analytically-Derived PE / CPE | Is this test E analytically derived? | | | TRUE | 1 (1 for each Test within each Subconfiguration Configuration within each Base Level within each Mödel Type) | A(1) E | Enumer | | | | | b b b b b b b b b b b b b b b b b b b | H-No Yes | Light Duty | FE Label | The field eccountry values for this which that represents a sub- configuration were generated by an EPA-approved analytically dense EPA approved analytically dense CPR 400.006(c) and CD-64-00). Notes: 1. of A/DFT muscles no motion than 20% of the subconfiguration of the 20% of the subconfiguration of the Application of the above the page Guided Ta-50 million of above the page Guided Carline datas that del control y a whole million of above noncoti to a whole mpg. T1-12.6 | Verify | Back End | Pre- existing data | New LD-FE-GL 89133 | NEW: If the Total Road Load Horsepower (RL-122) is greater than the texted vehicles? (PL-Collicities) Total Road Load Horsepower (RL-13), or the Spubsite Tits Weight 130) is greater than the tested vehicles' auto ratio than Analytically Derived FE/ CREE Indicator (RL-131) and the quest to "we". |
| | Data Substitution Indicator | Enter the applicable Data Substitution Indicator for this test. | FuelEconomyLabelSubmissio n/FuelEconomyLabelDetailsAM dedTypeDetails/RaseLevelDe talis/ConfigurationDetails/TestVehi configurationDetails/TestVehi cleDetails | DataSubstitutionIndicator | TRUE | 1.n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type) | A(1) E | Enumer ation | | | | | И | I = No. = Yes | Light Duty | | | Mir | Front End | | LD-TE-GL-88073 New LD-TE-GL-88134 New LD-TE-GL-88135 | NOTE the achieved province PEC (CREE) Indiation (co.11)) is equation 'bio' and Total Rand Land Keingsover (EA: 42:18) is the table |
| GL-133 | Averaging Method | Accessing Accessing Method bo hose used if this Test the Next of an assessing group (i.e. subconfigure aton equipped with a multi- mode transmissio n or Shift Indicator Lipph). W T(D)) W T(D)) H = Navessing S = Simple averaging S = Simple averaging S = Simple averaging (Sum(i-1 to n) (FET(0)) | FastEconomy, Jakob Sytemissio nifuseEconomy, Jakob Sytemissio odd Type Desisio Based, evelop JakiConfiguratore balls / Test Velv der Desist | Nerzginglætvodtiontifer | TRUE | 1n (1 for each Test within each Subconfiguration Configuration within each Base Livel within each Model Type) | A(1) E | Enumer | | | | | | I-No severaging - Simote averaging (Sum(-1 to n) (FET(i) * 1700) I - Jamonic averaging I/Sum(-1 to n) (FET(i) /VT(0)) | Light Duty | FE Label | | Mir | Front End | XM4. | しっ年GL-86079 しっ年GL-86089 しっ年GL-86089 しっ年GL-86089 New Lの存GL-87118 | If Model Year (GL-3) is greater than or equal to 2011, then 'S' (Simple averaging) is not plowed. |

EPA Data Element Number Fuel Econo

-135

-173

NEW GL-173.

-174

420d11003.xls FE Label+



| <u>.</u> | PA Data Bement | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Data Des | kata iype script Min ion Length | Max Length Path | <u>Total</u> | Fraction | Min Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Collecti C | Collecti | Applicable Business Rules | English validation rules |
|----------|-------------------|---------------------------|--|---------------|---------|----------|-----------------------|------------|--|--------------------|--------------|----------|-----------|-----------|---|------------|----------|---|--------------|-------------|----------|----------------------------|--------------------------|
| | | y Label Information | Description | Farence Name | AME Tay | Reguired | monopicity | TANK | tengan | Lengen. Face | | a cogica | min value | max value | Allowed values | mooscry | FIGCESS | Notestadestidits | Striginator. | on roine of | 2011302 | Applicable Busiliess Roles | English validation rules |
| PL I | el Econom | y Label Information | | | | | | _ | | | | _ | | | | | | | | | | | |
| | | | Verify table that stores the required offset constant for each model year that is entered by EPA to calculate the highway for derived 5-cycle fuel economy labels. Also used for the Litmus | | | | | | | | | | | | These are distalase only fields. This is the table used to perform IPA derived 5- cycle label calculations. Any Model Year that | | | These fields are entered by EPA no more than once par model year (they are not expected to change every year); | | | | | |
| | NEW | Derived 5C Highway Offset | Threshold | | | | 1 for each Model Yea | r i | | | | | | | does not have an entry in this table will use the | | | Table should be initialized with | | Back | | | |
| | GL-183 | Constant | calculation. | | | TRUE | entry in Verify Table | N(7.6) Der | cimal | | 7 | 6 | 0.000000 | 9.999999 | last prior Model Year's coefficients. | Light Duty | FE Label | 2008 Model Year value = 0.001376 | Verify | End | EPA | | |

| EPA Data Element Number | Long Name | Description. | Patentia Name. | XML Tag | Required | Ba Di Multiplicity Ty | <u>sic Typ</u> ata Desc pe tion | a. e <u>Min</u> Length Li | Max ength Patt | tern Digit | al Fractio nal ts Digits | <u>Min</u> <u>Max</u> Value Value | Allowed Values. | Industry | Process. | Notes/Questions | Qriginator n.Point | Collection Type | Applicable Business Rules_ | Validation Rules. |
|----------------------------------|---|--|--|--|----------|-----------------------------|---------------------------------------|---------------------------------|---|---|--------------------------------|--------------------------------------|--|----------------|---------------|--|----------------------------|--------------------|--|--|
| CR-0.5 | Process Code | Select the desired process code for the current submission. | CertificateRequestSubmissionInformationCertificateRequestInformationDet all | RequestProcessCode | TRUE | AI | Enurr (1) ation | ier 1 | 1 | | | | N – New dataset C – Correction of existing – Verify dataset U – Unlock Request L – Lock Request I – Introduction Into Commerce Date Update | Light- Duty | Certification | | Manufactu Front rer End | XML | LD-CERT-CR-BR001 LD-CERT-CR-BR002 LD-CERT-CR-BR016 LD-CERT-CR-BR017 LD-CERT-CR-BR019 | Illocate Commerce Introduction Date), then a Test Group record must be the spates for the same Test Group (CR-4) and E-xpoorsive/Reflueing Family Name (CR-8) and Model Year (CR-5), is equal to T (Update Commerce Introduction Date), then a Test Group record must exist in the system for the same Test Group (CR-4) and Model Year (CR-3), it? Process Code – R* or "Dor "C", a necord must exist if Process Code – R* or "Dor "C", a necord must exist of Verify of the primary key of this modele. |
| CR-1 | Manufacturer Code | The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX user account. | CertificateRequestSubmissionInformationCertificateRequestInformationDet als/MenufacturerSpecificDetails | EPAManufacturerCode | TRUE | AI | (3) Strin | ig 3 | [A.] 3 9] | ZO- [3] | | | | Light Duty | Certification | | Front Verify End | XML | LD-CERT-CR-BR019 LD-CERT-CR-BR020a LD-CERT-CR-BR020b LD-CERT-CR-BR020c | CR-BR019: When requesting a Certificate Request report (CR-0.5; Phocess Code) equals TR (Report), a Certificate Request record must axis with the same Test Group (CR-2), Evaporative / Returing Family (CR- 8), Model Y ard (CR-3), and Manufacture Code (CR- CR-BR2). Manufacture Code of the Submission Author Dealis must match the Manufacture Code (CR- 1) of the submitted dataset. |
| CR-3 | Model Year | Enter the applicable model year for this test group. | CertificateRequestSubmissionInformationCertificateRequestInformationDet alb/ManufactureSpecificDetails | ModelYear | TRUE | N | Numi (4) r | 5e 4 | 4 | | | 1957 2100 | | Light Duty | Certification | | Manufactu Front rer End | XML | LD-CERT-CR-BR001 LD-CERT-CR-BR002 LD-CERT-CR-BR016 LD-CERT-CR-BR019 | Liveski Ti Process Lobe (LVK-3) is not equil to 1 (Lydate Commerce introduction Dala), then a Test Group record must exist in the system for the same Test Group (CR-4) and Expostmet/exitualing Family Name (CR-3) and Model Yare (CR-3). CR-BR2: IP rocess Code (CR-4), then a Test Group record must exist in the system for the same Test Group (CR-4) and Model Yare (CR-3). |
| CR-4 | Test Group | Enter the applicable test group name for the Centificate Request. | Certificate Request Submission/Information/Certificate Request Information/Det altiManufacturer Report/LiPatais | TestGroupName | TRUE | A | 12) Strir | ig 12 | [A-1 NPF 9)(1 2) 9)(4 ([0,] 2) 2) 9)(1 12 | 1-)[A- D- ,11} [[A- D- | | | | Light Duty | Certification | | Manufactu Front rer End | XML | LD-CERT-CR-BR001 LD-CERT-CR-BR002 LD-CERT-CR-BR019 LD-CERT-CR-BR021 D-CERT-CR-BR021 | Lipitatic commerce introduction Due), then a Test Goody neurod must exist in the system for the same Test Group (CR-4) and GiveportheRelating Family Name (CR-6) and Model Yame (CR-6). Characteristic commerce interaction of the same Test Group (CR-4) and Model Yame (CR-6). Characteristic in the system for the same Test Group (CR-4) and Model Yame (CR-6). ChaRM011: When requesting a Certificate Request mport (CR-6) and Model Yame (CR-6). ChaRM01: Strengther Strengther Yame (CR-6). ChaRM01: When Strengther Yame (CR-6), ChaRM01: The Caracteristic Parameteristic Strengther mport (CR-6). Sprontex (CR-6) and Strengther Test Group (CR-2), Longoniter (Returbing Family (CR- 6), Model Yame (CR-3), and Manntactume Code (CR-1) and Exponentive Returbing Family (CR-6) combination. See 22: An Application for Certification Committee Test Test 22: An Application of Code (Transform Family New Stem submitted for this Engine Family. |
| CR-5 | Evaporative/Refueling Family Name | Enter the applicable evaporative/refueling family name for this Certificate Request. | CertificateRequestSubmissionNormation/CertificateRequestInformatonDet alloManufacturerSperdicDetata | EvaporativeRefuelingFamilyN ame | FALSE | A | 12) Strin | ıg 12 | (A-I NP TV- 9)(1 2) 9)(4 9)(4 2) 21 21 21 21 | PR- -Y1-)[A- 0- -)[0- -)[A- 0- | | | | Light Duty | Certification | | Manufactu Front rer End | XML | LD-CERT-CR-8R001 LD-CERT-CR-8R019 LD-CERT-CR-8R019 | CR-BR1: If Process Code (CR-0.5) is not equal to 'T (Update Commerce Introduction Date), then a Test Group record must call in the system for the same Test Conce (CR-0) and Environment Relativity Family CR-BR019: When requesting 3 confliction Request report (CR-0.5) Process Code) equals 'F (Report), a Centralea Request coord must easi with the same Test Conce (CR-0). Environment Relativity Family (CR- CR-BR019: When request the 3 confliction CR-BR019) conflictate Request coord must easi with the same Test Conce (CR-0). Environment (Relativity Family (CR- CR-BR019) in the same Concept the test act Concept (CR-0) and Environment Vertication (CR-0) combination with Same Test Concept the test act Concept (CR-0) and Environment Vertication (CR-0) combination throws failed tests. |
| C8-7 | Commerce Introduction | Enter the date this Test Group will be nettered into | ConficateRequestBubmistionHormationCentificateRequestInformationDet | CommercelatorduriceDate | FAI SE | | Dat (YYY MD | YM | [1 2](1 9](3 1](1 9](1 3](1 9] |){0-){0-){0- | | | | Light | Certification | Is this being moved to Testorum Info? | Manufactu Front | XM | LD-CERT-CR-BR011 | Links and basis used basis served to Tartingsong Mole, Barn- the regulated selements can do (CR-40), P. 11, S. C. CR-88111: B. Process Code (CR-40) is equal to T (Update Commerce Introduction Date) from Commerce Introduction Date (CR-7) is required. Ref 2: B. Process Code (CR-40) is equal to Y (New) or 'L' (CR-6) (Final Commerce Introduction Date (CR-7) and An equation State (CR-7) and CR-80 (CR-7) Statem An equation Statements Inductor (CR-10), GR-A1 Market An equation Statements Inductor (CR-10), GR-A1 System Approval Indicater (CR-11), CARB Execution Date Insular (Indicater (CR-11), CARB Execution CR-100, CR-100, CR |
| | Merr All Applicable | Do al fine tested vehicles ment al the applicable | Certificase Request Submission/Normatoury Certificase Request shormatour Det | MeetAllApplicableStandardain | | | Enur | 1/ | -71 | | | | Y - Yes | Light | | | Manufactu Front | | LD-CERT-CR-BR012 | Requirements in the second sec |
| CR-9 | Standards Indicator | etandardin? | aku/apolication@peolidDetals | dicator " | FALSE | | atio | n | | | | | N = No | Duty | Certification | | rer End | XML | LD-CERT-CR-8R018 | Required when process code (CR-0.9) = N or 1: C: CR-BH2: B Process Code (CR-0.9) is expand to N More AP Applicable Requirements for the CR-0.9 More AP Applicable Requirements Indicator (CR-10). More AP Applicable Requirements Indicator (CR-10). DDD System Approval Indicator (CR-11), CABB Executive Order Issued Indicator (CR-11), CR-0.9 (CR-0.9200) Conditional Central (CR-10), DR-0.9 Converter Indicator (CR-10), and Alternae Fuel Converter Indicator (CR-10), and Alternae Fuel Converter Indicator (CR-10), OBD System Approval Standards Indicator (CR-10), OBD System Approval Requirements Indicator (CR-10), OBD System Approval |
| CR-10 | Meet All Applicable Requirements Indicator | group/evaporative family comply with all the applicable requirements of 40 CFR Parts 85 and 86? | CertificateRequestSubmissionInformation/CertificateRequestInformationDet alls/ApplicationSpecificDetails | MeetAllApplicableRequiremen tsIndicator | FALSE | | Enum | ier n | | | | | Y = Yes N = No | Light Duty | Certification | | Manufactu Front rer End | XML | LD-CERT-CR-BR012 LD-CERT-CR-BR018 | Indicator (CR-11), ORVR System Approval Indicator (CR-14), Compliance Fee Paid Indicator (CR-15), or No Defeat Device Indicator (CR-16) is equal to 'N' (No). |

| EPA Data Element | Long Name | Description. | Parent's Name | XML Tag | Required. | Multiplicity | Basic Data Type | Data Type Descrip | <u>Min Max</u> ngth Lengt | t. h. Pattern | Total Digits | Tractio nal Min Digits Value | <u>Max</u> Value | Allowed Values | Industry | Process. | Notes/Questions | Originator | Collectio n Point | Collection Type | Applicable Business Rules | Validation Roles. |
|------------------------|--|---|---|---------------------------------|-----------|--------------|-----------------------|-------------------------|------------------------------|------------------|-----------------|------------------------------------|---------------------|--|---------------|---------------|---|------------------|----------------------|--------------------|--------------------------------------|---|
| CR-11 | OBD System Approval Indicator | Has the QBD system for this been approved by EPA or CABP? | CertificateRequesSubmissionHomationCertificateRequestInformationDet | OBDSystemApprovalitedicator | FALSE | | e | Enumer | | | | | | Y - Yes N - No | Light Duty | Certification | | Manufactu rer | Front End | XML | LD-CERT-CR-BR012 LD-CERT-CR-BR012 | Required when process code (CR-0.5) = V or 1: C: CR-0R12: IP Process Code (CR-0.5) = equal to V (CR-7). Net Al Applicable Standards Indicate (CR-0) (CR-7). Net Al Applicable Standards Indicate (CR-7). Net Al Applicable Standards Indicate (CR-7). Net Al Applicable Standards Indicate Constraint Indicate (CR-10). And Amana Fuel Constraint Indicate (CR-10). And Amana Fuel Constraint Indicate (CR-10). Applicable Standards Indicate (CR-10). Applicable Standards Indicate (CR-10). CR-100. Indicate Indicater (CR-11). CR48 Standard Applicable Indicater (CR-11). CR48 Standard Applicable Indicater (CR-11). CR48 Standards Out Indicater Indicater (CR-11). CR48 Standards Out Indicater Indicater (CR-10). CR48 Standards Out Indicater Outpies Indicater (CR-10). Standards Indicater Indicater (CR-10). CR49. Standard Applicable Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-10). CR49. Standard Applicable Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR49. Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR49. Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-11). CR49. Standards Outpies Indicater Indicater (CR-11). CR48 Standards Outpies Indicater Indicater (CR-1 |
| CR-12 | GARE Executive Order | If this a California only Test Group have you received the scatter of a CARE security | Conficuti Repart Duminiscin Internation Centificate Reparatinformation Dat all/ApplicationSpecific Data | CARBE secosite/Order/sauedin | FALSE | | E | Enumer | | | | | | V - Yes N - No N - Not Appicable | Light | Certification | If "NA" is solected. Verify should then it as a "Yes" are certificate in the being issued. | Manufactu rer | Front | XML | LD-CERT-CR-89012 LD-CERT-CR-89012 | Required when process code (CR-0.5) = Y or 1' C'. CR-R812: IP Process Code (CR-0.5) a equal to Y Meyor or 1', Code Mine Common Individual Charles (Meyor or 1', Code Mine Common Individual Charles (Meyor or 1', Code Mine Common Individual Charles) Meyor Al Applicable Requirements Indicator (CR-10), DB System Approximational Indiator (CR-11), CAR8 Executive Order Issued Indiator (CR-11), CAR8 Executive Order (CR-11), and Alternate Fuel Common Indiator (CR-11), and Alternate Fuel Common Indiator (CR-11), and Alternate Fuel Indiator (CR-11), CR48 Esencitive Order Issued Indiator (CR-11), CR48 Spann Approximal Indiator (CR-14), Compliance Fach Indiator (CR-13), or 1V (India |
| CR-13 | CARB Executive Order | If yes, what is the executive | CertificateRequestSubmissionInformation/CertificateRequestInformationDet als/ApplicationSpecificDetails | CARBExecutiveOrderNumber | FALSE | | | | | | | | | | Light Duty | | | Manufactu rer | Front End | XML | LD-CERT-CR-BR015 | Required if the answer to Question 4 (CR-12) is yes. CR-BR15: If CARB Executive Order Issued Indicator (CR-12) is equal to '' (Yes) then CARB Executive Order Number (CR-13) is required. |
| CR-14 | ORVR System Approval | Inder number? | CertificateRequesSubmissionInformationCertificateRequestInformationDet abl/depicationQeertificAteRequestInformationDet | ORVRSystemApprovalIndicato | FALSE | | E | Enumer | | | | | | Y - Yes N - No | Light Duty | Certification | | Manufactu | Front End | XML | LD-CERT-CR-BR012 LD-CERT-CR-BR012 | Taggenet when process code (CR-0.5) = V to 11 C- CR-081712: IP Decode Code (CR-0.5) e equal to 1V (Rev) or 11, Lock) here Commerce Introduction Date (CR-7), Meer Al Architection Standards Inducery (CR-8), ODD Ospatem Approval Indicator (CR-11), CAR8 Executive Order team Indicator (CR-14), CAR9 And Indicator (CR-16), Compliance Tee All Indicator (CR-16), And Allemant Fuel Constrained Indicator (CR-10), CAR9 And Indicator (CR-16), and Allemant Fuel Constrained Indicator (CR-10), And Allemant Fuel Candidator Indicator (CR-10), And Allemant Fuel Candidator Indicator (CR-10), And Black (CR-10), And Blacker Indicator (CR-10), And Black (CR-10), And Blacker Indicator (CR-10), And Blacker Indicator (CR-10), CR-100, Stater Approval Indicator (CR-10), CR-100, Stater Approval Indicator (CR-10), CR-100, Stater Approval Indicator (CR-10), CR-100, Stater (CR-10), CR-100, CR-100, CR-140, Compliance Fes Fairl Indicator (CR-110), CR-100, CR-100, CR-1 |
| CR-15 | Compliance Fee Paid | Has the full amount of the applicable certification fees been paid for this test group? | CertificateReguetSubmissionInformationCertificateReguestInformationDet abu/kgs/certorQeordinZeata | ComplianceFeePaidIndicator | FallSE | | 8 | Enumer | | | | | | Y - Yes N = No | Light Duty | Certification | | Manufactu | Front End | XML | LD-CERT-CR-8R012 LD-CERT-CR-8R018 | Register alson process code (CR 0.8) and y to the C- CRRRTE. Brocks Code (CR 0.0) as easily to W Revol or 'L' (Lock) frem Commons Introduction Date (CR 7), Meet Al Applicable Standards Introductor (CR 9), Meet Al Applicable Requirements Indicator (CR 7), Date Standards (CR 7), Date Standards (CR 7), All CR 2), Standard (CR 7), Date Standard System Approval Indicator (CR 1-10), CARB Bard Indicator (CR 1-10), Conglance Free Bard Indicator (CR 1-10), Conglance Free Bard Indicator (CR 1-10), Conglance Free Bard Indicator (CR 1-11), CR 10, Bard Indicator (CR 1- CR 8), CR 1-10, CR |
| CR-16 | No Defeat Device Indicate | Are the vehicles covered by this test group/exponative family free of defast devices and statelige? | CertificateRequestSubmissionInformationCertificateRequestInformationDet ablufuptionatorQeutInformation | NoDefeatDeviceIndicator | FALSE | | E | Enumer | | | | | | V - Yas N = № | Light Duty | Certification | | Manufactu | Front End | XML | LD-CERT-CR-8R012 LD-CERT-CR-8R018 | Request when process code (RR.0.9) – V et 1'-CC CRRRTE: Proceed Code (RR.0.9) – equal to 1' (Rev) or 1'. Local) ten Commerce Introduction Date (Rev) and 1'. Local) ten Commerce Introduction Date (Rev) And All Applicable Requirements Inductor (RR-0), Marc Al Applicable Requirements Inductor (RR-10), Marc Al Applicable Requirements Inductor (RR-10), Resolver Ded tendent Inductor (RR-10), Compliance Fee Band Inductor (RR-10), No Detest Douber Inductor (RR-10), Band Inductor (RR-10), No Detest Douber Inductor (RR-10), CAPODO Conditional Committee (RR-17), ICI Commerter Inductor (RR-19), and engined and Cambries Inductor (RR-10), CR-19), and engined and enginedin All-work (RR-11), RR-10, RR- |
| CR-22 | GHG Pre-Model Year Report Indicator | Has the green house gas pre model year report been submitted to EPA for this model yearand does it meet all requirements 40 CFR 600.514? | CertificateReguestSubmits ioninformation/CertificateRequestInformation DatabackgptcationSpecificDataba | PreModelYearReportIndicato r | FALSE | | 8 | Enumer ation | | | | | | Y = Yes N = No | Light Duty | Certification | | Manufact urer | Front End | XML | LD-CERT-CR-BR024 | CR-8R24: If Process Code (CR-0.5) is equal to 'N' (Nev) or 'L' (Lock) and Model Year (CR-0) is obtained of the CR-22) is required, otherwise not allowed Required when Model Year >= 2012 |

Data

420d11003.xls CR+

EPA.

| Eler Nun | 2A. ta_ tent bor Long Name tificate Request Information | Description. | Parent's Name. | XML Tag | Required. | Multiplicity | Basic T Data De Type 1 | <u>ion Let</u> | <u>Ain Max</u> ngth Length | h Pattern D | Total <u>Fra</u> Digits Di | actio Ial <u>Min</u> gits Valu | <u>Max</u> e <u>Value</u> | Allowed Values | Industry | Process. | Notes/Questio | <u>15.</u> Ωrigina | Collection | Collection Type | Applicable Business Rules | Validation Rules. |
|-------------|--|--|---|--|-----------|--------------|------------------------------|----------------|-------------------------------|-------------|-------------------------------|--------------------------------------|------------------------------|-------------------|------------------------|---------------|---------------|-----------------------|------------|--------------------|---------------------------|---|
| CR | CAP2000 Conditional 17 Certificate | Does this test group and evaporative family need a CAP 2000 conditional certificate because EPA confirmatory testing is pending (i.e., a test has been scheduled with EPA but has not occurred at the time a certificate is being requested? | CertificateRequestSubmissionHomation/CertificateRequestInformation/Der alti/ApplicationSpacificDeats | CAP2000ConditionalIndicator | FALSE | | | umer | | | | | | Y – Yes N – No | Light Duty | Certification | | Manuf | | XML | LD-CERT-CR-BR012 | Regarded when process code (CR-0.9) = Y or 1' C CR-0.81:12 = Phoness Code (CR-0.9) = equal to Y CR-0.81:12 = Phoness Code (CR-0.9) = equal to Y Meet Al Applicable Regardements Inclassor (CR-10). Meet Al Applicable Regardements Inclassor (CR-10). Meet Al Applicable Regardements Inclassor (CR-10). CR-0.90: Applicable Regardements Inclassor (CR-10). CR-0.90: Applicable Regardements Inclassor (CR-10). Baytern Approval Inclassor (CR-11). CR-10 Baytern Approval Inclassor (CR-10). CR-10 CR-100: CR-100: CR- |
| CR | Independent Commercial 18 Importer Certificate | Is this an Independent Commercial Importer (ICI) certificate? | CertificateRequesSubmissionHomationCertificateRequestInformationDet abli/ApplicationSpacificDetats | ICICertificateIndicator | FALSE | | | umer | | | | | | Y = Yes N = No | Light Duty | Certification | | Manuf. rer | | XML | LD-CERT-CR-BR012 | Regulard when process code (CR-0.8) = Y or 1' C CAR-Bit 12 Finances Code (CR-0.6) is equal to Y CR-0.7 Meet AI Applicable Standard Indexion (CR-0) Meet AI Applicable Requirements Indicator (CR-10). All CR-0.7 Meet AI Applicable Standard Indexion (CR-10). Set 20 System Approval Indicator (CR-11). CR-0.7 Meet AI Applicable Standard Indexion (CR-10). System Approval Indicator (CR-11). System Approval Indicator (CR-10). Set Indicator (CR-10). No Meeta Davies Indicator (CR- contract Indicator (CR-10). and Alummas Fuel Contract Indicator (CR-10). and Alummas Fuel Contract Indicator (CR-10). and Alummas Fuel |
| CR | Alternate Fuel Converter 19 Certificate Certificate Locking | Is this an alternative fuel converter certificate? | CertificateRepartSubmissionInternationCertificateRepartInformationDet alt/ApplicateRepartInformationCertificateRepartInformationDet alt/ApplicateRepartInformationCertificateRepartInformationDet | AlternateFuelConverterCertific ateIndicator | FALSE | | En | umer | | | | | | Y – Yes N – No | Light Duty Light | Certification | | Manuf rer Manuf | | XML | LD-CERT-CR-BR012 | Required when process code (CR-0.5) = N or 11 [•] C. CR-88112; II Process Code (CR-0.5) is equal to N (Rev) or U (Lock) the Commerce Introduction bate (CR-7), New IA Applicable Standards Indicator (CR-1), CR-7), New IA Applicable Standards Indicator (CR-10, CR-7), New IA Applicable Standards (CR-10, CR-10, Standards (CR-11), No Defatt October 10, CR-10, Standards (CR-11), No Defatt October 10, CR-10, CR-10, CR-2000 Control Certificate (CR-11), CR- Centribute Indicator (CR-11), CR-10, Normatin CR-10, CR-2000 Control Certificate (CR-11), CR- Centribute Indicator (CR-11), and Applicator Feed CR-10, Normatin CR-10, CR-10, Normatin CR-10, Norm |
| CR | 20 Comment | certificate locking request. | CertificateRequestSubmissionInformation/CertificateRequestInformationDet | LockCommentText | FALSE | | A(1000) SI | tring umer | 1 1000 | | | + | - | Y = Yes | | Certification | | Manuf | End | XML | LD-CERT-CR-BR013 | |
| CR | 21 Revised Certificate? | needed? | alls/ApplicationSpecificDetails | RevisedCertificateIndicator | FALSE | | | tion | | | | | | N = No | Duty | Certification | | rer | End | XML | LD-CERT-CR-BR017 | Required is Process Code = 'L' |

| | | - | - | | | 1 | | | | 1 | 1 | 1 | | | | | | | | | 1 | | I | |
|----------------------------------|---|---|--|--------------------------------------|----------|---|-----------------------|------------------------------|---------------|------|---|------------------------|----------|---------------------|---------------------|---|---------------|--------------|---------------------------|--------------------------|----------------------------------|----------------------------|---|--|
| Pink = TBD | Orange = Changes Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | | | | |
| EPA Data Element Number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplic ity | Basic Data Type | Data Type Descripti on | Min Length | Max_ | Pattern | <u>Total</u> Digits | Fraction | <u>Min</u> Value | <u>Max</u> Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Collecti | Collection | Applicable Business Rules | English validation rules |
| | New dataset for "Roadload Information". This will enter another 12 fields and Verify will calcu | | | | | | | • | | | | | | | | | | | | | | | | |
| | will enter another 12 fields and Verify will calcu | ılate 2 fields. | | 1 | | 1 | | | r | 1 | r | r | | | | | 1 | 1 | [| 1 | T | | [| If Process Code = "R" or |
| NEW RL-1 | Process Code | Select the desired process code for the current road load entry submission. | RoadLoadDataSubmiss on/RoadLoadDetails | i InformationProcessCo de | TRUE | 1 per Road Load | A(1) | Enumerat ion | : | | | | | | | N = New dataset C = Correction of existing Verify dataset | Light Duty | Road Load | | Manufacture | Front r End | XML | New LD-FE-RL-BR001 | "D" or "C", a record must exist in Verify for the primary key of this module. |
| NEW RL-1.5 | Road Load Index | The Verify-assigned unique index number for this road load submission. | RoadLoadDataSubmiss on/RoadLoadDetails | i RoadLoadIndexNumbe r | TRUE | 1 per Road Load | N(5) | Integer | | | | | | 1 | 99999 | | Light Duty | Road Load | | Verify | Front End | XML | | |
| PL-1.6 | Model Year | Enter the model year for this road load entry. | RoadLoadDataSubmiss on/RoadLoadDetails | i ModelYear | TRUE | 1 per Road Load | N(4) | Integer | | | | | | | | | Light | Road Load | | Manufacture | Front r End | XML | New LD-FE-RL-BR002 | |
| NEW | | Enter the Manufacturer- assigned index number for the model type for | RoadLoadDataSubmiss | i ModelTypeIndexNumb | | 1 per Road Load | | integer | | | | | | | | | Light | Road | | | Front | | | Model Type Index + Mfr Code + Model Year must not exist-for process code (GL 0.5) = 'N', otherwise, must exist for other. |
| RL-2 | FE Label Model Type Index | this road load entry. | on/RoadLoadDetails | er | TRUE | Load | N(3) | Integer | | | | | | 1 | 999 | | Duty | Load | | Manufacture | r End | XML | New LD-FE-RL-BR002 | process codes. |
| NEW RL-3 | FE Label Subconfiguration Index | For this set of road load horsepower data, enter the applicable FE label subconfiguration index subconfiguration was used in an FE label, otherwise leave this field blank (the subconfiguration will be used in a future GHG/CAFE dataset. | RoadLoadDataSubmiss on/RoadLoadDetails | l SubConfigurationInde xNumber | FALSE | 1 per Road Load | N(2) | Integer | | | | 2 | | 1 | 99 | | Light Duty | Road Load | | Manufacture | Front r End | XML | New LD-FE-RL-BR003 | FE Label Subconfiguration Index is only required if roadload information is being provided for an existing subconfiguration that was used in FE label. |
| | | | | | | | | | | | [1- 2]{1}[0- 9]{3}[0- 1]{1}[0- | | | | | | | | | | | | | |
| NEW RL-3.5 | Release Date | The date this model type information can be released to the public. | FuelEconomyLabelSub mission/FuelEconomyL abelDetails | ReleaseDate | TRUE | 1 per Road Load | | Date (YYYYMM DD) | I | | 9]{1}[0- 3]{1}[0- 9]/1] | | | | | | Light | Road Load | GL-176 | Verify | Back End | Pre- | | |
| NEW RL-4 | Test Group | Enter the applicable test group name for this road load entry. | RoadLoadDataSubmiss on/RoadLoadDetails | | TRUE | 1n per Road Load | A(12) | String | 12 | 12 | 51(1) | | | | | | Light | Road | GL-126 | Verify or Manufacture | Back End or Front r End | Pre- existing or XML | GL-BR34 | TestGroup must have- already been certified. |
| NEW RL-5 | Engine Code | Enter the applicable engine code assigned by the manufacturer for this road load entry. | RoadLoadDataSubmiss on/RoadLoadDetails | i EngineCodeText | TRUE | 1 per Road Load | A(14) | String | 1 | 14 | | | | | | | Light Duty | Road Load | GL-119 | Verify or Manufacture | Back End or Front r End | Pre- existing or XML | | |
| NEW RL-5.1 | Equivalent Engine Code(s) | Enter all applicable equivalent engine codes for the engine code for this road load entry. | RoadLoadDataSubmiss on/RoadLoadDetails | i EquivalentEngineCod | TRUE | 1n per Engine Code per Road Load | A(14) | String | 1 | 14 | | | | | | | Light Duty | Road Load | | Manufacture | Front r End | XML | | |
| NEW RL-6 | In-Use Engine Code Decoder | Enter a description of the engine code for this road load entry that distinguishes it from similar engine codes per 600.512-12(c)(11). | | i InUseEngineCodeDes | TRUE | 1 per Road Load | A(500) | String | 1 | 500 | | | | | | | Light Duty | Road Load | | Manufacture | Front r End | XML | | |
| NEW RL-7 | Displacement | Enter the applicable engine displacement in liters for this road load entry. In Liters. | RoadLoadDataSubmiss on/RoadLoadDetails | i EngineDisplacementV | TRUE | 1 per Road | N(5.3) | Decimal | | | | 5 | 3 | 0.001 | 99 999 | | Light Duty | Road Load | GL-26 (TG-38) | Verify or Manufacture | Back End or Front r End | Pre- existing or XML | | |
| NEW RL-8 | Carline Manufacturer Code | Enter the applicable manufacturer code for this road load entry. | TBD | EPAManufacturerCod | TRUE | 1 per Road Load | N(5,3) | String | 3 | 3 | [A-Z0- 9]{3} | , | 3 | 0.001 | 38.899 | | Light | Road | GL-26 (1G-38) GL-125.5 | Verify | Back End | Pre- existing | GL-BR59 (same as- GL-BR44 for new data element) | |
| NEW RL-9 | Carline Division Code | Enter the applicable manufacturer code for this road load entry. | твр | ManufacturerDivision Code | TRUE | 1 per Road Load | N(2) | Integer | 1 | 2 | -10) | | | 1 | 99 | | Light Duty | Road | GL-125.6 | Verify | Back End | Pre- existing | GL-BR60 (same as- GL-BR46 for new data element) | |
| | | | - | | - | | - | | - | | - | - | | - | | - | - | - | | - | - | | | |

| NEW RL-9.1 | | Enter the applicable manufacturer code for | | ManufacturerDivision | TRUE | 1 per Road | | | | | | | | | | Light Duty | Road Load | Pulled in from Division table using Division Code | | Back End | Pre- | GL-BR60 (same as- GL-BR46 for new data element) | |
|---------------|--|---|--|---|------|-------------------------------|--------|-----------------|---|----|---|---|------|-------|---|---------------|----------------------|---|---------------------------|------------------------|----------------------------|---|------------------------------------|
| NEW RL-10 | | this road load entry. Enter the applicable manufacturer code for this road load entry. | TBD | Code CarlineCode | TRUE | Load 1 per Road Load | N(2) | Integer | 1 | 2 | | | 1 | 99 | | Light Duty | Load Road Load | table using Division Code GL-125.7 | Verify Verify | End Back End | Pre- existing | GL-BR61 (same as- GL-BR47) | |
| NEW | Carline Code | Enter the applicable manufacturer code for this road entry. | TBD | CarlineCode | TRUE | 1 per Road Load | N(3) | Integer | - | 3 | | | 1 | 999 | | Light Duty | Road | GL-125.7 CL-6 | Verify | Back | Pre- existing | GL-BR61 (same as- GL-BR67) | |
| NEW | | Enter the applicable drive system for this | | | | 1 per Road | | Enumerat | | | | | | | 4 = 4-wheel Drive F = 2-wheel Drive, front R = 2-wheel drive, rear P= Part-time 4-wheel drive | Light | Road | | | Back | Pre- | | |
| RL-11 | Drive system | road load entry. | TBD | TestDriveCode | TRUE | Load | A(1) | ion | | | | | | | A = All wheel drive | Duty | Load | GL-72 | Verify | End | existing | | |
| | | | | | | | | | | | | | | | A = Automated Manual AM = Automated Manual SA = Semi-Automatic CVT= Continuously Variable SCV=Selectable | | | | | | | | |
| NEW RL-12 | Transmission Type | Enter the transmission type for this road load entry. | TBD | LightDutyTransmissio nTypeldentifier | TRUE | 1 per Road Load | A(3) | Enumerat ion | | | | | | | Continuously Variable (e.g. CVT with paddles) OT = Other | Light Duty | Road Load | GL-67 | Verify | Back End | Pre- existing | VI-BR23 | |
| | | The number of transmission gears on this road load entry. If this vehicle is equipped with a "transmission type" of "CVT", enter | | | | 1 per | | | | | | | | | | i | | | | | | | |
| NEW RL-13 | Number of Transmission Gears | "1" for the number of gears. | TBD | TransmissionGearCou nt | TRUE | Road | N(2) | Integer | | | | | 1 | 99 | | Light Duty | Road Load | GL-71 | Verify | Back End | Pre- existing | VI-BR24 | If VI-36 - CVT, then VI-40 - 4. |
| NEW RL-14 | Transmission as listed in the FE Guide | Verify-determined Transmission Class for this read load entry based on the values for Transmission Type and Number of Transmission Gears. | TBD | TBD | TRUE | 1 per Road Load | A(12) | Enumerat | | | | | | | Determined by Verify from GL-67 (framsmission Type) and GL-71 (rotal number of Transmission Gears) as follows: If GL-67 is: Aa = "Auto(AAX)" AM = "Auto(AAX)" AM = "Auto(AAX)" GA = "Auto(AAX)" GA = "Auto(AX)" GA = "Auto(AX | Light Duty | Road Load | | Verify | Back End Back | Pre- existing | | |
| NEW RL-15 | Axle Ratio | Enter the axle ratio for this test vehicle road load entry. | RoadLoadDataSubmissi on/RoadLoadDetails | AxleRatioValue | TRUE | 1 per Road Load | N(3,2) | Decimal | | | 3 | 2 | 0.00 | 9.99 | | Light Duty | Road Load | GL-120 | Verify or Manufacturer | End or Front End | Pre- existing or XML | | |
| NEW RL-16 | Rim and tire size | Enter the standard tire/rim size description as imprinted on the side wall of the tire for this road load entry | RoadLoadDataSubmissi on/RoadLoadDetails | RimAndTireSizeDescr iptionText | TRUE | 1 per Road Load | A(20) | String | 1 | 20 | | | | | | Light Duty | Road Load | | Manufacturer | Front End | XML | | |
| NEW RL-17 | Tire Type | Select the applicable tire type for this road load entry. | RoadLoadDataSubmissi on/RoadLoadDetails | TireTypeldentifier | TRUE | 1 per Road Load | A(3) | Enumerat ion | | | | | | | -ALS = All Season -AT = All Terrain -HPR = High Performance -LRR = Low Rolling Resistance -RF = Run Flat | Light Duty | Road Load | | Manufacturer | Front End | XML | | |
| NEW RL-18 | | Enter the tire manufacturer for this road load entry. | RoadLoadDataSubmissi on/RoadLoadDetails | TireManufacturerNam | TRUE | 1 per Road Load | A(25) | String | 1 | 25 | | | | | | Light Duty | Road | | Manufacturer | Front | XML | | |
| NEW RL-19 | | Enter the applicable N/V ratio for this road load entry. | RoadLoadDataSubmissi on/RoadLoadDetails | | TRUE | 1 per Road Load | N(4,1) | Decimal | | | | | 0.0 | 000.0 | | Light Duty | Road Load | | Manufacturer | Front End | XMI | | |

| | | Enter the curb weight in pounds for this road load entry. Curb weight is defined as the actual or mfr's estimated weight of the vehicle in operational status with all standard equipment and weight of fuel at nominal tank capacity and the weight of | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|--|-------------------------------|------|-----------------------|--------|------------------------------|--|---|---|-------|---------|--|----------------|--------------|--------------------------------------|---------------------------|--------------------------------|----------------------------|--------------------|---|
| NEW RL-20 | Curb Weight | optional equipment computed in accordance with CFR86.082-24. | RoadLoadDataSubmissi on/RoadLoadDetails | CurbWeightValue | TRUE | 1 per Road Load | N(5) | Integer | | | | 0 | 14000 | | Light- Duty | Road Load | | Manufacturer | Front end | XML | | |
| NEW RL-21 | | Select the ETW, equivalent test weight, in pounds for this road load entry. | RoadLoadDataSubmissi on/RoadLoadDetails | EquivalentTestWeight Value | TRUE | 1 per Road Load | N(5) | Integer / Enumerat ion | | | | 0 | 14000 | 1500, 1625, 1750, 1875, 2000, 2125, 2250, 2375, 2500, 2625, 2750, 2875, 3000, 3125, 3250, 3375, 3500, 3625, 3750, 3875, 4000, 4250, 4500, 4750, | Light Duty | Road Load | GL-123 | Verify or Manufacturer | Back End or Front End | Pre- existing or XML | VI-BR19 | ¥430 > ¥429 |
| NEW RL-22 | Manufacturer-Calculated Total Road Load Horsepower | Enter the total road load horsepower at 50 mph (TRLHP50) for this subconfiguration. | RoadLoadDataSubmissi on/RoadLoadDetails | | TRUE | 1 per Road Load | N(3,1) | Decimal | | 3 | 1 | 0 | 99.9 | | Light Duty | Road | GL-122 | Verify or Manufacturer | Back End or Front End | Pre- existing or XML | New LD-FE-RL-BR004 | |
| NEW RL-23 | Verify-Calculated Total Road Load Horsepower | The total road load horsepower at 50 mph (TRLHP50) as calculated by Verify for this road load entry. | RoadLoadDataSubmissi on/RoadLoadDetails/EP AGeneratedDataDetails | TotalRoadLoadHorsep | TRUE | 1 per Road Load | N(3,1) | Decimal | | 3 | 1 | 0 | 99.9 | | Light Duty | Road Load | Calculation = (a+50°b+2500°c)/7.5 | Verify | Back End | Assigned | New LD-FE-RL-BR004 | Manufacturer-calculated TRLHP must equal the EPA-calculated TRLHP after both have been rounded to 0.1 |
| NEW RL-24 | Target Coefficient A (F0) (lbf) | Enter the target A-term coefficient from test track force vs. velocity equation for this road load entry. (lbf) | RoadLoadDataSubmissi on/RoadLoadDetails | | TRUE | 1 per Road Load | N(6,3) | Decimal | | 6 | 3 | -1000 | 999.999 | | Light Duty | Road Load | | Manufacturer | Front End | XML | | |
| NEW RL-25 | Target Coefficient B (F1) (lbf/mph) | Enter the target B-term coefficient from test track force vs. velocity equation for this road load entry. (lbf/mph) | RoadLoadDataSubmissi on/RoadLoadDetails | TargetCoefficientBVal ue | TRUE | 1 per Road Load | N(6,5) | Decimal | | 6 | 5 | -10 | 9.99999 | | Light Duty | Road Load | | Manufacturer | Front End | XML | | |
| NEW RL-26 | Target Coefficient C (F2) (lbf/mph**2) | Enter the target C-term coefficient from test track force vs. velocity equation for this road load entry. (lbf/mph*2) | RoadLoadDataSubmissi on/RoadLoadDetails | TargetCoefficientCVal ue | TRUE | 1 per Road Load | N(7,6) | Decimal | | 7 | 6 | -10 | 10 | | Light Duty | Road Load | | Manufacturer | Front End | XML | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| NEW RL-27 | Road Load Determination Method | Select the applicable road load determination method for this road load entry. | RoadLoadDataSubmissi on/RoadLoadDetails | | TRUE | 1 per Road Load | A(10) | Enumerat | | | | | | -Calculated (Vehicle not coasted down on track) -Measured (Actual vehicle coasted down on track) | Light Duty | Road Load | | Manufacturer | Front End | XML | | |

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality Date 2011-May-13

| Date | 2011-May-13 | | | 1 | | | | | ,, | | | | | | | | | 1 | | | | | | |
|-------------------|--|--|--|---|----------------|---|--------------|-----------------|----------------------|---------------|-----------------|-----------------|-----------------------|------------------|-----------|---|---------------|---------------|--|-----------------------------|---------------------------|----------------------|-------------------|--------------------------|
| Pink = TBD | Orange = Changes Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | | | | |
| EPA Data | | | | | | | Basic | Data Type | | | | | | | | | | | | | | | Applicable | |
| Element Number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplic ity | Data Type | Descript ion | <u>Min</u> Length | Max Length | Pattern | Total Digits | Fraction al Digits | <u>Min Value</u> | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originat or | | Collecti on Type | Business Rules | English validation rules |
| This new | tootprint dataset will be requir | ed for trucks beginning with mo | odel year 2010 and for cars | s beginning with mod | iei year 2011. | · · · · · | | | | | | | | | | | | - | | | | | | |
| NEW FT-0.5 | Process Code | Select the desired process code for the current footprint entry submission. | FootprintDataSubmission /FootprintDataDetails | InformationProces sCode | TRUE | 1 per footprint submiss ion | A(1) | Enumer ation | | | | | | | | N = New dataset C = Correction of existing Verify dataset | Light Duty | Footprin t | | Manufac turer | Front End | XML | TBD | |
| NEW FT-1 | Carline Manufacturer Code | Enter the 3-character alphanumeric code assigned by EPA to each manufacturer for the carline for which footprint information is being submitted. | FootprintDataSubmission /FootprintDataDetails | EPAManufacturer Code | TRUE | 1 per footprint submiss ion | A(3) | Fixed | 3 | 3 | [A-Z0- 9](3) | | | | | | Light | Footprin t | These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset) | Manufac turer | Front | XML | | |
| NEW FT-2 | Model Year | Enter the applicable model year for this carline for which footprint information is being submitted. | FootprintDataSubmission /FootprintDataDetails | ModelYear | TRUE | 1 per footprint submiss ion | N(4) | Integer | | | | | | 1957 | 2100 | | Light Duty | Footprin t | These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset) | Manufac turer | Front End | XML | | |
| NEW FT-3 | Division Code | Enter the applicable division for this carline for which footprint information is being submitted. | FootprintDataSubmission /FootprintDataDetails | ManufacturerDivis ionCode | TRUE | 1 per footprint submiss ion | N(2) | Integer | | | | | | 1 | 99 | | Light Duty | Footprin t | These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset) | Manufac turer | Front End | XML | | |
| NEW FT-4 | CarLine Code | Enter the applicable carline code (assigned by the manufacturer) for this carline for which footprint information is being submitted. | FootprintDataSubmission /FootprintDataDetails | CarlineCode | TRUE | 1 per footprint submiss ion | N(3) | Integer | | | | | | 1 | 999 | | Light Duty | Footprin t | These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset) | Manufac turer | Front End | XML | | |
| NEW FT-5 | Footprint Index | Verify-generated footprint index assigned to each footprint within a carline. | FootprintDataSubmission /FootprintDataDetails/Foo tprintIndexDetails | FootprintIndexNu mber | TRUE | 1n for each footprint submiss ion | N(2) | Integer | | | | 2 | 0 | 1 | 99 | | Light Duty | Footprin t | These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset) For web screens, Verify should automatically increment the index when mfr chooses to add another footprint. For batch, does the mfr need to enter? | | Front End | XML | | |
| NEW FT-6 | Footprint Description | Enter the manufacturer's model type and footprint description (e.g. "super cab, 4WD, long bed, Dooley"; "super cab, 2WD, short bed", etc.). Repeat for each footprint within this carline. | FootprintDataSubmission /FootprintDataDetails/Foo tprintIndexDetails | ModelTypeFootpri ntDescriptionText | TRUE | 1 per footprint index per footprint submiss ion | A(300) | String | 1 | 300 | | | | | | | Light Duty | Footprin t | These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset) | Manufac turer/Ve rify | Front End/Bac k End | | | |
| NEW FT-7 | Wheel base (inches) | Enter the wheel base of this footprint for this carline measured in inches and rounded to one tenth of an inch. | FootprintDataSubmission /FootprintDataDetails/Foo tprintIndexDetails | WheelBaseValue | TRUE | 1 per footprint index per footprint submiss ion | N(5,1) | Decimal | | | | 5 | 1 | 0.1 | 9999.9 | | Light Duty | Footprin t | These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset) | Manufac | Front End/Bac k End | XML/Pre- existing | | |
| NEW FT-8 | Front Track Width (inches) | Enter the front track width of this footprint for this carline measured in inches and rounded to one tenth of an inch. | FootprintDataSubmission /FootprintDataDetails/Foo tprintIndexDetails | FrontTrackWidthV alue | TRUE | 1 per footprint index per footprint submiss ion | N(4,1) | Decimal | | | | 4 | 1 | 0.1 | 999.9 | | Light Duty | | These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset) | Manufac turer/Ve | Front End/Bac k End | | | |
| NEW FT-9 | Rear Track Width (inches) | | FootprintDataSubmission /FootprintDataDetails/Foo tprintIndexDetails | RearTrackWidthVa lue | TRUE | 1 per footprint index per footprint submiss ion | N(4,1) | Decimal | | | | 4 | 1 | 0.1 | 999.9 | | Light Duty | Footprin t | These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset) | Manufac | Front End/Bac k End | | | |
| NEW FT-10 | Manufacturer-Calculated Footprint Rounded to One Decimal Place (square feet) | | FootprintDataSubmission /FootprintDataDetails/Foo tprintIndexDetails | FootprintAreaMea sure | TRUE | 1 per footprint index per footprint submiss ion | N(4,1) | Decimal | | | | 4 | 1 | 0.1 | 999.9 | | Light Duty | Footprin t | These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset) | Manufac | Front End/Bac k End | | | |

| | | | | | | | | | | | | | | | | | Verify should calculate the footprint and display it on the | | | | |
|-------------------------|--|---|--|--|-----------------------|-----------------------------|----------|---------------------|----------|--------------|----|---|------|--------------|---------------|---------------|--|--------|--------------|--------------|------|
| | | | | | | | | | | | | | | | | | front end using the following equation: | | | | |
| | | | | | | | | | | | | | | | | | Footprint = (((Front Track Width (GL-106.7) + Rear Track Width (GL- | | | | |
| | | | | | | | | | | | | | | | | | 106.8)) / 2) * Wheelbase (GL- 106.6)) / 144 rounded to one tenth | | | | |
| | | | | | | 1 per | | | | | | | | | | | of a square foot using ASTM rounding procedures. | | | | |
| | | The Verify-calculated area of | FootprintDataSubmission | | | footprint index | | | | | | | | | | | The result should then be stored on the back end. | | | | |
| | EPA-Calculated Footprint | this footprint for this carline according to the footprint | /FootprintDataDetails/EP AGeneratedDataDetails/E | For the late of the late | | per footprint | | | | | | | | | 1.1-1-1 | Frankrik | Any changes to GL-106.7, GL- 106.8, or GL-106.6 should trigger | | Death | | |
| NEW FT-11 | Rounded to One Decimal Place (square feet) | definition specified in 49 CFR 523.2. | PAGeneratedFootprintDet ails | 1DecimalValue | TRUE | ion | N(4,1) | Decimal | | | 4 | 1 | 0.1 | 999.9 | Light Duty | Footprin t | a recalculation of this value. | Verify | Back End | Assigne d | |
| | | | | | | 1 per footprint | | | | | | | | | | | | | | | |
| | | The Verify-calculated absolute value of the | FootprintDataSubmission /FootprintDataDetails/EP | | | index per | | | | | | | | | | | | | | | |
| NEW | Discrepancy of Manufacturer and EPA-Calculated Footprint | discrepancy of the manufacturer and EPA- calculated footprint. | AGeneratedDataDetails/E PAGeneratedFootprintDet | FootprintManufact urerDiscrepancyV | TRUE | footprint submiss ion | N(4.1) | Desimal | | | | | 0 | 999.9 | Light Duty | Footprin | | Verify | Back End | Assigne d | |
| F1-12 | | calculated tootprint. | dilb | alue | TRUE | 1 per | N(4,1) L | Jecimai | | | - | | 0 | 333.3 | Duty | | | Verity | Elia | u | |
| | | Enter the manufacturer- | | | | footprint index | | | | | | | | | | | | | | | |
| | Manufacturer Footprint Target FE Value Rounded to Two | calculated target fuel economy value (in miles per | FootprintDataSubmission | | | per footprint | | | | | | | | | | | | | | | |
| NEW FT-13 | Decimal Places (miles per gallon) | gallon) of this footprint for this model type. | /FootprintDataDetails/Foo tprintIndexDetails | IargetMilesPerGal IonValue | TRUE | ion | N(5,2) | Decimal | | | 5 | 2 | 0.01 | 999.99 | Light Duty | t | | Mfr | Front End | XML | |
| | | | | | | | | | | | | | | | | | See separate FE calculation tab for the equation as well as the table of required coefficients | | | | |
| | | | | | | 1 per footprint | | | | | | | | | | | (Section 533.3, Table V – Parameters for the Reformed | | | | |
| | | | FootprintDataSubmission /FootprintDataDetails/EP | For the destruction of For | | index per | | | | | | | | | | | CAFE FE Targets) by model year. This table should be modifiable by EPA. | | | | |
| NEW FT-14 | EPA Footprint Target FE Value Rounded to Two Decimal Places (miles per gallon) | fuel economy value (in miles per gallon) of this footprint. | PAGeneratedFootprintDet ails | FootprintTargetFu elEconomyRounde d2DecimalValue | TRUE | submiss | N(5,2) | Decimal | | | 5 | 2 | 0.01 | 999.99 | Light Duty | Footprin t | EFA. | Verify | Back End | Assigne d | |
| | | | | | | 1 per | | | | | | | | | | | | | | | |
| | | | FootprintDataSubmission | | | footprint index | | | | | | | | | | | | | | | |
| NEW | Footprint Target FE | The EPA-calculated absolute value of the discrepancy between the manufacturer | /FootprintDataDetails/EP AGeneratedDataDetails/E PAGeneratedFootprintDet | FootprintTargetFu | | per footprint submiss | | | | | | | | | Light | Footprin | This value is the difference between the EPA footprint target FE value (FT-14) and the mfr | | Back | Assigne | |
| FT-15 | Discrepancy Value | and EPA Target FE values. | ails | ancyValue | TRUE | ion | N(5,2) | Decimal | | | 5 | 2 | 0 | 999.99 | Duty | t | footprint target FE value (FT-13). | Verify | End | d | |
| | | | | | | 1 per footprint | | | | | | | | | | | | | | | |
| | Manufacturer Footprint Target GHG Value Rounded to Two | Enter the manufacturer- calculated target greenhouse gas value (in miles per | , | | | index per | | | | | | | | | | | | | | | |
| NEW FT-16 | Decimal Places (grams per mile) | gallon) of this footprint for this model type. | | | TRUE | submiss | N(4,1) | Decimal | | | 4 | 1 | 0.1 | 999.9 | Light Duty | Footprin t | | Mfr | Front End | XML | |
| | | | | | | 1 per | | | | | | | | | | | | | | | |
| | | | | | | footprint index | | | | | | | | | | | | | | | |
| NEW | EPA Footprint Target GHG Value Rounded to Two Decimal Places (grams per | The EPA-calculated target greenhouse gas value (in miles per gallon) of this | | | | per footprint submiss | | | | | | | | | Light | Footprin | | | Back | Assigne | |
| FT-17 | mile) | footprint. | | | TRUE | ion | N(4,1) [| Decimal | | | 4 | 1 | 0.1 | 999.9 | Duty | t | See separate GHG calculation tab. | Verify | End | Assigne d | |
| | | | | | | 1 per footprint | | | | | | | | | | | | | | | |
| | | The EPA-calculated absolute value of the discrepancy | | | | index per footprint | | | | | | | | | | | This value is the difference between the EPA footprint target GHG value (FT-17) and the mfr | | | | |
| NEW FT-18 | Footprint Target GHG Discrepancy Value | between the manufacturer and EPA Target GHG values. | | | TRUE | submiss ion | N(4,1) | Decimal | | | 4 | 1 | 0.1 | 999.9 | Light Duty | Footprin t | footprint target GHG value (FT- 16). | Verify | Back End | Assigne d | |
| This is New FT-19 | n EPA-Only database table that Footprint Coefficient Model | needs to be created. EPA will The applicable model year for each set of CAFE and GHG | need to enter these coeffied | cients into the databa | ase tables be TRUE | ofore the CA | N(4) | HG calculat Year | ions can | be completed | 4 | 0 | 2008 | 2100 | | | Will be entered manually once per model year with updated coefficients per regulation using back-end | ЕРА | Back End | Assigned | |
| | reaf | each set of CAFE and GHG coefficients. | | | | | | | | | | | | | | | per regulation using back-end database | | | | |
| New FT-20 | CAFE Footprint Target Minimum Domestic Passenger Vehicle Standard | EPA entered minimum allowed value for final Average Target FE calculation result. Applies to Domestically manufactured | | | TRUE | 1 per model year | N(5,1) | Decimal | | | 5 | 1 | 0 | 9999.9 | | | | EPA | Back End | Assigned | |
| | Childre Granudiu | Domestically manufactured Passenger Vehicles only. | | | | | | | | | | | | | | | | | | | |
| New FT-21 | CAFE Footprint Passenger Vehicle Coefficient A | EPA entered coefficients needed for CAFE calculations | | | TRUE | model | N(11,7) | Decimal | | | 11 | 7 | 0 | 9999.9999999 | | | | EPA | Back End | Assigned | |
| New FT-22 | | with different coefficients for cars and trucks. EPA entered coefficients needed for CAFE calculations | | | TRUE | year 1 per model | N(11,7) | Decimal | | | 11 | 7 | 0 | 9999.9999999 | | | | EPA | Back End | Assigned | |
| FT-22 | CAFE Footprint Passenger Vehicle Coefficient B | needed for CAFE calculations with different coefficients for cars and trucks. | | | | model year | | | | | | | | | | | | | | | |
| New FT-23 | CAFE Footprint Passenger Vehicle Coefficient C | EPA entered coefficients needed for CAFE calculations | | | TRUE | model | N(11,7) | Decimal | | | 11 | 7 | 0 | 9999.9999999 | | | | EPA | Back End | Assigned | |
| New FT-24 | CAFE Footprint Passenger Vehicle Coefficient D | with different coefficients for cars and trucks. EPA entered coefficients needed for CAFE calculations | | | TRUE | year 1 per model | N(11,7) | Decimal | | | 11 | 7 | 0 | 9999.9999999 | | | | EPA | Back End | Assigned | |
| FT-24 | Vehicle Coefficient D | needed for CAFE calculations with different coefficients for cars and trucks. | | | | model year | | | | | | | | | | | | | | | |
| | | | • | | | | | | | | | | | | | | | | | | |

| New | CAFE Footprint Light Truck | EPA entered coefficients | TRUE | 1 per | N(11.7) | Decimal | | 11 | 7 | 0 | 9999,9999999 | | | EPA | Back End | Assigned | |
|-------|----------------------------|---------------------------------|------|-------|---------|-----------|------|----|-----|---|---------------|---|--|-----|------------|------------|--|
| FT-25 | Coefficient A | needed for CAFE calculations | | model | | | | | | | | | | | | | |
| | Coefficient A | with different coefficients for | | vear | | | | | | | | | | | | | |
| | | | | year | | | | | | | | | | | | | |
| | | cars and trucks. | | | | | | | | | | | | | | | |
| New | CAFE Footprint Light Truck | EPA entered coefficients | TRUE | 1 per | N(11,7) | Decimal | | 11 | 7 | 0 | 9999.9999999 | | | EPA | Back End | d Assigned | |
| FT-26 | Coefficient B | needed for CAFE calculations | | model | | | | | | | | | | | | | |
| | | with different coefficients for | | vear | | | | | | | | | | | | | |
| | | cars and trucks. | | , | | | | | | | | | | | | | |
| New | CAFE Footprint Light Truck | EPA entered coefficients | TRUE | 1 per | N/11 7) | Decimal | | 11 | 7 | • | 9999,9999999 | | | EDA | Rock Eng | Assigned | |
| FT-27 | | needed for CAFE calculations | TROL | | ((1,7) | Decimal | | | - 1 | • | 3333.33333333 | | | LFA | Dack Life | Assigned | |
| F1-27 | Coefficient C | | | model | | | | | | | | | | | | | |
| | | with different coefficients for | | year | | | | | | | | | | | | | |
| | | cars and trucks. | | | | | | | | | | | | | | | |
| New | CAFE Footprint Light Truck | EPA entered coefficients | TRUE | 1 per | N(11.7) | Decimal | | 11 | 7 | 0 | 9999,9999999 | | | EPA | Back End | Assigned | |
| FT-28 | Coefficient D | needed for CAFE calculations | | model | | | | | | | | | | | | | |
| | Coefficient D | with different coefficients for | | year | | | | | | | | | | | | | |
| | | | | year | | | | | | | | | | | | | |
| | | cars and trucks. | | _ | | | | | | | | | | | | | |
| New | GHG Footprint Passenger | EPA entered coefficients | TRUE | 1 per | N(11,7) | Decimal | | 11 | 7 | 0 | 9999.9999999 | | | EPA | Back End | d Assigned | |
| FT-29 | Vehicle Coeffecient A | needed for CAFE calculations | | model | | | | | | | | | | | | | |
| | | with different coefficients for | | year | | | | | | | | | | | | | |
| | | cars and trucks. | | | | | | | | | | | | | | | |
| New | GHG Footprint Passenger | EPA entered coefficients | TRUE | 1 per | N/11 7) | Decimal | | 11 | 7 | 0 | 9999,9999999 | | | EDA | Rock Eng | Assigned | |
| FT-30 | | needed for CAFE calculations | | model | | Decimar | | | - 1 | | 0000.0000000 | | | | Duok Line | Abbighed | |
| F1-30 | Vehicle Coeffecient B | | | | | | | | | | | | | | | | |
| | | with different coefficients for | | year | | | | | | | | | | | | | |
| | | cars and trucks. | | | | | | | | | | | | | | | |
| New | GHG Footprint Passenger | EPA entered coefficients | TRUE | 1 per | N(11,7) | Decimal | | 11 | 7 | 0 | 9999.9999999 | | | EPA | Back End | d Assigned | |
| FT-31 | Vehicle Coeffecient C | needed for CAFE calculations | | model | | | | | | | | | | | | | |
| | | with different coefficients for | | vear | | | | | | | | | | | | | |
| | | cars and trucks. | | year | | | | | | | | | | | | | |
| New | GHG Footprint Passenger | EPA entered coefficients | TRUE | 4 | N/44 TO | Decimal | | 11 | - | 0 | 9999,9999999 | | | 504 | Deals Free | Assigned | |
| | | | IRUE | 1 per | N(11,7) | Decimal | | | 1 | U | 9999.9999999 | | | EPA | Dack End | Assigned | |
| FT-32 | Vehicle Coeffecient D | needed for CAFE calculations | | model | | | | | | | | | | | | | |
| | | with different coefficients for | | year | | | | | | | | | | | | | |
| | | cars and trucks. | | | | | | | | | | | | | | | |
| New | GHG Footprint Light Truck | EPA entered coefficients | TRUE | 1 per | N(11.7) | Decimal | | 11 | 7 | 0 | 9999,9999999 | 1 | | EPA | Back End | Assigned | |
| | Coeffecient A | needed for CAFE calculations | | model | | | | | | | | | | | | | |
| | Coeffectent A | with different coefficients for | | | | | | | | | | | | | | | |
| | | | | year | | | | | | | | | | | | | |
| | | cars and trucks. | | | | | | | | | | | | | | | |
| | GHG Footprint Light Truck | EPA entered coefficients | TRUE | | N(11,7) | Decimal | | 11 | 7 | 0 | 9999.9999999 | | | EPA | Back End | d Assigned | |
| FT-34 | Coeffecient B | needed for CAFE calculations | | model | | | | | | | | | | | | | |
| | | with different coefficients for | | vear | | | | | | | | | | | | | |
| | | cars and trucks. | | | | | | | | | | | | | | | |
| New | GHG Footprint Light Truck | EPA entered coefficients | TRUE | 1 ner | N(11.7) | Decimal | | 11 | 7 | 0 | 9999,9999999 | | | FPA | Back End | Assigned | |
| | | needed for CAFE calculations | ROL | | | Sectional | | | | | 5555.5888888 | | | | Duck Line | | |
| F1-35 | Coeffecient C | | | model | | | | | | | | | | | | | |
| | | with different coefficients for | | year | | | | | | | | | | | | | |
| | | cars and trucks. | | | | | | | | | | | | | | | |
| New | GHG Footprint Light Truck | EPA entered coefficients | TRUE | 1 per | N(11,7) | Decimal | | 11 | 7 | 0 | 9999.9999999 | | | EPA | Back End | d Assigned | |
| | Coeffecient D | needed for CAFE calculations | | model | | _ | | | | | | | | | | | |
| | | with different coefficients for | | vear | | | | | | | | | | | | | |
| | | | | year | | | | | | | | | | | | | |
| | | cars and trucks. | | | | | | | | | | | | | | | |

| United Sta Date | tes Environmental Protection Age 2011-May-13 | ancy, Office of Air and Radiation, Office of Transportation and | Air Quality | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|--------------|---------------------------------------|-------------------------|---------------|----------------|----------------|---------------|-----------|-----------|--|-----------------|--------------------|---------|---|-------------------|--------------------|-----------------|---|--|---|
| Pink = TBD | Orange = Changes Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | | | | |
| EPA Data | <u>1</u> | | | | | | | Data Type | Min Max | Tot | al Fraction | | | | | | | | | Collectio | E Collection | Ba Ero ok End d Vali Vali dati dati | | |
| CAFE Inf | Long Name ormation: Uniquely identifier Response Code | Description d by MirCode + ModelYear + CAFE Compliance Categ Enter the desired Process Code for the current submission | Parent's Name ory EvelEconomic AEES:htm | XML Tag | TRUE | Multiplicity 1 per CAFE/GHG | Basic Data Type A(1) | Description L | ength Length P | attern Digi | its al Digits | Min Value | Max Value | Allowed Values | Industry | Process FE CAFE | Example | IT Notes/Questions | Originator Mfr | n Point | Type XML | on on | Applicable Business Rules | English validation rules If process code=R, D or C a record must exist in Verify for the primary key of this module. |
| CA-0 | | | COntaile | AnformationPr ocessCode | t TRUE | | A(1) | n | | A-ZD- 9)(3) | | | | N = New dataset C = Correction of an existing Verify dataset | Light Duty | FE CAFE | | Derived from user login | MIT | Front End | XML | | | |
| CA-0 | Manufacturer Code | The three characteric code assigned by EPA to each manufacture. This will be derived from usery CDX account. | EDetails FuelEconomyCAFEStem Ission/FuelEconomyCAF EDetails | | t IRUE | 1 per CAFE/GHG | A(3) | String | 3 3 | | | | | | Light Duty | FE CAFE | | | veny | Front End | XML | | LD-FE-CA-BR001b LD-FE-CA-BR002 LD-FE-CA-BR008 LD-FE-CA-BR008 LD-FE-CA-BR016 LD-FE-CA-BR021a LD-FE-CA-BR021a LD-FE-CA-BR021a | CARE Complexes Catagory - MIT Code + Model Year man not east for process codes/N, otherwise, man sets for other process codes. |
| CA-1 | Model Year | Enter the applicable Model Year for this CAFE submission. | FuelEconomyCAFESubm Ission/FuelEconomyCAF EDetails | ModelYear | TRUE | 1 per CAFE/GHG | N(4) | Year | 4 4 | | | 1957 | 2100 | | Light Duty | FE CAFE | | Lock the MY CAFE data after the official MY CAFE letter is sent. Data can't be modified w/o unlocked by EPA staff. | Mfr | Front End | XML | | LD-FE-CA-BR001a | CAFE Compliance Category + Mfr Code + Model Year must not exist for process code=N, otherwise, must exist for other process codes. |
| CA-4 | CAFE Compliance- | Enter the applicable CAFE/GHG Compliance Category for this CAFE/GHG submission. | | | a TRUE | 1 per CAFE/GHG | A(3) | Enumeratio | | | | | | DP-Domotik Passonger | Light Duty | FE CAFE | | | Mfr | Front | XML | | LD-FE-CA-BR001a LD-FE-CA-BR001b LD-FE-CA-BR002 LD-FE-CA-BR008 LD-FE-CA-BR008 LD-FE-CA-BR008 LD-FE-CA-BR002 | |
| | CARE(GMG Compliance Category | | isator voieconomycky ED stale | r | <i>u</i> | | | n | | | | | | 999 – Honger Pessenger Vehicles 17 – Lipt Tracks PV – Passenger Vehicles | bity | | | Issues on the model type hall indicate that CA-26 to CA-27, very will be programmed to calculate the baselets and the CA-26 to CA-27, very will be CAET may values, the trait (-4 doction) place) CAET may value, and with the condex place of CAET model walls. The maximum CAET model walls is block of 1.2 may be the the condex place of 1.2 maximum CAET model walls. The CAET condex to be block on the the condex condex to block on the for the aboved maximum Cath Indu, shares funded values. CAET condex is, explicable model year. | | EIG | | | LD-FFE-CA-BR001b LD-FFE-CA-BR002 LD-FFE-CA-BR002 | |
| CA-127 (New) | GHG Exempt Indicator | For the CAFE/GHG submitter, is your company exempt under 40 CFR 86.1801-12(j) or are the production units between 0 and 4999 over a period of time defined in 40 CFR 86.1801-12(k)? | | | FALSE | 1 per CAFE/GHG | A(1) | Enumeratio | | | | | | N=No Y=Yes | Light Duty | FE CAFE | | | Mr | Front End | XML | | New LD-FE-CA-BR031 | Required if Model Year >=2012 |
| CA-128 | GHG Calculation Method | of time defined in 40 CFR 86.1801-12(k)? Enter GHG calculation method, i.e. carbon-related exhaust emissions (CREE) or optional carbon-relate exhaust emissions (OCREE). OCREE includes N2) | | | FALSE | 1 per CAFE/GHG | A(5) | Enumeratio | | | | | | CREE = CREE OCREE = OCREE | Light | FE CAFE | | | Mr | Front | XML | | New LD-FE-CA-BR032 | Required if Model Year >=2012 |
| (new) | | exhaust emissions (CREE) or optional carbon-relate exhaust emissions (OCREE). OCREE includes N2) and CH4 in the equation, ref 40 CFR 600.113-12(h) | d | | | | | n | | | | | | OCREE = OCREE | Duty | | | | | End | | | | |
| CA-129 (new) | For OCREE calculations, should N2O emissions always default to | Yes or no radio button. Business rule: Yes can only be used for 2012-2014 model years. | ' | | FALSE | 1 per CAFE/GHG | A(1) | Enumeratio | | | | | | N=No Y=Yes (2012 to 2014 only) | Light Duty | FE CAFE | | 'Yes' is only allowed for 2012 to 2014 model years | Mr | Front End | XML | | New LD-FE-CA-BR033 | Required if Model Year >=2012 and <=2014 |
| CA-4.5 | | is this CAFE/GHG submission complete and ready for | FuelEconomyCAFESubm Ission/FuelEconomyCAF | FinalStatusInd | 1 TRUE | 1 per CAFE/GHG | A(1) | Enumeratio | | | | | | N=No Y=Yes | Light Duty | FE CAFE | | | Mfr | Front | XML | | | |
| | | submissions unit this indicator is set to "Yes". If necessary, It will still be possible to submit a cornection to the CAFE/GHG submission after this indicator has been set to "Yes". | Ission/FuelEconomyCAF EDetails | cator | | - | | n | | | | | | Y=Yes | Duty | | | | | End | | | | |
| CA-130 (New) | EPA Calculated Official Model Year GHG | The Verify-calculated final model year GHG production units for this CAFE/GHG Compliance | | | FALSE | 1 per CAFE/GHG compliance category | N(7) | Integer | | 7 | 0 | 0 | 9999999 | | | | | New Verify calculation | Verify | Back End | Assigned | | New LD-FE-CA-BR034 | Required if Model Year >=2012 |
| CA-131 (New) | Production Units EPA Calculated Official Model Year GHG TLAAS | at CaRculated Stats Information The Verify-calculated final model year GHG production units for this CAFE/GHG Compliance Category (CA-4). The Verify-calculated final model year GHG TLAAS production units for this CAFE/GHG Compliance Category (CA-4). | | | FALSE | 1 per CAFE/GHG compliance category | N(7) | Integer | | 7 | 0 | 0 | 9999999 | | | | | New Verify calculation | Verify | Back End | Assigned | | New LD-FE-CA-BR035 | Required if Model Year >=2012 |
| CA-53 (Naw) | CD4 Colorised Official | Category (CA-4). The Verify-calculated final model year truck CAFE production units. Required for all truck | | | FALSE | 1 per CAFE/GHG | N(7) | Integer | | 7 | 0 | 0 | 9999999 | | | | | New Verify calculation | Verify | Back End | Assigned | | New LD-FE-CA-BR036 | Required if CAFE/GHG Compliance Category = Light Truck |
| (New) CA-54 | Model Year Truck CAFE Production Units EPA Calculated Official | production units. Required for all truck submissions. The Verily-calculated final model year domestic | | | FALSE | 1 per CAFE/GHG | N(7) | Integer | | 7 | 0 | 0 | 9999999 | | | | | New Verify calculation | Verify | End Back End | Assigned | | New LD-FE-CA-BR037 | Required If CAFE/GHG Compliance Category = Passenger Vehicle |
| (New) | Model Year Domestic Passenger Vehicle CAFE Production Units | The Verify-calculated final model year domestic passenger vehicle CAFE production units. Required for all passenger vehicle submissions. | 1 | | | compliance category | | | | | | | | | | | | | | End | | | | |
| CA-55 (New) | EPA Calculated Official Model Year Import Passenger Vehicle CAFE | The Verify-calculated final model year import passenger vehicle CAFE production units. Required for all passenger vehicle submissions. | 1 | | FALSE | 1 per CAFE/GHG compliance category | N(7) | Integer | | 7 | 0 | 0 | 9999999 | | | | | New Verify calculation | Verify | Back End | Assigned | | New LD-FE-CA-BR038 | Required if CAFE/GHG Compliance Category = Passenger Vehicle |
| CAFE & | | rer Official Calculated Sales Information | FuelEconomyCAFESub | FinalMedelYe | TRUE | 1 per CAFE | N(7) | Integer | | | | 4 | 0000000 | | Light- | SE-CASE | | | Mite | Front- | XML | | | Must not = 0 |
| CA-5 CA-132 | Production Units | CAFE compliance category. | mission/FuelEconomyC AFEDetails | arProduction Number | FALSE | 1 per CAFE/GHG | N(7) | Integer | | | 0 | 0 | 9999999 | | Duty | | | | Mr | End | XML | | Delete LD-FE-CA-BR015 New LD-FE-CA-BR039 | Required if Model Year >=2012 |
| (Naw) | Manufacturer Calculated Official Model Year GHG Production Units | Enter the manufacturer-calculated final model year GHG production units for this CAFE/GHG Compliance Category (CA-4). | | | | compliance category | | | | | | | | | | | | | | End | | | | |
| CA-133 (New) | Manufacturer Calculated Official Model Year GHG TLAAS Production Units | Enter the manufacturer-calculated final model year GHG TLAAS production units for this CAFE/GHG Compliance Category (CA-4). | | | FALSE | 1 per CAFE/GHG compliance category | N(7) | Integer | | 7 | 0 | 0 | 9999999 | | | | | | Mfr | Front End | XML | | Now LD-FE-CA-BR039 | Required if Model Year >=2012 |
| CA-50 (New) | Manufacturer Calculated Official Model Year Truck CAFE Production Units | Enter the manufacturer-calculated final model year truck CAFE production units. Required for all truck submissions. | FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture | OfficialProdu ctionCount | FALSE | 1 per CAFE/GHG compliance category | N(7) | Integer | | 7 | 0 | 0 | 9999999 | | | | | | Mr | Front End | XML | | New LD-FE-CA-BR040 | Required if CAFE/GHG Compliance Category = Light Truck |
| CA-51 (New) | Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production | Enter the manufacturer-calculated final model year domestic passenger vehicle CAFE production units. Required for all passenger vehicle submissions. | rTruckDetails FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture | OfficialProdu ctionCount | FALSE | 1 per CAFE/GHG compliance category | N(7) | Integer | | 7 | 0 | 0 | 9999999 | | | | | | Mir | Front End | XML | | New LD-FE-CA-BR041 | Required If CAFE/GHG Compliance Category = Passenger Vehicle |
| CA-52 | Venicle GALE Production Units Manufacturer Calculated Official Model Year Import | Enter the manufacturer-calculated final model year import passenger vehicle CAFE production units. | FuelEconomyCAFESub | OfficialProdu | FALSE | 1 per CAFE/GHG | N(7) | Integer | | 7 | 0 | 0 | 9999999 | | | | | | Mr | Front | XML | | New LD-FE-CA-BR042 | Required if CAFE/GHG Compliance Category = Passenger Vehicle |
| | Passenger Vehicle CAFE Production Units | Required for all passenger vehicle CVP2 productor drink. Required for all passenger vehicle submissions. | AFEDetails/Manufacture rimportedPassengerVeh icleDetails alternative fuel incentive of | rodie) M | or All Carro | of GHG calculations | ACTMENT | | | | | | | | | | | | | | | | | |
| Delete: CA-5.9 | EPA Baseline Average FE Unrounded Unadjusted 6- | The Verify calculated baseline average fuel economy miles per gallon value that has been truncated to 6- | , and many ender incentive of | Not | TRUE | nd GHG calculations use 1 per GAFE | N(0,6) | Becimal | | • | 6 | θ | 99.999999 | | Light- Duty- | FE GAFE | | | Verily | Back- End | Assigned | | | |
| | Docimal | decimal places. For this compliance category. The FE wate does not contain interactive costs also which costs production of dual fuel, statement fueld which is for the applicable model year, is unadjusted by the Test Perceders Alguement specification 40 CPR 400510- 00 (e) but truncated to 5 decimal places | - | | | | | | | | | | | | | | | | | | | | | |
| Delete: CA 6 | e A Massing Average FE Unrounded Unadjusted 4 Decimal | In the second | 5 12 12 12 | | - ALUE | 3per CAFE | *(5.4) | Uocins! | | • | | U | 2012033 | | ught. Buty | AL CAFE | | | verily | End | Accegnod | | | |

| Pink = TBD | Orange = Changes Due To New Technologies (Multi | | Red = Misc Text Edits | Blue = Misc Certification | | | | | | | | | | | | | | | | | |
|--|--|---|-----------------------|------------------------------|----------|---------------------------------------|-----------------------------|-------------|----------------------|-------------|------------------|-----------------|----------------|------------------|---------|--------------------|------------|---------------|---|------------------------------|--|
| TBD | FUELS, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Changes | | | | | | | | | | | | | | | | Ba | |
| EPA Data | | | | | | | | Data Type | Min Max | | | | | | | | | | Enc Rk End Vali Zolection dati Type on | ak Eo d | |
| clement number CAFE Info CA-134 | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Description | Length Length, Patte | m Digits al | Digits Min Value | Max Value | Allowed Values | Industry Process | Example | IT Notes/Questions | Originator | n Point | Type on | on Applicable Business Rules | English validation rules |
| CA-134 (New) | EPA Calculated Baseline Average GHG Uppounded | The Verify-calculated baseline average GHG gram | ry | | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 | 4 0 | 9999.9999 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR043 | Required if Model Year >=2012 |
| () | 4 Decimal | Description de M MitCode + Model/Year « CAFE Compliance Catego The Verfy-cateutated baseline average GHG gram per mile value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA- 4). The average GHG value does not contain incentive credit silowable for production of dual/tuel, aternato-fueled vehicles. | | | | | | | | | | | | | | | | Linu | | | |
| CA-135 (New) | EPA Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal | The Verify-calculated baseline average GHG TLAAS gram per mile value that has been rounded to 4 | | | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 | 4 0 | 9999.9999 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR044 | Required if Model Year >=2012 |
| | Unrounded 4 Decimal | The Verify-calculated baseline average GHG TLAAS gram per mile value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles. | | | | | | | | | | | | | | | | | | | |
| CA-59 (New) | EPA Calculated Baseline Truck CAFE Unrounded 4 Decimal | The Verify-calculated baseline truck CAFE miles per | | | FALSE | 1 per CAFE/GHG | N(8,4) | Decimal | | 8 | 4 0 | 9999.9999 | | | | | Verify | Back . | Assigned | New LD-FE-CA-BR045 | Required if CAFE/GHG Compliance Category = Light Truck |
| | Frack CAFE Unrounded 4 Decimal | The Verify-calculated baseline truck CAFE miles per gallion value that has been rounded to 4 decimal places. The CAFE value does not contain incentive credit allowable for production of dual-fuel, alternate- fueled vehicles. Required for all truck submissions. | | | | | | | | | | | | | | | | | | | |
| CA-60 (New) | EPA Calculated Baseline Domestic Passenger | The Verify-calculated baseline domestic passenger vehicle CAFE miles per gallon value that has been | | | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 | 4 0 | 9999.9999 | | | | | Verify | Back . End | Assigned | New LD-FE-CA-BR046 | Required if CAFE/GHG Compliance Category = Passenger Vehicle |
| | Proceeding and the second seco | The Verify-saturated baseline domestic passenger vehicle of FF miles per gallor dust ten has been on the Verifield of FF miles and the same ten has been and contain locative credit allow table by production of dual vehicles. The CAFE vehicles. The CAFE value is <u>NOT dualized</u> by the test by production adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions. | | | | | | | | | | | | | | | | | | | |
| CA-61 (New) | EPA Calculated Baseline Import Passenger Vehicle | The Verify-calculated baseline import passenger vehicle CAFE miles per gallon value that has been | | | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 | 4 0 | 9999.9999 | | | | | Verify | Back . End | Assigned | New LD-FE-CA-BR047 | Required If CAFE/GHG Compliance Category = Passenger Vehicle |
| | EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal | The Verify-calculated baseline import passenger while: CAFE mission programs varies that has been rounded to 4 decimal places. The CAFE value does not contain incess: The CAFE value for production of dual-haut, atemate-fuelde vehicles. The CAFE value is <u>NOT adjusted</u> by the test procedure adjustment specified in 40 CFR (00.510-00 (e). Required for all passenger vehicle submissions. | | | | | | | | | | | | | | | | | | | |
| Delete: CA-6.3 | EPA Baseline Average FE Rounded Unadjusted 1- | The Verify calculated baseline average fuel economy miles per callon value entered for Baseline Average | | | TRUE | 1 per GAFE | N(3,1) | Decimal | | э | + e | 99.9 | | Light- Duty | E | | Verily | Back- End | lasigned | | |
| | Roundou Undquiston 1. Docimal | FE Unrounded Unadjusted 4 Decimal (CA 6) and has- further-been rounded to 1 decimal place for this- compliance category. | | | | | | | | | | | | | | | | | | | |
| CA-136 (New) | EPA Calculated Baseline Average GHG Rounded Whole Number | The Verify-calculated baseline average GHG gram per mile value that has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, altermate-fueld vehicles. | | | FALSE | 1 per CAFE/GHG compliance category | N(4,0) | Integer | | 4 | 0 0 | 9999 | | Light Duty | | | Verify | Back . End | Assigned | New LD-FE-CA-BR048 | Required if Model Year >=2012 |
| CA-137 (New) | EPA Calculated Baseline | The Verily-calculated baseline average GHG TLAAS | | | FALSE | 1 per CAFE/GHG | N(4,0) | Integer | | 4 | 0 0 | 9999 | | Light Duty | | | Verify | Back | Assigned | New LD-FE-CA-BR049 | Required if Model Year >=2012 |
| (Naw) | EPA Calculated Baseline Average GHG TLAAS Rounded Whole Number | The Verify-calculated baseline average GHG TLAAS gram per mile value that has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles. | | | | compliance category | | | | | | | | Duty | | | | End | | | |
| CA-63 (New) | EPA Calculated Baseline Truck CAFE Rounded 1 | The Verify-calculated baseline truck CAFE miles per nation value that has been rounded to 1 decimal | | | FALSE | 1 per CAFE/GHG compliance category | N(4,1) N(5,1) | Decimal | | 5 | 1 0 | 9999.9 | | Light Duty | | | Verify | Back - | Assigned | New LD-FE-CA-BR050 | Required if CAFE/GHG Compliance Category = Light Truck |
| | Decimal | The Verify-calculated baseline truck CAFE miles per gallon value that has been rounded to 1 decimal place. The CAFE value does not contain incentive credit allowable for production of dual-fuel, alternate fueled vehicles. Required for all truck submissions. | | | | | | | | | | | | | | | | | | | |
| Delete: CA-7.8 | EPA Baseline Average Pascenger Vehicle FE- | The Verity calculated TPA adjusted average Fuel- Economy value that has been truncated to 6 decimal- | | | FALSE | 1per CAFE | N(2,6) | Decimal | | | • • | 00.000000 | | Light RE-CAR | | | Verily | Back- End | Lesignod | | Calculation required when CAFE Compliance category (CA. () = "DP" or "IP"; else, must not be present. |
| | Unicendes IIIX Adjusted 6 Decimal | pilotes for this passenger submouse companies category. The E value does not contain the codil for production of dual fuel, attemate fuel vahicles for the applicable model year, is <u>adjusted</u> by the Test. Procedure Adjustment specified in 40 GFR 606.510- 08 (o) but is truncated to E docimal places. | | | | | | | | | | | | | | | | | | | (Present only ECA-4 |
| Delete: CA-7.9 | EPA Baseline Average Passenger Vehicle FE- | The VerBy calculated TRA adjusted average Fuel. Economy value that has been truncated to 6 decimal. | | | FALSE | 1por CAFE | N(6,4) | Decimal | | • | 4 0 | 89.9999 | | Light FE-CAR | • | | Verilly | Back. End | bongiaal | | Calculation required when CAFE Compliance category (CA-() = "DP" or "IP"; else, must not be present. |
| | Unrounded TPA Adjusted 4 Docimal | please their number is a decimal please for this pacenages subsolits compliance stategory. The FL value does not contain the could for production of dual fuel, advanted within a could for production of the stategory of the stategory of the state of the Adjustment specified in 40 CFR 00051000 (4) but its unumated 16 of contain places than rounded to 4 decimal places- | | | | | | | | | | | | | | | | | | | (Present only I CA + or T) |
| CA-66 (New) | EPA Calculated Baseline Domestic Passenger | The Verify-calculated test procedure adjusted domestic passenger vehicle CAFE value that here | | | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 | 4 0 | 9999.9999 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR051 | Required if CAFE/GHG Compliance Category = Passenger Vehicle |
| (rew) | Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal | The Verfly-calculated test procedure adjusted domestic passenger vehicle CAFE value that has been rounded to 4 decimal places. The CAFE value does not contain the credit for production of dual- fue, alternate vehicles. The CAFE value is adjusted by the test procedure adjustment specified in 40 CFR 0005100 (e). Required for all passenger vehicle submissions. | | | | | | | | | | | | | | | | End | | | |
| CA-67 (New) | EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test | The Verify-calculated test procedure adjusted import passenger vehicle CAFE value that has been | | | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 | 4 0 | 9999.9999 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR052 | Required If CAFE/GHG Compliance Category = Passenger Vehicle |
| | CAFE Unrounded Test Procedure Adjusted 4 Decimal | The Verify-calculated test procedure adjusted import passenger vehicle CAFE value test has been rounded to 4 decimal places. The CAFE value does not contain the certafk for production of dual-luid, attenuat-fuel vehicles. The CAFE value is <u>adjusted</u> , by the test proceedure a djustment specified in 40 CFR 600.51068 (c). Required for all passenger vehicle submissions. | | | | 1 par GAFE | N(3,1) | | | | | 99.9 | | | | | | | | | |
| Delete: CA-8 | Passonger Vehicle FE- | The Verity calculated average Fuel Economy value for this passanger automobile compliance category. The FE value door not contain the credit for | | | HALSE | 1 per GAFE | N(3,1) | vecimal | | 1 | • | 99.9 | | Duty FE CAFI | | | verity | Back- End | asigned | | uncument required when UAIL compliance category (GA-4) = "DP" or "IP", else, must not be precent. |
| | Docimal | poplicable model year, is <u>plicable</u> by the Test- Procedure Adjustment specified in 40 CFR 600,510- 02 (o) but is truncated to 5 decimal places then rounded to 1 decimal places. | | | | | | | | | | | | | | | | | | | (Present only 2 CA-4 |
| CA-70 (New) | EPA Calculated Baseline Domestic Passenger | The Verify-calculated test procedure adjusted domestic passenger vehicle CAFE value that has | | | FALSE | 1 per CAFE/GHG compliance category | N(5,1) | Decimal | | 5 | 1 0 | 9999.9 | | | | | Verify | Back . End | Assigned | New LD-FE-CA-BR053 | Required If CAFE/GHG Compliance Category = Passenger Vehicle |
| | EPA calculated basene Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal | The Verty-calculated test procedure adjusted domestic passare vehicle CAP* value that has been rounded to 1 decimal pice. The CAPE value does not comits the credit for production of dual- fault admenta-fuel vehicles. The CAPE value is adjusted by the test procedure adjustment specified in 40 CPR 400.510-08 (s). Required for all passanger vehicle submissions. | | | | | | | | | | | | | | | | | | | |
| L | | 1 | | | | | | | | | | | | | | | | | | 1 | |

| Pink = TBD | Drange = Changes Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|--|--|---|----------|---------------------------------------|-----------------|--------------------------|---------------------|------------------------------|-------------|-----------|------------------|----------------|-----------------|-----------------|-----------|-----------|------------|------------------------|---|--|--|
| EPA Data element number | ong Name | Description By MrCode + ModelYear + CAFE Compliance Catego | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Description | Min. Max. Length | <u>Iotr</u> Pattern Digit | al Fraction | Min Value | <u>Max Value</u> | Allowed Values | Industry. | Process Example | (T Notes) | Questions | Originator | Collectio C n Point | Enc ni- Enc Val olection dat Type on | Ba Ec Ec Ec Ed Ed Ed Ed Ec Ec Ec Ec Ec Ec Ec Ec Ec Ec Ec Ec Ec | English validation nam |
| (Naw) 1 | PA Calculated Subsenior mport Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal | The very-calculate his proceeder adjusted import passenger vehicle CAFE value that has been rounded to 1 decimal place. The CAFE value does not contain the credit for production of dual-fuel, alternativel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFF 605.010.08 (e). Required for all passenger vehicle submissions. | | offic) No | | 1 per CAFE/GHG compliance category | | | | 5 | 1 | 0 | 9999.9 | | | | | | Verity | Back A End | | New LD-FE-CA-BR054 | Regulard If CAFE(BHS Compliance Catagory = Passanger Valida |
| Delete: CA-6-3 | Ar Bacolino, Averago FE Inrounded Unadjucted 4 Jacimal | The Christianics Results (Does NOT Include dustrial). Class dustrial and the second | FuelEconomyCAFESub mission/FuelEconomyC AFEDotalia | Manufacturer BassineAver ageUnrounde dUnadjusted Value | TRUE | L-perCAPE | N(6.4) | Decimal | | • | 4 | • | 22.000 | | Light F Duty | ECAFE | | | Mar- | End | XML | | |
| CA-138 (New) | Annufacturer Calculated Baseline Average GHG Jnrounded 4 Decimal | The manufacturer-calculated baseline average GHG gram per mile value that has been rounded to 4 decimal places for this CAPE/OHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles. | | | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | | Mfr | Front End | XML | New LD-FE-CA-BR055 | Required if Model Year >=2012 |
| CA-139 (New) | Aanufacturer Calculated Jaseline Average GHG (LAAS Unrounded 4 Decimal | The manufacturer-calculated baseline average GHG TLAAS gram per mile value that has been rounded to 4 decimal places for this CAFEOHG Compliance Catogory (CA-4). The average GHU value does not contain incentive credit allowable for production of dual-fuel, attemate-fueled vehicles. | • | | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | | Mfr | Front End | XML | New LD-FE-CA-BR056 | Required If Model Year >=3012 |
| CA-56 (New) | Asnufacturer Calculated Baseline Truck CAFE Jinrounded 4 Decimal | The manufacturer-calculated baseline truck CAFE miles per gallon value that has been rounded to 4 decimal places for this CAFE/GMC Compliance Category (CA-4). The CAFE value does not contain incentive credit allowable for production of dual-fuel alternate-fueled vehicles. Required for all truck submissions. | FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Mandracture (TruckDetails/BaselineT ruckDetails | Unrounded4V alue | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | | Mfr | Front End | XML | New LD-FE-CA-BR057 | Required If CAFE/GHG Compliance Category = Light Track |
| CA-57 (New) | | production of dual-fuel, alternate-fueled vehicles. The CAFE value is <u>NOT adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510- 08 (e). Required for all passenger vehicle submissions. | | UnroundedUn adjusted4Val ue | | 1 per CAFEJGHG compliance category | N(8.4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | | Mfr | Front End | XML | New LD-FE-CA-BR058 | Regime I CAFECHIS Compliance Catopry = Passinger Velicle |
| CA-58 (New) | Annafacturer Calculated Baseline Import Aassenger Vehicle CAFE Inrounded Unadjusted 4 Decimal | The manufactures calculate baseline import the base base rounded to 4 decimal places for this bas been rounded to 4 decimal places for this CAFEGNIG Companies Catagory (CA-1). The CAFE value does not contain incentive credit allowable for production of data value, alternate-baseled vehicles. The CAFE value is <u>NCT allowable</u> vehicles and the set of the set of the set procedure adjustment specified in a 6 (267 600.51%) submissions. | FuelEconomyCAFESub mission/FuelEconomyC AFEDetailSManufacture (mpontedPassengerVehi icleDetails/BaselineVehi cleDetails | UnroundedUn adjusted4Val ue | | 1 per CAFE/GHG compliance category | N(8.4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | | Mfr | Front End | XML | New LD-FE-CA-BR059 | Regime I CAFECHIS Compliance Category - Passinger Velicle |
| CA-140 (New) | Annufacturer Calculated Baseline Average GHG Rounded Whole Number | The manufacturer-calculated baseline average GHG gram per mile value that has been rounded to a whele number for this CAFE/GHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles. | | | | 1 per CAFE/GHG compliance category | N(4,0) | Integer | | 4 | 0 | 0 | 9999 | | | | | | Mir | Front End | XML | New LD-FE-CA-BR060 | Required if Model Year >=2912 |
| (New) | Annufacturer Calculated Jaseline Average GHG (LAAS Rounded Whole Number | The menufacturer-colocidated baseline average GHC TLAAS gram per mile value that has been rounded to a whole number for this CAFE/0HC Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, atternate-fueled vehicles. | • | | FALSE | 1 per CAFE/GHG compliance category | N(4,0) | Integer | | 4 | 0 | 0 | 9999 | | | | | | Mfr | Front End | XML | New LD-FE-CA-BR061 | Reguled I Model Year >>2012 |
| CA-62 (New) | Annufacturer Calculated Jaseline Truck CAFE Rounded 1 Decimal | The manufacture-calculated baseline truck CAFE miles per gallow value that has been rounded to 1 decimal place for this CAFE(AHG Compliance Category (CA-1). The CAFE value does not contain incentive credit allowable for production of dual-fuel, aternato-fueld vehicles. Required for all truck submissions. | FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture rTruckDetails/BaselineT ruckDetails | Rounded1Val ue | FALSE | 1 per CAFE/GHG compliance category | N(5,1) | Decimal | | 5 | 1 | 0 | 9999.9 | | | | | | | Front End | XML | New LD-FE-CA-BR062 | Required If CAFE/GHG Compliance Category = Light Truck Required If CAFE/GHG Compliance Category = Passenger Vehicle |
| (New) | Annufacturer Calculated Jaseline Domestic Passenger Vehicle CAFE Inrounded Test Procedure Adjusted 4 Jecimal | submissione. The manufacture-calculated baseline test procedur adjusted domestic passanger which CAFE value that has been rounded to 4 deciral places for this CAFE (MIC Compliance Category (CA-4), The CAFE calculated of the second second second second calculated by the test procedure adjustment specified passanger vahicle submissions. | mission/twellconomyCA mission/twellconomyC AFEDetails/Manufacture r/Domestic/Passenger/Ye hicle/Details/Baseline/Ye hicle/Details | justed4Value | | 1 per CAFE/GHG compliance category | | Decina | | • | | | | | | | | | | Front End | | | |
| CA-65 (New) | Annufacturer Calculated Jaseline Import Passenger Vehicle CAFE Jarounded Test Procedure Adjusted 4 Decimal | The manufacturer calculated baseline list procedum adjusted import passingle which, CAFE what has calculated import passingle which, CAFE what has CAFEWIG Companies Callargory (CAA). The CAFE value does not contain the credit for production of adjusted by the test procedure adjustment specifies adjusted by the test procedure adjustment specifies in a GCFR 603.01506 (e). Required for all passenger vehicle submissions. | FuelEconomyCAFESub mission/FuelEconomyC AFEDetalis/Manufacture importedPassengerVehi IcleDetalis/BaselineVehi cleDetalis | UnroundedAd justed4Value | FALSE | 1 per CAFE/GHG compliance category | N(8.4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | | Mfr | Front End | XML | New LD-FE-CA-BR064 | Required If CAFE(CHIS Compliance Category = Passinger Vehicle |
| Delete: CA-2.05 | Mr Baseline Average Jaccenger Vohicle FE- lounded TPA Adjusted 1- Jacimal | The manufacturer calculated average Fuel Economy value for this passenger automobile compliance. entegory: The Far Value does not contain the credit for production of dual fuel, attemate fuel values for the applicable model year, is adjusted by the Test Procedure Adjustment specified in 40 CER (200510- 00 (r) but its timuted to 67 determing passes them rounded to 1 decimal places. | - FuelEconomyCAFESub mission/FuelEconomyC AFEDetails | Manufacturor BasolineAvor ogeRounded AdjustodVabu o | FALSE | 1por CAFE | N(2.1) | Decimal | | • | 4 | 0 | 88.5 | | Light S Duby | E CAFE | | | hite. | Front- End | XML | | |
| CA-68 (New) | Asnufacturer Calculated Jaseline Domestic Passenger Vahicle CAFE Sounded Test Procedure kdjusted 1 Decimal | The manufacturer-calculated baseline test procedure adjusted domestic passinger vehicle CAFE value CAFE/ONIC Company of the CAFE value CAFE/ONIC Company of the CAFE value is value does not contain the credit for production of adjusted by the test procedure adjustment specifies adjusted by the test procedure adjustment specifies in a CAFE 602-500 cgl, Regulated to all passenger vehicle submissions. | e FuelEconomyCAFESub mission/FuelEconomyC AFEDetailsManufacture rDomesticPassengerVe hicleDetails/BaselineVe hicleDetails | Rounded1Val ue | FALSE | 1 per CAFE/GHG compliance category | N(5.1) | Decimal | | 5 | 1 | 0 | 9999.9 | | | | | | Mfr | Front End | XML | New LD-FE-CA-BR065 | Regulard & CAFE/OHS Completions Category = Passinger Velicia |

| Pink = TBD | Orange = Changes Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|--|---|---|--------------------|----------------------------------|-----------------|--------------------------|-------------------------------|----------------------------|-------------------------|-----------|-----------|----------------|-----------------------|---------|--------------------|------------|-----------------------------|---|---|---|
| EPA Data | Long Name | Description Definition | | XML Tag | Required | Multiplicity E | Basic Data Type | Data Type Description | Min. Max. ength Length Pat | <u>Total</u> tem Digits | Etaction al Digits M | fin Value | Max Value | Allowed Values | Industry Process | Example | IT Notes Questions | Originator | Colectio Cole n.Point Ty | Eno sk Eno sk End d Vali Va tion dati da e on or | Applicable Business Rules Applicable Business Rules New LD-FE-CA-IBR066 | Ergen validation rains |
| (New) | Wahunacturer Caculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal | The manufacture-calculate basene test procedure adjusted import passenger vehicle. CAFE value that has been rounded to 1 decimal place for this CAFE/GHC Compliance Category (C4-4). The CAFE value does not contain the credit for production of dual-fuel, atternative-tuk vehicles. The CAFE value dual-fuel, atternative-tuk vehicles. The CAFE value dual-fuel by the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions. | Fuel:conomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture rimportedPassengerVeh icleDetails/BaselineVehi cleDetails | Rounded1Val ue | FALSE 1 pc comp | er CAFE/GHG pliance category | N(5,1) | Decimal | | 5 | 1 | 0 | 9939.9 | | | | | Mr | Front XM End | | | Explored #CAFEXBHQ Compliance Category = Passenger Yelhols |
| CAFE & C Delete: CAES | (d Information: EPP Flam) EAA Average FE Unexanded Unadjusted 4- Decensal | Citization Results (Includes dual fact, alternative fue Tas 6 and yearbanding as easing table another yearband table and yearbanding as easing table another yearband and table another another another another another all another another another another another another table and table another another another another another another and table and table another another another another another and table and table another another another another another another and table and table another anothe | incentive credits) | Note: All CAFE | and CHG cakulatik | ions use ASTME29 r | <u>₩(8.6)</u> | Decimal | | • | 5 6 | • | 30.00000 | | Light FE-CAFE Duty | | | Verity | Back. End | | | |
| Delete: 6+67 | EFA Average SE Innovation Unadjusted 4- Queina | The Lerby exclusion of energies we exclusion while the product state the energies we exclusion while the state is an explosion of the target state. The states is an explosion of the target states is a state of the state state of the state states and states and states exclusions, the states states and states and states exclusions, states and states in production of the state states and states the states and states and states in production and states and states and states the states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and constrained and states and states and states and states and states and states and states and states and constrained and states and state | - | | | LperCAFE | 24(6,4) | Decinal | | • | • | 9 | 20.000 | | Light RECARE Buty | | | Verity | Back. Assi | bon | | |
| CA-142 (New) | EPA Calculated Final Average GHG Unrounded 4 Decimal | The Verify-calculated final average GHG grams per mile value that has been rounded to 4 decimal places for this CAFE/ORG Complance Category (CA-4). The average GHG value contains the incentive credit for dual-hull, alternate-fueld vehicles, but is <u>NOT</u> cogged to the maximum credit allowed for the model year (40 CFR 600.510-12(8). | | | FALSE 1 pe comp | er CAFE/GHG pliance category | N(8,4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | Verify | Back Assi End | ned | New LD-FE-CA-BR067 | Required if Model Year >=2012 |
| CA-143 (New) | EPA Calculated Final Average GHG TLAAS Unrounded 4 Decimal | The VerBy-calculated final average GHG TLAAS grams per mile value that has been rounded to 4 decimal piaces or this CAPE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-fue, alternate-fuelae vehicles, but its <u>NOT capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(i)). | | | | eer CAFE/GHG pliance category | N(8,4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | | Back Assi End | ned | New LD-FE-CA-BR068 | Regined 9 Model Your >>012 |
| CA-75 (New) | EPA Calculated Final Truck CAFE Unrounded 4 Decimal | The Verify-calculated final truck CAFE miles per gallon value that has been rounded to 4 decimal places. The CAFE value contains the incentive coeff for dual-fuel, alternate-fueled vehicles, but is <u>NOT capped</u> to the maximum credit allowed for the model year (4C re 800.516-12(h)). Required for all truck submissions. | | | FALSE 1 pe comp | er CAFE/GHG pliance category | N(8,4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | Verify | Back Assi End | ned | New LD-FE-CA-BR069 | Required II CAFEXIMO Compliance Category + Light Truck |
| CA-76 (Now) | EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal | The Verify-calculated final domestic passenger vehicle CARE miles per gallow value that has been vehicle CARE miles per gallow value that has been contains the horizonte critic for darking (a domata- haele vehicles, but is <u>NOT support</u>) to the maximum result allowed for model yarv (4C RR 00.510- rock), Roughet or all passenger vehicle submissions. | | | FALSE 1 pe comp | er CAFE/GHG pliance category | N(8,4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | Verify | Back Assi End | ned | New LD-FE-CA-BR070 | Rugulod & CAFECHIG Compliance. Category + Passanger Valicia |
| CA-77 (Now) | EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal | The Verify-abclasted final import passenger vehicle on 4 activity approximation of the second second second to 4 activity approximation of the second second second vehicles, but is <u>NCT access</u> to the maximum credit vehicles, but is <u>NCT access</u> to the maximum credit allowed for the model years (40 CFR 400 510-120). The CAFF value is <u>NCT advance</u> for the test allowed core the model years (40 CFR 400 510-120). The CAFF value is <u>NCT advance</u> for the test (b)(s), Required of all passenger vehicle submissione. | | | | er CAFE/GHG pliance category | N(8,4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | | Back Assi End | ned | New LD-FE-CA-BR071 | Rugulod & CAFECHIG Compliance. Category + Passanger Valicia |
| Debite: CAT | EPA Average FE Rounded Unadjusted 1 Decimal | The Varies scalar database arrange. The SE varies values a sub- metry and the scalar plane scalar sc | | | | CAFE | N(3.1) | Decina | | • | 2 | ٥ | 99.9 | | Light RECARE Duty | | | | Back. Assi End | | | |
| CA-144 (New) | EPA Calculated Final Average GHG Rounded Whole Number | The VerBy calculate final average OHG grams per mile value the has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average OHG value contains the incentive credit for dual-tud, attenuate-fueld value(s), but is <u>NCT</u> <u>capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(8). | | | FALSE 1 pe comp | eer CAFE/GHG pliance category | N(4,0) | Integer | | 4 | 0 | 0 | 9999 | | | | | Verify | Back Assi End | ned | New LD-FE-CA-9R072 | Required I Model Ver >=2012 |

| Pink = TBD | Orange = Changes Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|---|-----------------------|---------------------------------------|--------------------|--------------------------|---------------------------|---------|-----------------------|-----------|-----------|----------------|----------------|-------------|---------|--------------------|------------|----------------|--|--|---|
| | | | | | | | | | | | | | | | | | | | | | Ero at- | Ba ck En | |
| EPA Data | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Description | Min Max. Length Length | Total I | Fraction al Dioits | Min Value | Max Value | Allowed Values | Industry | Process Exp | ample (| IT Notes/Questions | Originator | Collectic C | End Vali ollection dati Type on | d Vali dati 20 Applicable Business Rules | English validation rules |
| CAFE Info CA-145 (New) | rmation: Uniquely identifie EPA Calculated Final Average GHG TLAAS | d by MirCode + ModelYear + CAFE Compliance Catege The Verify-calculated final average GHG TLAAS grams per mile value that has been rounded to a | ry | | FALSE | 1 per CAFE/GHG compliance category | N(4,0) | Integer | | 4 | 0 | 0 | 9999 | | | | | | Verify | Back A End | ssigned | New LD-FE-CA-BR073 | Required if Model Year >=2012 |
| | | Execution By MinCode + ModelYaar + CAFE Compliance Catego The MinCode + ModelYaar + CAFE Compliance Catego The MinCode + MinCode Catego The MinCode + MinCode + MinCode + MinCode Hardware + MinCode + MinCode + MinCode Category (CA-4). The average CHG value contains which with the MINCode + MinCode + MinCode Values + MinCode + MinCode + MinCode + MinCode Values + MinCode + Mi | | | | | | | | | | | | | | | | | | | | Ba Ba Ba Ca Ca Accounts Business Fuels Accounts Business Fuels New LD-FE-CA-BR073 | |
| CA-79 (New) | EPA Calculated Final Truck CAFE Rounded 1 Decimal | The Verify-calculated final truck CAFE miles per gallon value that has been rounded to 1 decimal place for this CAFE/GHG Compliance Category (CA- | | | FALSE | 1 per CAFE/GHG compliance category | N(5,1) | Decimal | | 5 | 1 | 0 | 9999.9 | | | | | | Verily | Back A End | ssigned | New LD-FE-CA-BR074 | Required if CAFE/OHG Compliance Category = Light Truck |
| | | The VerBy-calculated final truck CAFE miles per gallon value that has been rounded to 1 decimal place for this CAFEVIRIG Compliance Category (CA- 4). The CAFE value contains the incentive credit for dura-true, atemate-tuded vehicles, but is <u>NOT</u> appead to the maximum credit allowed for the model year (40 CFR 900.510-12(h)). Required for all truck submissions. | | | | | | | | | | | | | | | | | | | | | |
| Delete: GA-0.1 | SPA Average Passenger- Vehicle FE Unrounded TPA Adjusted & Decimal | The VerBy calculated TRA adjusted average Fuel Economy value that has been truncated to 6 decimal places for this passenger automobile compliance | - | | FALSE | 1per CAFE | N(8,6) | Docimal | | • | • | ۰ | 20.000000 | | Buty | RE CAFE | | | Varity | Back- A End | ssignod | | Calculation required when CAFE Compliance category (CA-I) = "DF or "JF"; etce, meth not be present: |
| | | category. The F5 value does not contain the credit for production of dual fuel, alternato fuel vahicles for the opplicable model year, is <u>activate</u> dy the Fest Procedure Adjustment specified in 40 CFR 600.510- 08 (o) but is truncated to 6 decimal places. | | | | | | | | | | | | | | | | | | | | | (Present only I CA-4 -oLT) |
| Delete: CA-0.2 | SPA Average Passenger- Vehicle FE Unrounded TPA Adjusted 4 Decimal | The Verily calculated TRA adjusted average Fuel- Economy value that has been truncated to 6 decimal places then rounded to 4 decimal places for this- | - | | FALSE | 1per CAFE | N(6,4) | Docimal | | • | 4 | • | 88.9999 | | Light- Duty | RE-CARE | | | Varity | Back- A End | seignod | | Calculation required when CAFE Compliance category (CA-4) = "DP" or "IP"; else, must not be present: |
| | | passanger sutambilis compliance category. The EV value does not contain the created for production of draft-fact, elternate-fact vehicles for the applicable model year, is a disturated by the Tast Procedure. Adjustment epsecified in -00 CFR 500.510-00 (c) but is trunceted to 50 decimal places then rounded to 4 docimal-places. | | | | | | | | | | | | | | | | | | | | | Press of 2CA + ol7 |
| CA-82 (Naw) | EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded | The Verify-calculated final domestic passenger vehicle test procedure adjusted CAFE value that has been rounded to 4 decimal places. The CAFE value | | | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | | Verily | Back A End | ssigned | New LD-FE-CA-BR075 | Required if CAFE/GHG Compliance Category = Passenger Vehicle |
| | Test Prodedure Adjusted 4 Decimal | This Yorfy-calculated that demonstrate parasetager hashes the separation mailgoint CAFE value that has been rounded to 4 decimal places. The CAFE value contains the credit for production of dual-tak, alternate-law vehicles. The CAFE value is <u>adjutted</u> who has to produce value taking scale is <u>adjutted</u> 400.5100 (s). The CAFE value is <u>b0T capped</u> to the tast proceed of cont the main of the para management above control for the main of the para term of the scale of the second scale of the scale vehicle submissions. | | | | | | | | | | | | | | | | | | | | | |
| CA-83 (Naw) | EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 | The Verify-calculated final import passenger vehicle test procedure adjusted CAFE value that has been rounded to 4 decimal places. The CAFE value | | | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 | 4 | 0 | 9999.9999 | | | | | | Verify | Back A End | ssigned | New LD-FE-CA-BR076 | Required if CAFE/GHG Compliance Category = Passenger Vehicle |
| | Procedure Adjusted 4 Decimal | The Verify-calculated final import passenger vehicle tast procedure adjusted CAFE vehicle that has been rounded to 4 decimal places. The CAFE value contains the credit for production of clashfuel, attenant-hal vehicles. The CAFE value is <u>adjusted</u> , by the test procedure adjustment apportion 14 or CFF R00.510-08 (e). The CAFE value is <u>NOT capped</u> to the maximum allowed credit for the model part (C CFR 600.510-12/h)). Required for all passenger vehicle submissions. | | | | | | | | | | | | | | | | | | | | | |
| Deleter | EPA Average EE Roundad | book stoles (c). The CAPE value a <u>COT capped</u> to the maximum allowed credit for the model year (40 CFR 600.510-12(h)). Required for all passenger vehicle submissions. | | | EALGE | 1 | N(2,1) | Decimal | | | _ | | 88.9 | | Links | E CASE | | | Verity | Park A | related | | Calculation considered values CAEE Consolitions enterester (C.J.A TRP or TRP rates must |
| Delete: CA-8.5 | TPA Adjusted 1 Decimal | Economy value for this passenger automobile compliance category. The FE value is <u>adjusted</u> by the Test Procedure Adjustment specified in 10 CFP. | | | | | | | | | | | | | Duty | | | | , | Back. A End | | | not be procent. (Process only E CA-4 - oLT) |
| | | then rounded to 1 decimal places. For easier data verification, the manufacturer- | | | | | | | | | | | | | | | | | | | | | |
| | | calculated average mpg value entered is allowed to- contain the extra mpg credit, where applicable, that may exceed the maximum allowable credit for production of dual fuel, alternate-fuel vehicles for the | _ | | | | | | | | | | | | | | | | | | | | |
| | | epplicable model year (Maximum credit allowed: 1.2- mgg for MY 1993-2010; 0.9 mgg for MY 2011-2014, rol: Energy Policy Act of 2005, Soction 772. (MY18/2)). The Official CAFE may value is the final- | | | | | | | | | | | | | | | | | | | | | |
| | | GATE mpg which, for example, may not exceed the 1.2 credit allowed in the 2010 model year. | | | | | | | | | | | | | | | | | | | | | |
| CA-86 | ERA Calculated Enal | The Verbucak dated final domestic parageous | | | FALSE | 1 per CAEE/GHG | N(5,1) | Decimal | | | | | 9999.9 | | | | | | Verify | Back A | related | New LD-FE-CA-BR077 | Required If CAFE/GHG Compliance Category = Passenger Vehicle |
| (Naw) | Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted | The Verify-calculated final domestic passenger vehicle test procedure adjusted CAFE value that has been rounded to 1 decimal place. The CAFE value contains the credit for production of dual-fuel, | | | PALOE | 1 per CAFE/GHG compliance category | N(5,1) | Decenar | | | · | , | 3333.3 | | | | | | verty | Back A End | sayned | New LD-FE-CARBROTT | Required in CAPEIGNO Compliance Category in Passenger Venice |
| | 1 Decimal | orialis the credit for production of dual-fuel atemate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). The CAFE value is <u>NOT casped</u> to the maximum allowed credit for the model year (40 CFR 600.510-12(h)). Required for all passinger | : | | | | | | | | | | | | | | | | | | | | |
| | | venicle submissions. | | | | | | | | | | | | | | | | | | | | New LD-FE-CA-BR078 | |
| CA-87 (New) | EPA Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal | The VerBy-calculated final import passenger vehicle test procedure adjusted CARE value that has been rounded to 1 detemp jaces. The CARE value contains the credit for production of dual fuel, statistical adjusted of the statistical statistical by the test procedure adjustment pacefile of the CRE R00.51004 (p). The CARE value is <u>NOT canced</u> to the maximum allowed credit for the model year (d) CRR 600.510-12(h)). Required for all passenger vehicle submissions. | | | FALSE | 1 per CAFE/GHG compliance category | N(5,1) | Decimal | | 5 | 1 | 0 | 9999.9 | | | | | | Verity | Back A End | ssigned | New LD-FE-CA-BR078 | Required If CAFE/GHG Compliance Category = Passenger Vehicle |
| | Decimal | alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). The CAFE value is <u>NOT capped</u> to the maximum allowed credit for the model user (40 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| CAFE & 0 Delete: CA-6.9 | HG Information: Mfr Final (Mfr Average FE- Unrounded Unadjusted 4- Decimal | Calculation Results (includes dual-fuel, alternative fuel Enter the manufacturer calculated average fuel economy miles per gallon value for this compliance category. The EF value is not adjusted by the Test | incentive credits) No FuelEconomyCAFESub mission/FuelEconomyG AEEDetails | Manufacture | nd GHG calcul TRUE | ations use ASTM-E29 ro 1por CAFE | ounding. N(6,4) | Decimal | | • | 4 | • | 80.0000 | | Light- Duty | RE CAFE | | | Mile. | Front- End | XML | | |
| | | Comparison of the second | | stocl/aluo | | | | | | | | | | | | | | | | | | | |
| | | rounding method as specified in ASTM 529-67. For easier data verification, the manufacturer- calculated average mpg value entered is allowed to- | | | | | | | | | | | | | | | | | | | | | |
| | | contain the extra mpg credit, where applicable, that may exceed the maximum allowable credit for- production of dustifuel, alternate fuel vehicles for the anticable model user (flavinum credit alternate 1.2) | - | | | | | | | | | | | | | | | | | | | | |
| | | mpg for MY 1993-2010; 0.9 mpg for MY 2011-2014, ref: Energy Policy Act of 2005, Section 772- (b)(1)2(3)). The Official CAFE mpg value is the final- | | | | | | | | | | | | | | | | | | | | | |
| | | LCANE mpg which, for example, may not exceed the 1.2 credit allowed in the 2010 model year | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| Pink = TBD | Drange = Changes Due To New Technologies (Multi | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification | | | | | | | | | | | | | | | | | |
|-------------------|---|--|--|---|----------|---------------------------------------|-------------------|--------------------------|------------------------------------|-------------------------------------|-----------|-----------|----------------|-----------------|-----------------|--------------------|------------|---|--------------------------|------------------------------------|---|
| TBD | FUELS, PHEV) | Green = Label/CAFE/GHG Changes | Red = MISC Text Edits | Changes | | | | | | | | | | | | | | olectio Cole <u>1 Point</u> Front XI End | E I | | |
| EPA Data | | | | | | | | | | | | | | | | | | | nt E End Vali V | 2 0 1 | |
| olement number | Long Name | Description d by MitCode + ModelYear + CAFE Compliance Category | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type Description | Min. Max. argth Length. Pattern | Total, Fraction Digits al Digits | Min Value | | Allowed Values | Industry | Process Example | IT Notes/Questions | Originator | olectio Cole Point Ty | ction dati di pe on o | ati n Applicable Business Rules | English validation rules |
| CA-146 (New) | Manufacturer Calculated Final Average GHG Unrounded 4 Decimal | Berchiston Ber MinCode - Model/Year x CAFE Compliance Category The manufactures calculated final sverage GHG and a second pices for the CAFE/GHG Compliance Category (CA-4). The average GHG value contains to increming care and the CAFE/GHG Compliance Category (CA-4). The average GHG value contains to be neretive care in the CAFE/GHG Compliance Second contains and a second care of the second second contains and a second care of the second second contains and second care of the second contains second contains and second contains and second second contains and second second contains second contains and second second contains second contains and second contains second contains and second second second second second contains and second second second second contains and second | | | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 4 | 0 | 9999.9999 | | | | | Mfr | Front XI End | 4 | New LD-FE-CA-BR079 | Required if Model Year >=2012 |
| | | | | | | | | | | | | | | | | | | | | | |
| CA-147 (New) | Manufacturer Calculated Final Average GHG FLAAS Unrounded 4 Decimal | The manufacturer-calculated final average GHG TLAAS grams per mile value that has been rounded to 4 decimal places for this CAFE/GHG Compliance | | | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 4 | 0 | 9999.9999 | | | | | Mr | Front XI End | | New LD-FE-CA-BR080 | Required if Model Year >=2012 |
| | | The manufacturer-calculated final average GHG TLAAS grams per mile value that has been rounded to 4 decimal places for this CAFE/GHC Complance Category (CA-4). The average GHG value contains the incentive credit for dual-fload, alternate-fuelded vehicles, but is NOT capped to the maximum cndit allowed for the model year (40 CFR 600.510-12()). | | | | | | | | | | | | | | | | | | | |
| CA-72 (Naw) | Manufacturer Calculated Final Truck CAFE Unrounded 4 Decimal | The manufacturer-calculated final truck CAFE miles per galion value that has been rounded to 4 decimal places. The CAFE value contains the bicoentive credit for dual-tual, alternate-fusied vehicles, but is <u>NOT capped</u> to the maximum credit allowed for the model year (40 CFR 600.516-120)). Required for all truck submissions. | FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture rTruck/Details/FinalTruc k/Details | Unrounded4V alue | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 4 | 0 | 9999.9999 | | | | | Mfr | Front XI End | • | New LD-FE-CA-BR081 | Required If CAFEORIO Compliance Category + Light Truck |
| CA-73 (New) | Vanufacturer Calculated Final Domestic Passenger Vehicle CAFE Unrounded Jnadjusted 4 Decimal | The manufacture-calculated final domestic passenger vehicle CAPE miles per galox vacuum term term of the second second second second second value contains the intervention contail for dual vehical alternate-vehicle vehicles, but its <u>NOT capped</u> to the maximum credit alternate vehicles <u>NOT adjusted</u> 460.516-12(h). The CAPE vehicle <u>NOT adjusted</u> for adjusted the time dialy and <u>Adjusted</u> to the test procedure adjustment specification at OCFR adjustment <u>NOT</u> adjusted for the other test procedure adjustment specification at OCFR adjustment <u>NOT</u> adjusted for the other adjustment <u>NOT</u> adjusted for the other adjustment <u>NOT</u> adjusted for the specification of the specification adjustment <u>NOT</u> adjusted for the specification of the specification of the specification of the test procedure test test <u>NOT</u> adjustment <u>NOT</u> adjusted test <u>NOT</u> ad | FualEconomyCAFESub mission/FualEconomyC AFEDetails/Manufacture r/Domestic/Patsenger/Ve hicle/Details/FinalVehicle Details | UnroundedUn adjusted4Val ue | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 4 | 0 | 9999.9999 | | | | | Mfr | Front Xi End | | New LD-FE-CA-BR082 | Rogand & CAFEOHS Compliance Category + Pessenger Valocie |
| CA-74 (Now) | Wanufacturer Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal | The manufacture collubrated from Import passing the American State and American American American randed to 4 decimal places. The CAFE value contains the locative craft for calabratic, atternate- heeler values, but is <u>IOT calabrate</u> for 0.0150 rated above of the mostly part (407 Re0.0150 rated) above of the places approximately and the places application of parameters and the state of the admitisations. | FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture rimportedPassengerVet icleDetails/FinalVehicleD etails | UnroundedUn adjusted4Val ue | FALSE | 1 per CAFE/GHG compliance category | N(8,4) | Decimal | | 8 4 | 0 | 9999.9999 | | | | | Mr | Front XU End | | New LD-FE-CA-BR083 | Regined I CAFECHIG Complexes Category + Pesanger Values |
| CA-148 (New) | Manufacturer Calculated Final Average GHG Rounded Whole Number | The manufacturer-calculated final average GHG grams per mile value that has been rounded to a whole number for this CAPE/IDR Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-toal, alternate-fueled vehicles, but it <i>BCT</i> capacit to the maximum credit allowed for the model year (40 CFR 600.510-12()). | | | | 1 per CAFE/GHG compliance category | N(4,0) | Integer | | 4 0 | 0 | 9999 | | | | | Mr | Front X0 End | L. | New LD-FE-CA-BR084 | Regulared if Medial Year >=2012 |
| CA-149 (Naw) | Manufacturer Calculated Final Average GHG FLAAS Rounded Whole Number | The manufacturer-calculated final average GHG TLAAS grams per mile value that has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit of value/sub-alternate-fuelded vehicles, but in <u>NOT capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(i)). | | | | 1 per CAFE/GHG compliance category | N(4.0) | Integer | | 4 0 | 0 | 9999 | | | | | Mir | Front XI End | L | New LD-FE-CA-BR085 | Regulard I Model Year >>8/12 |
| | | The manufacturer-calculated final truck CAFE miles per galon value that has been rounded to 1 decimal place. The CAFE value contains the incentive credit for dual-fuel, alternata-fueld vehicles, but is <u>NDT</u> capad to the maximum credit alternet for the model year (40 CFR 600.510-12(h)). Required for all truck submissions. | FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture rTruckDetails/FinalTruc kDetails | Rounded1Val ue | | 1 per CAFE/GHG compliance category | N(5,1) | Decimal | | 5 1 | 0 | 9999.9 | | | | | | Front XI End | • | New LD-FE-CA-BR006 | Ragulard & CAFEXIHIG Compliance Category + Light Truck |
| CA-80 (New) | | The manufacture-calculated final domestic presenger which test proceeding adjusted CAFE to the second second second second second second that function adjusted to the second second second second second second second second second and QCFR 6053604 (s). The CAFE value is <u>UT</u> second second second second second second and QCFR 6053604 (s). The CAFE value is <u>UT</u> second second second second second second second second second second second second present second se | FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture r/DomesticPassengerVe hicleDetails/FinalVehicle Details | UnroundedAd Justed4Value | | 1 per CAFE/GHG compliance category | N(8.4) | Decimal | | 8 4 | 0 | 9999.9999 | | | | | Mir | Front XI End | | New LD-FE-CA-BR087 | Regulard & CAFECHIG Compliance Category + Pessanger Valicie |
| CA-81 (New) | Manufacturer Calculated Final Import Passenger Vehicle CAFE Rounded Fest Procedure Adjusted 4 Decimal | The number last set of the large program of the last set of t | FuelEconomyCAFESub mission/FuelEconomyC AFEDetails/Manufacture rimportedPassengerVet icleDetails/FinalVehicleD etails | UnroundedAd Justed4Value | FALSE | 1 per CAFE/GHG compliance category | N(8.4) | Decimal | | 8 4 | 0 | 9999.9999 | | | | | Mir | Front XI End | | New LD-FE-CA-BR088 | Negaled T CMFERHS Compliance Category + Passanger Vahiole |
| Delete: CA-8-6 | Wr. Average FE Rounded. | The semiconverse strategies in the semiconverse strategies assessment of the semiconverse spectra strategies and the semiconverse str | FusiEconomyCAFESub mittionTutiEconomyC AFEDuiate | Manufacturer AverageRoun dodAdjustod Value | FALSE | 1_por CAFE | N(2.1) | Decimal | | 3 5 | • | 55.5 | | Light. Duity | FE CASE | | | End X | | | |
| CA-84 (New) | Nanufacturer Calculated Final Domestic Passenger Vehicle CAFE Rounded Fest Procedure Adjusted I Decimal | The manufacture-calculated final demestic passenger vehicles set procedure adjusted CAE value that has been rounded of 1 decimal place. The CAER value carinas the crastift or production of dual maintained by the test procedure adjustment application adjusted by the test procedure adjustment application is 40 CPR (8051-6174)). Regard to the model passenger vehicle submissions. | FuelEconomyCAFESub mission/FuelEconomyC AFEDetailsMinufacture OomesticPassengerVe hicleDetails/FinalVehicle Details | RoundedAdju sted1Value | FALSE | 1 per CAFE/GHG compliance category | N(5.1) | Decimal | | 5 1 | 0 | 9999.9 | | | | | Mfr | Front XI End | | New LD-FE-CA-BR089 | Required If CMFERING Compliance Category + Passinger Vahich |

| Pink = TBD | Orange = Changes Due To New Technologies (Multi Fuels, PHEV) | o Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | |
|-----------------------------|--|---|---|---|---------------|---|-------------------------------|-------------------------------------|----------------------|-----------------|---------------------|----------------------------|---|---------------|---------------------|-----------------|--------|---------------|-------------------------------|---|---|
| | | | | | | | | | | | | | | | | | | | Ero | Ba | |
| EPA Data | | | | | | | | Data Type | Min. Max. | Total Fractio | 20 | | | | | | | Collectio C | End Vali offection dati | Ba Ck En C Val dell G Acclosible Resiness Rules B New LD-FE-CA-BR000 | |
| CAFE Info CA-85 | Long Name mation: Uniquely identifie Manufacturer Calculated | Description d by MirCode + ModelYear + CAFE Compliance Catego The manufacturer-calculated final import passenger vehicle test procedure adjusted CAFE value that has been rounded to 1 doclimal place. The CAFE value | FuelEconomyCAFESub | XML Tag RoundedAdju | FALSE | Multiplicity 1 per CAFE/GHG compliance category | Basic Data Type N(5,1) | Decimal | ength Length. Patter | 5 1 | 0 | <u>Max Value</u> 9999.9 | Allowed Values | Industry. | Process Example (T) | Notes/Questions | Mr | Front | XML 00 | New LD-FE-CA-BR090 | English validation rules Required if CAFE/GHG Compliance Category = Passenger Vehicle |
| | Test Procedure Adjusted 1 Decimal | contains the credit for production of dual/teal, advantate-law brickes. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510.48 (c). The CAFE value is <u>NOT carced</u> to the maximum allowed credit for the model year (40 CFR 600.510.12(b)). Required for all passenger vehicle submissions. | rimportedPassengerVeh IcleDetails | sted1Value | | | | | | | | | | | | | | End | | | |
| CAFE & C | HG Information: EPA's Of EPA Official Average GHG Grams Per Mile | ficial Calculation Results (includes "capped" alternative The official Verify-calculated final average GHG | -fuel, dual-fuel credits) | Note: All CA | FE and GHG | alculations use ASTM-E | 29 rounding. N(4,0) | Integer | | 4 0 | 0 | 9999 | | | | | Verify | Back A | isigned | New LD-FE-CA-BR091 | Required if Model Year >=2012 |
| | | The official Verify-calculated final average GHG grams per mile value that has been rounded to a whole number for this CAPE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-fue, alternate-fuelde vehicles. The average GHG value is <u>categord</u> to the maximum credit advewd for the model year (40 CFR 600.510-12()). | | | | compliance category | | | | | | | | | | | | End | | | |
| CA-152 (New) | EPA Official Average GHG TLAAS Grams Per Mile | The official Verify-calculated final average GHO TLAAS grame per mile value that has been rounded to a whee number of this CAFE/IGHO Compliance Category (CA-4). The average GHO value contains the incentive credit for dual-kids, alternate-fueld vehicles. The average GHO value is <u>capped</u> to the maximum credit advewd for the model year (40 CFR 600.510-12()). | | | FALSE | 1 per CAFE/GHG compliance category | N(4,0) | Integer | | 4 0 | 0 | 9999 | | | | | Verity | Back A End | isigned | New LD-FE-CA-BR092 | Rogded I Model Your >>012 |
| | EPA Official Truck CAFE Miles Per Galion EPA Official Domestic | The official Verify-calculated final truck CAPE miles per gallon value that has been rounded to 1 decimal place. The CAPE value contains the hisconive credit for dual-fuel, alternate-fueld vehicles. The CAPE value is cagaed to the maximum credit allowed for the model year (40 CPR 600.510-12(h)). Required for all truck submissions. | | | FALSE | 1 per CAFE/GHG compliance category 1 per CAFE/GHG | N(5,1) N(5,1) | Decimal | | 5 1 | 0 | 9999.9 | | | | | | Back Ar | isigned | New LD-FE-CA-BR093 New LD-FE-CA-BR094 | Required IF CAFECING Compliance Calogory + Light Track Required IF CAFECING Compliance Calogory + Passenair Valicia |
| (New) | Passenger Vehicle CAFE Miles Per Gallen | The difficial Verif-calculated final domesic passenger vehicle tes procedure adjusted CAFE value that has been rounded to i docimal pitos. The CAFE value canabies the urent for production of lease adjusted by the test procedure adjustment specified in 60 CFF 80031-100 (c). The CAFE value is asystem to the maximum aboved credit for the model year 400 CFF 80031-100, Required for all passenger vehicle submissions. | | | | compliance category | | Decimal | | 5 1 | • | | | | | | | Back A End | isigned | | |
| | EPA Official Import Passenger Vehicle CAFE Miles Per Gation | contains the credit for production of dual-fuel, atternate-level vehicles. The GAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 690.510.40 (c). The CAFE value is <u>canned</u> to the maximum allow ed credit for the model year (40 CFR 690.510-12(h)). Required for all passenger vehicle submissions. | | | | 1 per CAFE/GHG compliance category | N(5,1) | Decimal | | 5 1 | 0 | 9990.9 | | | | | Verify | Back A End | isigned | New LD-FE-CA-BR095 | Roquind I CAFEOIO, Compliano, Calogory + Pessinger Vallade |
| CAFE & C Delete: CA-9 | HG Information: Mfr's Offi Manufacturor Final CAFE- Milos Por Gallon | cial Calculation Results (includes "capped" alternative Enter the Official Corporate Average Fuel Economy to miler prevailse for the CAEE compliance | fuel, dual-fuel credits) N FuelEconomyCAFESub | ote: All CAFE a | Ind GHG calcu | dations use ASTM-E29 ro 1 por CAFE | ounding. N(3,1) | Decimal | | 3 1 | • | 99.9 | | Light. | E CAPE | | Mite | Front- End | XML | | |
| | Official CAFE Miles Per- Gallen | Enter the Official Corporate Average Fast Seconsmy is smiles per galanties of the CAFE compliance. retegory - it may include the credit, where explicible, up to the assimum allow able may allow for production of dual fast, statemate-fast-whites. (Meximum credit showd -1: Amg/or VMI-1992 eVE) the simple of the 2011-2014, est: Energy Policy Act of 2006, Socian 772 (b)(18(2)) | AFEDetails | | | | | | | | | | | | | | | | | New LD-FE-CA-BR095 | |
| | Manufacturer Calculated Official Average GHG Grams Per Mile | The official manufacture-calculated final average OHG grams per mile value that has been rounded to a whole number for this CAFE/BHG Compliance Category (C4-N). The average OHG value contains the incentive credit for duals/sult, alternate-fueled vehicles. The average GHG value is capacity to the maximum credit allowed for the model year (40 CFR 600.510-12()). | | | FALSE | 1 per CAFE/GHG compliance category | N(4,0) | Integer | | 4 0 | • | 9999 | | | | | Mir | End | XML | New LD-FE-CA-BR096 | Required # Model Your1012 |
| | Manufacturer Calculated Official Average GHG TLAAS Grams Per Mile | The official manufacture-calculated final average OHD TLAS gramp per mile value that has been rounded to a whole number for this CAFEIGHO Compliance Category (CA-1). The average GHO value contains the incentive credit for dual-vul, alternate-fuside velocities. The average GHO value is cagged to the maximum credit allowed for the model year (40 CFR 600.510-12()). | | | FALSE | 1 per CAFE/GHG compliance category | N(4.0) | Integer | | 4 0 | 0 | 9999 | | | | | Mir | Front End | XML | | |
| | Manufacturer Calculated Official Truck CAFE Miles Per Gallon | The official manufacturer-calculated final truck CAFE miles per gallon value that has been rounded to 1 decimal place. The CAFE value canothas the locentre credit for dual fuel, alternate-fueled vehicles. The CAFE value is capacit to the maximum credit allowed for the model year (40 CFR 600.51012(h)). Required for all truck submissions. | FuelEconomyCAFESub mission/FuelEconomyC AFEDetailsManufacture rTruckDetails | OfficialMPGV alue | FALSE | 1 per CAFE/GHG compliance category | N(5,1) | Decimal | | 5 1 | 0 | 9999.9 | | | | | Mfr | End | XML | New LD-FE-CA-BR098 | Required If CAFE/OHO Compliance Category + Light Truck |
| CA-89 (New) | | The official manufacture-calculated final domastic preserving that here are proceeding adjusted for. The CARE value constants the credit or production of the CARE value constants the credit or production of the flag. attempt of the constant of the CARE value is adjusted by the sup product adjustment specified in dig CHR 00.510-001 (b). The CARE value is good CRR 00.510-010), Regulard for all passenger vehicle submissions. | FuelEconomyCAFESub mission/FuelEconomyC AFEDetailsManufacture rDomesticPassengerVe hicleDetails | OfficialMPGV alue | | 1 per CAFE/GHG compliance category | N(5,1) | Decimal | | 5 1 | 0 | 9990.3 | | | | | Mfr | End | XML | New LD-FE-CA-BR099 | Angeled I CAFFOHG Completion Cologory + Passinger Velicie |
| | Manufacturer Calculated Official Import Passenger Vehicle CAFE Miles Per Gallon | CAFE value contains the credit for production of dua land, alternate-fueld vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-610, https://cAFE value is capped to the maximum allowed credit for the model year (40 CFR 600.510-120)). Required for all passenger vehicle submissions. | | | | 1 per CAFE/GHG compliance category | N(5,1) | Decimal | | 5 1 | 0 | 9999.9 | | | | | Mr | End | XML | New LD-FE-CA-BR100 | Required II CATEONO Compliance Category - Passenger Yellich |
| CA-10 | Applicable CAFE Standard CAFE Standard Type | For Each CAFE Compliance Category Enter the applicable CAFE standard type for this CAFE Compliance Category. | FuelEconomyCAFESubm Ission/FuelEconomyCAF EDetails | StandardTypel ndicator | FALSE | (Including parameters ne 1 per CAFE | A(1) | Light-Duty Truci Enumeratio n | k reformed CAFE star | dards for an in | dividual mfr for MY | 2010 and later) | R = Reformed CAFE U = Urreformed CAFE (existing requirements) | Light Duty | E CAFE | | Mfr | Front End | XML | Delete LD-FE-CA-BR003 Update LD-FE-CA-BR004 | Required for CARE Compliance Category (CA-I) = 17-ad-ani alivani kr. CIF-ad-37. For MY 2011 and bayond, when CARE Compliance Category (CA-I) = 1.7-, CARE Type Indiator mat = 17. |

| Pink = TBD | Drange = Changes Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|--|---|---|----------|---|-------------------|--------------------|-----------|-------------------------|-----------|-----------|----------------------------|----------------|-----------|--------|---|-------------------|------------------------------------|-------------------------|--|--|
| | | | | | | | | | | | | | | | | | | | | Ba Eno cik Di: En | | |
| EPA Data | | | | | | | | Data Type Min | Max | Total Fraction | | | | | | | | ~ | utio Color | End d Vali Vali | | |
| CAFE Inform | ong Name nation: Uniquely identified CAFE Standard | Description 1 by MfrCode + ModelYear + CAFE Compliance Catego | Parent's Name ory | XML Tag | Required | Multiplicity | Basic Data Type | Description Length | Length Pa | attern Digits al Digits | Min Value | Max Value | Allowed Values | Industry | Process E | alqmax | | inator n.F | oint Typ | 8 20 20 | Applicable Business Rules | English validation rules |
| | | The applicable CAFE standard for this CAFE compliance category. | | | TRUE | 1 per CAFE | N(3,1) | Decimal | | 3 1 | 0 | 99.9 | | Light Duty | FE CAFE | | Send an annual (in Jan. 2) email Ven molfication to the EAR And encorrently wave to check or update the CAFE Standard and the CAFE Standard Cardiolations. If CAFE Type Indication (CA-10) = K* fren this value to polide from EPA Catchained 22.7, dets FCA-10 – V then book-up from CAFE Standards by Model Year and Compliance Category table. | ntity B | ick Assig | ned | | Pric CME Completions Category (CA-10) = VP (* P) this value must equal the value in the last of book value the transmit Value (CA-10) and VD (* CA-10) and VD |
| CA-14 N | | Calculation Enter the applicable Model Type Index for this CAFE submission. | FuelEconomyCAFES.ubm ission/FuelEconomyCAF EDetails/EPAGeneratedF uelEconomyCAFEDetails /EPAReformedModelTyp eDetails | ModelTypeInd exNumber | FALSE | 1n (1 for each Model Type for this CAFE.) | N(3) | Irteger | | CAFE Type Indicator (| 1 | 999 | | Light Duty | FE CAFE | | Verify will reference FE Label information by the primary key = Model Year (CA-1) + Mfr Code (CA-0) + Model Type Index (CA- 14). | rity Bac #+ Fi | kend Pro exist ant- ad XM | b Ing L | LD-FE-CA-BR005a LD-FE-CA-BR005b LD-FE-CA-BR005c LD-FE-CA-BR005d LD-FE-CA-BR005 LD-FE-CA-BR005 | Required if CAFE Type Indicator (CA-10) + R1, olse not allowed. |
| CA-11.5 C | Carline Manufacturer Code | The carline manufacturer code derived from the FE Label information referenced by the combination of Model Year (CA-1), Mfr Code (CA-0), and Model Type Index (CA-14). The division code derived from the FE Label information | | EPAManufact urerCode | FALSE | 1n (1 for each Model Type for this CAFE.) | A(3) | String 3 | 3 | | | | | Light Duty | FE CAFE | | GL-10 Ve | rify B E | nd exist dat | ⊳ ing a | New LD-FE-CA-BR138 | Required if CAFE Type Indicator (CA-10) = 'R'; else not allowed. |
| | Division Code | reterenced by the combination of Model Year (CA-1), Mfr Code (CA-0), and Model Type Index (CA-14). | EDetails/ReformedStand ardCalculationDetails/Fin aModelYearProductionD etails | ManufacturerD IvisionCode | FALSE | 1n (1 for each Model Type for this CAFE.) | N(2) | Integer | | | 1 | 99 | | Light Duty | FE CAFE | | GL-11 Ve | irify B E | dat | ing a | Now LD-FE-CA-BR139 | Required if CAFE Type Indicator (CA-10) = 'R'; else not allowed. |
| CA-13 C | Carline Code | The carline code derived from the FE Label information referenced by the combination of Model Year (CA-1), Mfr Code (CA-0), and Model Type Index (CA-14). | FuelEconomyCAFESubm ission/FuelEconomyCAF EDetails/ReformedStand ardCaloulationDetails/Fin aModelYearProductionD etails | CarlineCode | FALSE | 1n (1 for each Model Type for this CAFE.) | N(3) | Integer | | | 1 | 999 | | Light Duty | FE CAFE | | GL-12 Ve | rity B E | ick Pro nd exist dat | b ing a | Now LD-FE-CA-BR140 | Required if CAFE Type Indicator (CA-10) = \mathbb{R}^{*} , else not allowed. |
| CA-14.1 | lasis Engine Index lest Group | The basic ongine index test group derived from the FE Label information referenced by the combination of Model Year (CA-1), Mir Code (CA-0), and Model Type Index (CA-14). | | | FALSE | 1n (1 for each Model Type for this CAFE.) | A(12) | Fixed 12 String | 12 | | 4 | 999 | | | FE CAFE | | GL-13.5 Vo | rify B E | nd exist dat | | New LD-FE-CA-BR141 | Required if CAFE Type Indicator (CA-10) = 'R', else not allowed. |
| CA-14.2 T | ransmission Class Index | The transmission class index derived from the FE Label information referenced by the combination of Model Year (CA-1), Mir Code (CA-0), and Model Type Index (CA-14). | | | FALSE | 1n (1 for each Model Type for this CAFE.) | N(3) | Integer | | | 1 | 999 | | Light Duty | FE CAFE | | GL-66 Ve | rify B E | nd exist dat | ⊳ ing a | New LD-FE-CA-BR142 | Required if CAFE Type Indicator (CA-10) = R', else not allowed. |
| CA-155 (New) li | CAFE Domestic/Import ndicator | (CA-14). Enter the applicable domestic or import indicator for this Model Type Index. This is required for passenger vehicle CAFE calculations. | | | FALSE | 1n (1 for each Model Type for this CAFE.) | A(1) | Enumeratio n | | | | | D = Domestic I = Import | Light Duty | FE CAFE | | N | llr Fi | nd XM | L | New LD-FE-CA-BR101 | Required if Compliance category is equal to Passenger Vehicle, otherwise not allowed |
| CA-156 (New) | 3HG TLAAS Indicator | Is this Model Type Index to be included in GHG TLAAS calculations? | | | FALSE | 1n (1 for each Model Type for this | A(1) | Enumeratio | | | | | Y = Yes N = No | Light Duty | FE CAFE | | | llr Fi | ont XM | L | New LD-FE-CA-BR102 | Required if Model Year >=2012 |
| CA-157 ((New) T | 3HG Advanced Technology Indicator | Is this Model Type Index a fuel cell vehicle, EV or PHEV ? | | | FALSE | CAFE/GHG.) 1n (1 for each Model Type for this | A(1) | Enumeratio n | | | | | Y = Yes N = No | Light Duty | FE CAFE | | Where is this data coming from. Verif (Calculation?, other dataset?) | y Bao Enc | k Pre- existin | v . | New LD-FE-CA-BR103 | Required if Model Year >=2012 |
| CA-14.5 F | Footprint Index | Verify-generated Enter the applicable footprint index. | | FootprintIndex Number | FALSE | CAFE/GHG.) 1n (1 for each footprint per Model Type) | N(2) | Integer | | 2 0 | 1 | 99 | | Light Duty | FE CAFE | | FT-5 Ve | rity B | data idk Pre nd exist | | New LD-FE-CA-BR143 | Required if CAFE Type Indicator (CA-10) = 'R', else not allowed. |
| CA-15 N | Nodel Type Footprint Description | Enter the manufacturer's model type and footprint description (e.g. 'super cab, 4WD, long bod, Dooley''; 'super cab, 2WD, short bed'', etc.). Repeat for each footprint within this model type index. | | | FALSE | 1n (1 for each footprint within each Model Type for this CAFE.) | A(300) | string 1 | 300 | | | | | | FE CAFE | | FT-6 Va | | dat ck Pre | a | New LD-FE-CA-BR144 | Required if CAFE Type Indicator (CA-10) = 'R'; else not allowed. |
| CA-158 F (New) G | Footprint Final Model Year BHG Production Units | Enter the final model year greenhouse gas production units of this footprint for this model type. | | | FALSE | 1_n (1 for each footprint within each Model Type for this CAFE/GHG.) | N(7) | Integer | | 7 0 | 1 | 9999999 | | Light Duty | FE CAFE | | Note to CSC: The production units that apply to fuel economy (CAFE) may be different than the production units that apply to the GH40/CREE calculation. LE. emergency vehicles, sales in U.S. Territorice, etc. The GHG sales will be added in Phase 2. | llr Fi | ont XM | L | New LD-FE-CA-BR104 | Required I Model Year >>2012 |
| | ootprint Final Model Year E Production Units | | FuelEconomyCAFESubm Ission/FuelEconomyCAF EDetails/ReformedStand ardCalculationDetails/Fin alModelYearProductionD etails | FinalModelYea rProductionNu mber | FALSE | 1n (1 for each footprint within each Model Type for this CAFE.) | N(7) | Integer | | 7 0 | 1 | 9999999 | | Duty | FE CAFE | | Note to CSC: The production units that apply to fuel economy (CAFE) may be different than the production units that apply to the GHGCREE calculation. I.E. emergency vehicles, railes in U.S. Territories, etc. The GHG sales will be added in Phase 2. | | nt XM nd | | LD-FE-CA-BR007 New LD-FE-CA-BR145 | Required if CAFE Type Indicator (CA-10) = IR, else not allowed. |
| CA-16 V | Wheel base (inches) | Enter the wheel base of this footprint for this model type measured in inches and rounded to one tenth of an inch- | | | FALSE | 1n (1 for each footprint within each Model Type for this CAFE.) | N(5,1) | Decimal | | 5 1 | 0.1 | 9999.9 | | Light Duty | FE CAFE | | Ve | rify B E | nd exist dat | a a | New LD-FE-CA-BR146 | Required if CAFE Type Indicator (CA-10) = 'R', else not allowed. |
| CA-17 F | ront Track Width (inches) | Enter the front track width of this footprint for this model type measured in inches and rounded to one tenth of an inch. | | | FALSE | 1n (1 for each footprint within each Model Type for this CAFE.) | N(4,1) | Decimal | | 4 1 | 0.1 | 999.9 | | Light Duty | FE CAFE | | Ve | rify B E | nd exist dat | ⊳ ing a | New LD-FE-CA-BR147 | Required if CAFE Type Indicator (CA-10) = R', else not allowed. |
| CA-18 F | Rear Track Width (inches) | Enter the rear track width of this footprint for this model type measured in inches and rounded to one terth of an inch. | 1 | | FALSE | 1n (1 for each footprint within each Model Type for this CAFE.) | N(4,1) | Decimal | | 4 1 | 0.1 | 999.9 | | Light Duty | FE CAFE | | Ve | rify B | ick Pro nd exist dat | > | New LD-FE-CA-BR148 | Required if CAFE Type Indicator (CA-10) = 'R', else not allowed. |
| CA-19 F | Footprint (square feet) | The Verify-calculated area of this footprint for this mode type according to the footprint definition specified in 49 CFR 523.2. | 8 | | FALSE | 1n (1 for each footprint within each Model Type for this CAFE.) | N(4,1) | Decimal | | 4 1 | 0.1 | 999.9 | | Light Duty | FE CAFE | | display it on the front end using the following equation: | rify B E | ick Pro nd exist dat | | New LD-FE-CA-BR149 | Required if CAFE Type Indicator (CA-10) = 'R', else not allowed. |
| | | | | | | | | | | | | | | | | | Poopint = (((Fiort Track Width (CA-17) + Raar Track Width (CA-16)) / 21 Monthates (CA-16) / 21 Monthates (CA-16) / 14 founded to one wounding procedures. The result should then be stored on the back and Any changes to CA-17, CA-18 or CA-16 should trigger a recelutation of the value. | | | | | |
| (New) T | EPA Calculated Footprint Farget GHG Value (grams ser mile) | Enter the EPA-calculated target greenhouse gas value (in grame per mile) of this footprint for this model type. The EPA-calculated value will be the official value used to calculate the GHG standard for this compliance category. | | | FALSE | 1_n (1 for each footprint within each Model Type for this CAFE/GHG.) | N(5,2) | Decimal | | 5 2 | 0.01 | 999.99 | | Light Duty | FE CAFE | | Verify should compare this value with the EPA-calculated value (CA-21.5) and report any discrepancy in the submission processing report sent to the mit. The discrepancy status should be stored and displayed on the back and. | rily Bac | kend Pre exist Dai | ing in | New LD-FE-CA-BR105 | Required if Model Year >=2012 |
| Delete: A GA 21 F Ø | Asnufacturer Calculated Souprint Terget FE Velue miles per gallon) | Enter the associations consideration target had economy value (minites per galance) of this fooghts for this model type. The ERP extended value will be the efficial value used to calculate the CASE. Mandred for this compliance category. | FusiEconomyCAFESub mission/FusiEconomyG AFEDotale/ReformedSt andsrdCatale/ReformedSt andsrdCatalianDotal entite/NodelTypeD entite/NodelTypeFootpri ntDotalis | TargetMilesP erGellonValue | SALSE | 1n (1 for each footprint within each Model Type-for this CAFE) | N(5,2) | Docimal | | 5 2 | 0.01 | 222.00 | | Light- Buty | FE CAFE | | Varity-choide compare this value with. Vo the CPA-celester value (CA-X) and report may discorpancy in ba- exhibition processing report can be be mit The discorpancy status choude be stored and displayed on the back stat. | nity Bac Br Fi | kand Per exist nd Dat XM | | Dekte LD-FE-CA-BR007a, Dekte LD-FI CA-BR007b, Dekte LD-FE-CA-BR007c | Required 2 CAPE Type Indicator (CA-16) = TY, elice and allowed. |

| Orange = Changes Due T Pink = TBD Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Blue = Misc Certification Red = Misc Text Edits Changes | | | | | | | | | | | | | | | | | | |
|--|---|---|----------------------|--|------------------------------|-------------------------------------|----------------------------------|----------------------------------|--------------------|--------------------|---------------------|----------------|------------------|--|------------|-------------------------|-------------------------------------|-------------------------------------|---|---|
| | | | | | | | | | | | | | | | | | E | Ba o ok E En | Applicable Business Rules New LD-FE-CA-BR159 | |
| EPA Data element number Long Name | Description | Parent's Name XML Tag | Required | Multiplicity | Basic Data Type | Data Type M Description Le | Ain. Max. nath Lenath Pattern | Total Fractio Digits al Digit | 0 S Min Value | Max Value | Allowed Values | Industry | Process. Example | IT Notes/Questions | Originator | Collectio S | Ei Vi Collection da Type o | d d. 16 Vali 16 dati 10 00 | Applicable Business Rules | English validation rules |
| CAFE Information: Uniquely identifi CA-21.5 EPA Calculated Footprin Target FE Value (miles p callen) | Description dip VIII/Code + ModelYear + CAFE Compliance Catego The EPA-calculated target tuti economy value (in miles per galand) of the toophrit for this would type. This will be the official value used to calculate the CAFE standard for this compliance category. | y III | FALSE | 1n (1 for each footprint within each Model Type for this CAFE.) | N(5,2) | Decimal | ngth Length Pattern | 5 2 | 0.01 | 999.99 | | Light Duty | FE CAFE FT-14 | Verify should compare this value with the mfr.calculated value (CA-21) and report | Verity | Back End | Pre- existing Data | | New LD-FE-CA-BR150 | Required if CAFE Type Indicator (CA-10) = 'R', else not allowed. |
| (gancer) | standard for this compliance category. | | | to an on c., | | | | | | | | | | any discrepancy in the submission processing report sent to the mfr. The discrepancy status should be stored and displayed on the back end. | | | Assigned | | | |
| | | | | | | | | | | | | | | See separate FE calculation document for the equation as well as the table of required coefficients (Section 533.3, Table V – Parameters for the Reformed CAFE FE targets) by model year. This table should be modfliable by EPA. | | | | | | |
| | | | | | | | | | | | | | | V Parameters for the Reformed CAFE FE Targets) by model year. This table should be modifiable by EPA. | | | | | | |
| CA-21.7 EPA Calculated Footprin Target FE Discrepancy- | The EPA-calculated discrepancy between the manufacturer and EPA Target FE values. | | FALSE | 1_n (1 for each- footprint within each- | N(5,2) | Decimal | | 5 2 | -999.99 | 220.25 | | Light- Duty | RE CARE | This value is the difference between the EPA feetprint target FE value (CA-21.5). | Verily | Back- End | Rra- existing- | | | Required # CAFS Type Indicator (CA-10) = 'R', else not allowed. |
| Value | | | | Model Type for this GAFE) | | | | | | | | | | and the mir footprint target FE value- (CA 21)- footprint arget FE discrepance/(alup /CA | | | Data | | | |
| CA-160 Manufacturer Calculated (New) Unrounded GHG Standar | Enter the manufacturer calculated unrounded GHG d standard for this compliance category. | | FALSE | 1 per CAFE | N(5,1) | Decimal | | 5 1 | 0.0 | 9999.9 | | Light Duty | FE CAFE | 31.7) - (CA-21.5) - (CA-21) | Mr | Front | XML | | New LD-FE-CA-BR154 | Required if Model Year >=2012 |
| CA-161 EPA Calculated (New) Unrounded GHG Standar | The EPA calculated unrounded GHG standard for d this compliance category. | | FALSE | 1 per CAFE | N(5,1) | Decimal | | 5 1 | 0.0 | 9999.9 | | Light Duty | FE CAFE | | Verify | Back a | Assigned | | New LD-FE-CA-BR106 | Required if Model Year >=2012 |
| CA-162 EPA Calculated (New) Unrounded GHG Standar Discrepancy Value | The EPA-calculated discrepancy between the d manufacturer and EPA calculated GHG standards. | | FALSE | 1_ per CAFE | N(5,1) | Decimal | | 5 1 | -9999.9 | 9999.9 | | Light Duty | FE CAFE | | Verify | Back A | Assigned | | New LD-FE-CA-BR0107 | Required if Model Year >=2012 |
| CA-163 EPA Calculated Final GH (New) Standard | The EPA calculated final GHG standard for this compliance category that has been rounded to a whethe sumbars | | FALSE | 1 per CAFE | N(4,0) | Integer | | 4 0 | 0 | 9999 | | Light Duty | FE CAFE | | Verify | Back A | Assigned | | New LD-FE-CA-BR0108 | Required if Model Year >=2012 |
| CA-164 Manufacturer GHG (New) Comments CA-22.3 Manufacturer MF- | Enter any comments for this GHG. | EuroEconomic AEES: http://www.facturercf | FALSE FALSE | 1 per CAFE | A(1000) | string | 1 1000 | 7 4 | 0.0000 | 999.9699 | | Light Duty | FE CAFE | | Mr | Front End | XML | | New LD-FE-CA-BR109 | Required if Model Year >=2012 Required if CAFE Type Indicator (CA-10) = 'R', else not allowed. |
| Calculated Unrounded Reformed CAFE Standar | Enter the manufacturer calculated unrounded reformed CAFE standard for this compliance category. | FuelEconomyCAFESubm ManufacturerC Ission/FuelEconomyCAF EDetails/ReformedStand ardCaloulationDetails e | | in per con c | 10(14) | Decima | | | 0.0000 | 222-2222 | | Duty | FE CAFE | | | Front End | AND . | | LD-FE-CA-BR018 | respanse i uni si rippe nasseno (uni rej i ri, san no morno. |
| CA-22 EPA Calculated Unrounded Reformed CAFE Standard | The EPA calculated unrounded reformed CAFE standard for this compliance category. | FuelEconomyCAFESubm CalculatedUni Ission/FuelEconomyCAF EDetails/EPAGeneratedF medStandard uelEconomyCAFEDetails Value | FALSE | 1 per CAFE | N(7,4) | Decimal | | 7 4 | 0.0000 | 999.9999 | | Light Duty | FE CAFE | See separate FE calculation document for the equation. | Verity | Back . End | Assigned | | New LD-FE-CA-BR151 | Required if CAFE Type Indicator (CA-10) = 'R', else not allowed. |
| CA-22.5 EPA Calculated Unrounded Reformed CAFE Standard Discrepancy Value | The EPA-calculated discrepancy between the manufacturer and EPA calculated reformed CAFE standards. | FuelEconomyCAFESubm Ission/FuelEconomyCAF EDetails/EPAGeneratedF uelEconomyCAFEDetails | FALSE | 1 per CAFE | N(7,4) | Decimal | | 7 4 | -999.9999 | 999.9999 | | Light Duty | FE CAFE | This value is the difference between the EPA Calculated Unrounded Reformed CAFE Standard (CA-22) and the Mfr Calculated Unrounded Reformed CAFE Standard (CA-21). | Verity | Back . End | Assigned | | New LD-FE-CA-BR152 | Required if CAFE Type Indicator (CA-10) = 'R', else not allowed. |
| CA-22.7 EPA Calculated Final | | | | | | | | | | | | | | calcReformCAFEdiscrepancyValue (CA- 22.5) = (CA-22.3) | | | | | New LD-FE-CA-BR153 | |
| CA-22.7 EPA Calculated Final Reformed CAFE Standar | The EPA calculated final reformed CAFE standard for this compliance category that has been rounded to one decimal place. | FuelEconomyCAFESubm CalculatedFina ission/FuelEconomyCAF ReformedSta EDetails/EPAGeneratedF ndardValue uelEconomyCAFEDetails | FALSE | 1 per CAFE | N(4,1) | Decimal | | 4 1 | 0.0000 | 999.9999 | | Duty | FE CAFE | See separate FE calculation document for the equation. | Verity | Back . End | Assigned | | New LD-FE-CA-BR153 | Required if CAFE Type Indicator (CA-10) = 'R', else not allowed. |
| CA-23 Manufacturer Reformed CAFE Comments | Enter any comments for this reformed CAFE. | FuelEconomyCAFESubm ManufacturerF Ission/FuelEconomyCAF eformedCom EDetails/ReformedStand mentsText ardCaloulationDetails | FALSE | 1 per CAFE | A(1000) | string | 1 1000 | | | | | Light Duty | FE CAFE | | Mfr | Front End | XML | | | |
| CAFE Calculation Inform NEW Carline Manufacturer Cor CA-25.1 | tion (Model Type Information — a unique combination o Enter the applicable Carline Manufacturer Code for this Model Type Index. | I CarLine, Basic Engine and Transmissi FuelEconomyCAFESubm Ission/FuelEconomyCAF | on Class (No TRUE | ote- all of the Model Type d 1n (1 for each Model Type for this CAFE.) | lescription info sul A(3) | bmitted in FE La Fixed String | bel will be used for CA | VFE, even thou | gh it is not shown | here with the CAFE | data requirements)) | Light Duty | FE CAFE | | Mr | Front | XML | | | |
| CA-25 Model Type Index | | EDetails/CalculationDetail s FuelEconomyCAFESubm ModelTypeInc ission/FuelEconomyCAF EDetails/CalculationDetail | TRUE | 1 n (1 for each Model Type for this CAFE.) | N(3) | Enumeratio | | | 1 | 999 | | | FE CAFE | Reference all model type info in FE Label via this model type index (CA-25) + mfr code (CA-0) + model year (CA-1). | Mfr | Front End | XML | | LD-FE-CA-BR008 | Model Type Index (CA-25) + Mfr Code (CA-0) + Model Year (CA-1) must exist in FE Label. |
| | category. All model type indices created in FE Label for a | EDetails/CalculationDetail | | Type for the dort E.J | | Integer | | | | | | Duy | | code (CA-0) + model year (CA-1). | | LING | | | LDH L DH DH DH DH | Labor. |
| | All model type indices created in FE Label for a manufacturer and model year must be used in one of the CAFE compliance categories for that same manufacturer and model year, worept for policelemergency model types. | | | | | | | | | | | | | | | | | | | |
| Verify-Calculated Model Type Level CA-165 EPA Calculated Baseline (New) Model Type City GHG Value 1 decimal | Relds (Intermediate Calculations) Verify calculated intermediate calculation. | | FALSE | 1 per Model type Index | N(5,1) | Decimal | | 5 1 | 0 | 9999.9 | | | | | Verify | Back a | Assigned | | New LD-FE-CA-BR110 | Required If Model Year >=2012 |
| CA-166 EPA Calculated Baseline (New) Model Type Highway GH Value 1 decimal | Verify calculated intermediate calculation. | | FALSE | 1 per Model type Index | N(5,1) | Decimal | | 5 1 | 0 | 9999.9 | | | | | Verify | Back A | Assigned | | New LD-FE-CA-BR111 | Required if Model Year >=2012 |
| CA-167 EPA Calculated Baseline | Verify calculated intermediate calculation. | | FALSE | 1 per Model type Index | N(5,1) | Decimal | | 5 1 | 0 | 9999.9 | | | | | Verify | Back A | Assigned | | New LD-FE-CA-BR112 | Required if Model Year >=2012 |
| (New) Model Type Combined GHG Value 1 decimal | Verify calculated intermediate calculation. | | FALSE | 1 per Model type Index | N(4,0) | Integer | | 4 0 | 0 | 9999 | | | | | Verily | Back A | Assigned | | New LD-FE-CA-BR113 | Required if Model Year >=2012 |
| (New) Model Type Combined GHG Value Whole Numb CA-169 EPA Calculated Final | r Verify calculated intermediate calculation | | FALSE | 1 per Model type Index | N(5,1) | Decimal | | 5 1 | 0 | 9999.9 | | | | | Verity | | Assigned | | New LD-FE-CA-BR114 | Required if Model Year >=2012 |
| (New) Model Type City GHG Value 1 decimal CA-170 EPA Calculated Final | Verify calculated intermediate calculation. | | FALSE | 1 per Model type Index | N(5,1) | Decimal | | 5 1 | 0 | 9999.9 | | | | | Verily | Back A End Back A | Assigned | | New LD-FE-CA-BR115 | Required if Model Year >=2012 |
| (New) Model Type Highway GH Value 1 decimal CA-171 EPA Calculated Final (New) Model Type Combined | 3 Verify calculated intermediate calculation. | | FALSE | 1 per Model type Index | N(5,1) | Decimal | | 5 1 | 0 | 9999.9 | | | | | Verily | End Back / | Assigned | | New LD-FE-CA-BR116 | Required if Model Year >=2012 |
| (New) model 1 ype Combined GHG Value 1 decimal CA-172 EPA Calculated Final (New) Model Type Combined | Verify calculated intermediate calculation. | | FALSE | 1 per Model type Index | N(4,0) | Integer | | 4 0 | 0 | 9999 | | | | | Verify | End Back / | Assigned | | New LD-FE-CA-BR117 | Required if Model Year >=2012 |
| GHG Value Whole Numb CA-173 EPA Calculated Model | r Verify calculated intermediate calculation. Based on | | FALSE | 1 per Model type Index | N(7) | Integer | | 7 0 | 0 | 9999999 | | | | | Verify | Back A | Assigned | | New LD-FE-CA-BR118 | Required if Model Year >=2012 |
| (New) Type GHG Production Units CA-94 EPA Calculated Baseline (New) Model Type City FE Value | sales from the subconfiguration sales production units entries. Verify calculated intermediate calculation. | | TRUE | 1 per Model type Index | N(7,4) | Decimal | | 7 4 | 0 | 999.9999 | | | | | Verily | End Back / | Assigned | | | |
| 4 decimal CA-95 EPA Calculated Baseline (New) Model Type Highway FE | Verify calculated intermediate calculation. | | TRUE | 1 per Model type Index | N(7,4) | Decimal | | 7 4 | 0 | 999.9999 | | | | | Verify | Back A | Assigned | | | |
| Value 4 decimal CA-96 EPA Calculated Baseline | Verify calculated intermediate calculation. | | TRUE | 1 per Model type Index | N(7,4) | Decimal | | 7 4 | 0 | 999.9999 | | | | | Verily | Back A | Assigned | | | |
| (New) Model Type Combined Fl Value 4 decimal | Verify calculated intermediate calculation | | TRUE | 1 per Model two Index | N(4.1) | Decimal | | 4 1 | 0 | 999.9 | | | | | Verity | | Assigned | | | |
| (New) Model Type Combined FI Value 1 decimal | | | | | | | | | | | | | | | | Back / | | | | |
| CA-98 EPA Calculated Final (New) Model Type City FE Valu 4 decimal | versy datculated intermediate calculation. | | INUE | r per model type Index | N(7,4) | Decimal | | 7 4 | 0 | 9999.tet | | | | | verity | Back A | signed | | | |

| | Orange = Changes Due T | 0 | | Blue = Misc | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--|---|-------------------------------|---------------|--|-----------------------------|----------------|--------------|---------------------|-------------------------------------|-----------------|----------------------|---------------------------|----------------|----------------------------|--|------------|--------------|-----------------------------------|----------------------------------|--------------------------------|
| Pink = TBD | New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Certification Changes | | | | | | _ | | | | | _ | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | Ba Ero ak at- Er End d | | |
| EPA Data | | | | | | | | Data Turce | Mo | | Total Eraction | | | | | | | | Colectio | | | |
| CAFE Infor | Long Name mation: Uniquely identifie | Description ed by MrCode + ModelYear + CAFE Compliance Catego Verify calculated intermediate calculation | Parent's Name Jory | XML Tag | | Multiplicity 1 per Model type Index | Basic Data Type | Description | Length Le | ngth. Pattern | Total, Fraction Digits al Digits | Min Value | Max Value | Allowed Values Indu | ustry Proc | ess Example | (T Notes/Questions | Originator | n Point | Collection dati dat Type on on | Applicable Business Rules | English validation rules |
| (Naw) | Model Type Highway FE Value 4 decimal | Verify calculated intermediate calculation. | | | TRUE | 1 per Model type Index | N(7,4) | Decimal | | | 7 4 | 0 | 999.9999 | | | | | Verify | Back End | Assigned | | |
| CA-100 (New) | EPA Calculated Final Model Type Combined FE Value 4 decimal | Verify calculated intermediate calculation. | | | TRUE | 1 per Model type Index | N(7,4) | Decimal | | | 7 4 | 0 | 999.9999 | | | | | Verify | Back End | Assigned | | |
| CA-101 (New) | EPA Calculated Final Model Type Combined FE Value 1 decimal | Verify calculated intermediate calculation. | | | TRUE | 1 per Model type Index | N(4,1) | Decimal | | | 4 1 | 0 | 999.9 | | | | | Verify | Back End | Assigned | | |
| CA-102 (New) | Value 1 decimal EPA Calculated Model Type FE Production Units | Verify calculated intermediate calculation. Based on | , | | TRUE | 1 per Model type Index | N(7) | Integer | | - | 7 0 | 0 | 9999999 | | | | | Verify | Back | Assigned | | |
| , | Additional CAFE Base Lev | units entries. vel Info not included in Model Type Indexes (CA-25) (M | luitiple Base Levels may exi | dst within a Mo | odel Type) | Base Level is defined a | as a "unique combin | nation of Basi | c Engine, Tr | ansmission | Class and Inertia | Weight Class*.(| ref: 40 CFR 600.002) | (For IT: means a unique r | combinatio | n of BasicEngineIndex, Tra | nsmissionClassIndex and Inertia Weight) | | _ | | | |
| CA-25.5 | Base Level Index | Assigned by Verify for each base level (i.e. inertia weight class) created by the manufacturer. | Lutiple Base Levels may exit FuelEconomyCAFES.ubm Ission/FuelEconomyCAF EDetails/CalculationDetail | n BaseLevelInde xNumber | le TRUE | n (1 for each base level within a Model Type for this CAFE.) | N(2) | Integer | | | | 1 | 99 | D | ght FEC | AFE | Assigned by Verify as a sequential incrementer for each base level (i.e. inertia weight class) entered by the mfr. Data elements GL-110 through GL-116 make | Verify | Front End | XML | | |
| CA/25.6 | Inertia Weight Class | Inertia Weight Class (ref: 40 CFR 600.002-08); means | s/BaseLevelDetails | i loedia///eiobtC | C TRUE | 1 n (1 for each base | N(5) | Integer | | | | 0 | 99999 | | nhr FF C | AFE | this a repeating dataset. More must order this so ERA knows which | Mfr | Front | XMI | | |
| | | the class, which is a group of test weights, into which a vehicle is grouped based on is loaded vehicle weight in accordance with the provisions of 40 CFR 86. | ission/FuelEconomyCAF EDetails/Calculation/Detail s/BaseLevelDetails | InertiaWeightC lassNumber | | level within a Model Type for this CAFE.) | | | | | | | | D | ght FEC uty | | configuration and subconfiguration for which they are adding new tests for CAFE purposes. | | End | XML | LD-FE-CA-BR023 | |
| | | | a date contraint | | | | | | | | | | | | | | GL-110 | | | | | |
| Verily-Calc CA-174 (New) | EPA Calculated Baseline Base Level City GHG | Intermediate Calculations) Verify calculated intermediate calculation. | | | FALSE | 1 per Base Level Index | N(5,1) | Decimal | | | 5 1 | 0 | 9999.9 | | - | | | Verify | Back End | Assigned | New LD-FE-CA-BR155 | Required if Model Year >=2012 |
| | Value 1 decimal | Verific entrolete d'historie d'historie entroletion | | | - | f Dens Laural Index | N(5.1) | Destruct | | | | | | | | | | | Bash | And made | New LD-FE-CA-BR119 | Required if Model Year >= 2012 |
| (Naw) | EPA Calculated Baseline Base Level Highway GHG Value 1 decimal | i | | | TALOE | - per case Lever index | (a,a, i) | ocernal | | | | | | | | | | y | End | | Core-CARE 19 | |
| CA-176 (New) | EPA Calculated Baseline Base Level Combined | Verify calculated intermediate calculation. | | | FALSE | 1 per Base Level Index | N(5,1) | Decimal | | | 5 1 | 0 | 9999.9 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR120 | Required if Model Year >=2012 |
| | Base Level Combined GHG Value 1 decimal | Made adapted bioms | | | | 1 D | | | | | | | | | | | | Mart | | | New 10 | |
| CA-177 (Naw) | EPA Calculated Final Base Level City GHG Value 1 decimal | e versy calculated intermediate calculation. | | | FALSE | 1 per Base Level Index | N(5,1) | Decimal | | | 5 1 | 0 | 9999.9 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR121 | Required if Model Year >=2012 |
| CA-178 (New) | EPA Calculated Final Base Level Highway GHG Value 1 decimal | e Verify calculated intermediate calculation. e | | | FALSE | 1 per Base Level Index | N(5,1) | Decimal | | | 5 1 | 0 | 9999.9 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR122 | Required if Model Year >=2012 |
| CA-179 (New) | EPA Calculated Final Base Level Combined GHG | e Verify calculated intermediate calculation. | | | FALSE | 1 per Base Level Index | N(5,1) | Decimal | | | 5 1 | 0 | 9999.9 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR123 | Required if Model Year >=2012 |
| CA-180 (New) | Value 1 decimal EPA Calculated Base Level GHG Production | Verify calculated intermediate calculation. Based or sales from the subconfiguration sales production | 1 | | FALSE | 1 per Base Level Index | N(7) | Integer | | | 7 0 | 0 | 9999999 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR124 | Required if Model Year >=2012 |
| CA-103 | Units EPA Calculated Baseline Base Level City FE Value | units entries. Verify calculated intermediate calculation. | | | TRUE | 1 per Base Level Index | N(7,4) | Decimal | | | 7 4 | 0 | 999.9999 | | | | | Verify | Back | Assigned | | |
| CA-104 | 4 decimal EPA Calculated Baseline | Verify calculated intermediate calculation. | | | TRUE | 1 per Base Level Index | N(7,4) | Decimal | | | 7 4 | 0 | 999.9999 | | | | | Verify | Back | Assigned | | |
| (Naw) | Base Level Highway FE Value 4 decimal | | | | | | | | | | | | | | | | | | End | | | |
| CA-105 (Naw) | EPA Calculated Baseline Base Level Combined FE | Verify calculated intermediate calculation. | | | TRUE | 1 per Base Level Index | N(7,4) | Decimal | | | 7 4 | 0 | 999.9999 | | | | | Verify | Back End | Assigned | | |
| CA-105 | Value 4 decimal EPA Calculated Final Base | e Verify calculated intermediate calculation. | | | TRUE | 1 per Base Level Index | N(7,4) | Decimal | | | 7 4 | 0 | 999.9999 | | | | | Verify | Back | Assigned | | |
| (New) CA-107 | Level City FE Value 4 decimal EPA Calculated Final Base | e Verify calculated intermediate calculation | | | TRUE | 1 per Base Level Index | N(7,4) | Denimat | | | 7 4 | 0 | 999.9999 | | | | | Verify | End Back | Assigned | | |
| (New) | Level Highway FE Value 4 decimal EPA Calculated Final Base | | | | | 1 per Base Level Index | N(7.4) | | | | | | 999,9999 | | | | | | End | | | |
| CA-108 (New) | EPA Calculated Final Base Level Combined FE Value 4 decimal | e versy calculated intermediate calculation. | | | TRUE | r per Base Level Index | N(7,4) | Decimal | | | 1 | 0 | 9999.9899 | | | | | verify | End | resigned | | |
| CA-109 (New) | EPA Calculated Base Level FE Production Units | Verify calculated intermediate calculation. Based on sales from the subconfiguration sales production units entries. | | | TRUE | 1 per Base Level Index | N(7) | Integer | | | 7 0 | 0 | 9999999 | | | | | Verify | Back End | Assigned | | |
| CA-26 | Configuration Info (Multiple Configuration Index | le Configurations may exist within a Base Level) - unique Enter the new configuration index number assigned by the manufacturer that has not already been entered in FE Label to identify each configuration within a Base | ue combination of Engine (FuelEconomyCAFESubm | Code, Axle Rat | tio and Trans | mission Configuration w 1n (1 for each Configuration within each Base Level within a Madel Trank | vithin a Base Level N(3) | Integer | | | 3 0 | 1 | 999 | Ui Ui | ght FEC | AFE | | Mfr | Front | XML | | |
| | | | | ndexNumber | ſ | Configuration within each Base Level within a Model Type) | 1 | | | | | | | D | uty | | | | End | | LD-FE-CA-BR024 LD-FE-CA-BR028 | |
| | | Code, Axle Ratio and Transmission Configuration. Manufacturers should assign the code as specified | gurationDetails | | | | | | | | | | | | | | | | | | | |
| | | below: 001-499: A portion of this configuration is represented | | | | | | | | | | | | | | | | | | | | |
| | | by a test vehicle. 501-999: No portion of this configuration is represented by a test vehicle. | 1 | | | | | | | | | | | | | | | | | | | |
| | | (Formerly "DVC" (Data vehicle code) in CFEIS.) | | | | | | | | | | | | | | | | | | | | |
| CA-27 | Transmission Configuration Code | Enter the Transmission Configuration Code assigned b the manufacturer for this Configuration. | y FuelEconomyCAFESubm ission/FuelEconomyCAF | Transmission Configuration | n FALSE | 1n (1 for each Configuration within each | A(2) | String | 1 | 2 [A-20- 9](1,2) | | | | Lip | ght FEC | AFE | | Mfr | Front End | XML | LD-FE-CA-BR026 | + |
| | | 1 The Transmission Configuration Code is used to | EDetails/CalculationDetail Receil and Details Confi | Coniguration Code | | Base Level within a Model Type) | | | | | | | | | 1 | | | | | | LD-FE-CA-BR028 | |
| | | distinguish a unique transmission configuration within a Transmission Class. Manufacturers may assign the code alphanumerically up to two characters (e.g. '1', 'A', '12', '12', '28', etc.). | g a more services | | | | | | | | | | | | | | | | | | | |
| | | 02', 'A2', '3B', etc.). 2. For a definition of Transmission Configuration, see | | | | | | | | | | | | | | | | | | | | |
| | | 40 CFR 600.002-08 and A/C 83A. | đ | | | | | | | | | | | | | | | | | | | |
| | | This data element replaces all of the CFEIS "FR" and "FL" data elements and is functionally equivalent to the CFEIS "Transmission Configuration Link" data element | L | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| CA-28 | Engine Code | Enter the Engine Code for this Configuration which is used to distinguish a unique combination of displacement, fuel delivery system, calibration, emissio control, within a Engine system combination (ref: 40 CFR 600.002-08). | FuelEconomyCAFESubm ission/FuelEconomyCAF n EDetails/CalculationDetail | EngineCodeT ext | FALSE | 1n (1 for each Configuration within each Base Level within a | A(14) | String | 1 1 | 14 | | | | D | ght FEC uty | AFE | | Mfr | Front End | XML | LD-FE-CA-BR026 LD-FE-CA-BR028 | |
| | | | | | | Model Type) | | | | | | | | | | | | | | | | |
| CA-29 | Axle Ratio | Enter the axle ratio for this Configuration. | FuelEconomyCAFESubm Ission/FuelEconomyCAF | e e | u FALSE | 1n (1 for each Configuration within each | N(3,2) | Decimal | | | 3 2 | 0.01 | 9.99 | Lig Di | ght FEC | AFE | | Mfr | Front End | XML | LD-FE-CA-BR026 LD-FE-CA-BR028 | 1 |
| | | | Ission/FuelEconom/CAF EDetails/CaculationDetail s/BaseLevelDetails/Confi gurationDetails | | | Configuration within each Base Level within a Model Type) | | | | | | | | | | | | | | | | |
| Verify-Calc | ulated Configuration Leve EPA Calculated Baseline | el Fields (intermediate Calculations) Verify calculated intermediate calculation. | | | FALSE | 1 per Configuration | N(5,1) | Decimal | | | 5 1 | 0 | 9999.9 | | - | | | Verify | Back | Assigned | New LD-FE-CA-BR125 | Required If Model Year >=2012 |
| (New) | Value 1 decimal | | | | | 1 per Configuration Index | | | | | | | | | | | | Verify | End | | | |
| CA-182 (New) | EPA Calculated Baseline Configuration Highway GHG Value 1 decimal | Verify calculated intermediate calculation. | | | FALSE | 1 per Configuration Index | N(5,1) | Decimal | | | 5 1 | 0 | 9999.9 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR126 | Required if Model Year >=2012 |
| CA-183 | EPA Calculated Baseline Configuration Combined GHG Value 1 decimal | Verify calculated intermediate calculation. | | | FALSE | 1 per Configuration Index | N(5,1) | Decimal | | | 5 1 | 0 | 9999.9 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR127 | Required if Model Year >=2012 |
| ,, | GHG Value 1 decimal | | | | | index. | | | | | | | | | | | | | 2.10 | | | |

| ffice of Transportation and Air Qualit 6/4/201 | |
|---|--|
|---|--|

| Orange = Changes Due To Pink = New Technologies (Multi Fuels, PHEV) | o Green = Label/CAFE/GHG Changes | Red = Misc Text E | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | | |
|---|--|--|--|---------------|--|--------------------|---------------|----------------------------|--------------|---------------|-----------|-----------|--|-----------------|-----------------|---|------------|---------------|--|----------------------------------|--|
| | | | | | | | | | | | | | | | | | | | Ba Ero. ok | | |
| EPA Data | | | | | | | Data Tura | Min May | Tot | tal. Fraction | | | | | | | | Colectio | Ba Eto ck ck En End d. Vali Vali Collection dati dati | | |
| CAFE Information: Uniquely identifie | Description ad by MrCode + ModelYear + CAFE Compliance Catego | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Description | Min. Max. Length Length | Pattern Digi | its al Digits | Min Value | Max Value | Allowed Values | Industry | Process Example | IT Notes/Questions | Originator | n Point | Type on on | Appricable Business Rules | English validation rules |
| CA-184 EPA Calculated Final (New) Configuration City GHG | Verify calculated intermediate calculation. | | | FALSE | 1 per Configuration Index | N(5,1) | Decimal | | 5 | 1 | 0 | 9999.9 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR128 | Required if Model Year >=2012 |
| CA-185 EPA Calculated Final | Verify calculated intermediate calculation. | | | FALSE | 1 per Configuration Index | N(5,1) | Decimal | | 5 | 1 | 0 | 9999.9 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR129 | Required if Model Year >=2012 |
| (New) Configuration Highway GHG Value 1 decimal | | | | | | | | | | | | | | | | | | | | | |
| CA-186 EPA Calculated Final (New) Configuration Combined GHG Value 1 decimal | Verify calculated intermediate calculation. | | | FALSE | 1 per Configuration Index | N(5,1) | Decimal | | 5 | | • | 9999.9 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR130 | Required if Model Year >=2012 |
| | Vertile calculated intermediate calculation. Based on | | _ | FALSE | 1 per Configuration | N(7) | Integer | | | | 0 | 9999999 | | | | | Marthy | Back | Assigned | | |
| CA-187 EPA Calculated (New) Configuration GHG Production Units | production units from the subconfiguration production units entries. | | | PALOE | 1 per Configuration Index | N(7) | integer | | 1 | | Ŭ | 333333 | | | | | veray | Back End | Assigned | | |
| CA-110 EPA Calculated Baseline (New) Configuration City FE | Verify calculated intermediate calculation. | | | TRUE | 1 per Configuration Index | N(7,4) | Decimal | | 7 | 4 | 0 | 999.9999 | | | | | Verify | Back End | Assigned | | |
| Value 4 decimal CA-111 EPA Calculated Baseline | Verify calculated intermediate calculation. | | | TRUE | 1 per Configuration Index | N(7,4) | Decimal | | 7 | 4 | 0 | 999.9999 | | | | | Verify | Back End | Assigned | | |
| (New) Configuration Highway FE Value 4 decimal | E | | | | Index | | | | | | | | | | | | | End | | | |
| CA-112 EPA Calculated Baseline (New) Configuration Combined FE Value 4 decimal | Verify calculated intermediate calculation. | | - | TRUE | 1 per Configuration Index | N(7,4) | Decimal | | 7 | 4 | 0 | 999.9999 | | | | | Verify | Back End | Assigned | | |
| FE Value 4 decimal | | | | | maex | | | | | | | | | | | | | Ena | | | |
| CA-113 EPA Calculated Final (New) Configuration City FE | Verify calculated intermediate calculation. | | | TRUE | 1 per Configuration Index | N(7,4) | Decimal | | 7 | 4 | 0 | 999.9999 | | | | | Verify | Back End | Assigned | | |
| Value 4 decimal CA-114 EPA Calculated Final | Verify calculated intermediate calculation. | | | TRUE | 1 per Configuration Index | N(7,4) | Decimal | | 7 | 4 | 0 | 999.9999 | | | | | Verify | | Assigned | | |
| (New) Configuration Highway FE Value 4 decimal | | | | | Index | | | | | | | | | | | | | Back End | | | |
| CA-115 EPA Calculated Final (New) Configuration Combined | Verify calculated intermediate calculation. | | | TRUE | 1 per Configuration Index | N(7,4) | Decimal | | 7 | 1 | 0 | 999.9999 | | | | | Verify | Back End | Assigned | | |
| FE Value 4 decimal | Made astrological laterative | | | | 4 | | | | | | | | | | | | New | Bert | | | |
| CA-116 EPA Calculated (New) Configuration FE Production Units | Verify calculated intermediate calculation. Based on production units from the subconfiguration production units entries | | | TRUE | 1 per Configuration Index | N(7) | integer | | 7 | U | 0 | 9999999 | | | | | venity | Back End | Assigned | | |
| Subconfiguration Info (Mu CA-29.5 Subconfiguration Index | production turks entrues, tiple Subconfigurations may exist within a Configurati Enter the index number assigned by the manufacturer to dentify this subconfiguration that has not already been entered in FE Label within a configuration subconfiguration index is used to identify each subconfiguration within a configuration that contains a | ion Level) - unique con | mbination of ETW | and RLHP with | hin a configuration Leve | N(2) | Integer | | | | 1 | 22 | | Links | FE CAFE | | Mfr | Front | XML | LD-FE-CA-BR025 | |
| CH-LLS Dubcolligation index | identify this subconfiguration that has not already been entered in FE Label within a configuration. | EDetails/Calculation | CAF onIndexNuml Detail er | b | Subconfiguration within each Configuration within | 14(2) | maga | | - | | · | | | Duty | FE CAFE | | | Front End | AND A | LD-FE-CA-BR029 | |
| | Subconfiguration Index is used to identify each subconfiguration within a configuration that contains a | s/BaseLevelDetails/C gurationDetails/SubC | Confi Confi | | each Base Level within each Model Type) | | | | | | | | | | | | | | | | |
| | unique combination of equivalent test weight and road load horse power. | gurationDetails | | | | | | | | | | | | | | | | | | | |
| | Manufacturers should assign this code as specified below: | | | | | | | | | | | | | | | | | | | | |
| | 01-49: for a subconfiguration represented by a test | | | | | | | | | | | | | | | | | | | | |
| | vehicle. 51-99: for a subconfiguration not represented by a test vehicle. | | | | | | | | | | | | | | | | | | | | |
| | (Formerly "RLC" (Road Load Code) in CFEIS.) | | | | | | | | | | | | | | | | | | | | |
| CA-30 Total Road Load Horsepower | Enter the total road load horsepower at 50 mph (TRLHP50). | FuelEconomyCAFES ission/FuelEconomy | Subm RoadLoadHo | FALSE | 1n (1 for each Subcordiouration within | N(3,1) | Decimal | | 3 | 1 | 0 | 99.9 | | Light | FE CAFE | | Mfr | Front End | XML | LD-FE-CA-BR027 | |
| Horsepower | (TRDR-50). | EDetails/CalculationE s/BaseLevelDetails/C | Detail Confi | - | Subconfiguration within each Configuration within each Base Level within each Model Type) | | | | | | | | | Duty | | | | Ena | | LD-FE-CA-BR029 | |
| | | E Details/Calculation s/BaseLevelDetails/C gurationDetails/SubC gurationDetails | Confi | | each Model Type) | | | | | | | | | | | | | | | | |
| CA-31 Equivalent Test Weight | Enter the Equivalent Test Weight (ETW) within a specified Inertia Weight Class. | Configuration CAPEC | Color Cardon Tax | st FALSE | 1n (1 for each | N(5) | Enumeratio | | | | ٥ | 89999 | 1000, 1125, 1250, 1375, 1500, | Light | FE CAFE | | Mfr | Front End | XML | | Must be a vaild Equivalent Test Weight (ETW) within a specified Inertia Weight Class as- |
| (ETW) | specified Inertia Weight Class. | EDetails/Calculation s/BaseLevelDetails/ gurationDetails/SubC gurationDetails | CAF WeightValue Detail | 2 | Subconfiguration within each Configuration within each Base Level within each Model Type) | | n | | | | | | 1625, 1750, 1875, 2000, 2125, 2250, 2375, 2500, | Duty | | | | End | | LD-FE-CA-BR027 LD-FE-CA-BR029 | delined in paragraph 40 CFTC 05-130 |
| | | gurationDetails/SubC gurationDetails | Confi | | each Model Type) | | Integer | | | | | | 2625, 2750, 2875, 3000, 3125, 3250, 3375, 3500, | | | | | | | | |
| | | | | | | | | | | | | | 3625, 3750, 3875, 4000, 4250, 4500, 4750, | | | | | | | | |
| | | | | | | | | | | | | | 5000, 5250, 5500, 6000, 6500, 7000, 7500, 8000, 8500, 9000, 9500, 10000, 10500 | | | | | | | | |
| | | | | | | | | | | | | | 1000, 1125, 1220, 1375, 1500, 1525, 1500, 1525, 1730, 1575, 1500, 1525, 2730, 1275, 2250, 2375, 2500, 2552, 2730, 2275, 1500, 1325, 2370, 3375, 1550, 3455, 3376, 3375, 1550, 3455, 3376, 3375, 1550, 3500, 5200, 5500, 5000, 5500, 15000, 15500, 1500 | | | | | | | | |
| GA-33 Altitude Gode | Enter the altitude for which the vehicles within this subconfiguration are offered for sale. | FuelEconomyCAFE mission/FuelEconor | :Gub GaleAltitudeC imyC ada | 9 FALSE | tn (1 for each- Subconfiguration- | *(1) | Enumeratio | | | | | | A - All altitude L - Low altitude only | Light- Duty- | FE CAFE | | Mir | Front- End | ×ML | | |
| Delete | | AFEDotalls/Calculat etails/DaseLevelDet | tionD tella/ | | within each- Gonfiguration within- | | | | | | | | H = High altitude only | | | | | | | | |
| | | ConfigurationDotals bConfigurationDota | sile | | each Model Type) | | | | | | | | | | | | | | | | |
| Verify-Calculated Subconfiguration L CA-188 EPA Calculated Baseline | evel Fields (Intermediate Calculations) | | | FALSE | 1 per Subconfiguration | N(5,1) | Decimal | | | | 0 | 9999.9 | | | | | Marth | Bart | Assigned | New LD-FE-CA-BR131 | Required if Model Year >=2012 |
| (New) Subconfiguration City GHG Value 1 decimal | serve successive intermediate calcolation. | | | I ALSE | 1 per Subconfiguration Index | -4(0,1) | Cucima | | , | | · | 2299.9 | | | | | ay | Back End | | CONDRIGI | |
| CA-189 EPA Calculated Baseline | Verify calculated intermediate calculation. | | | FALSE | 1 per Subconfiguration | N(5,1) | Decimal | | 5 | 1 | 0 | 9999.9 | | | | | Verify | Back | Assigned | New LD-FE-CA-BR132 | Required if Model Year >=2012 |
| (New) Subconfiguration Highway GHG Value 1 decimal | У | | | | 1 per Subconfiguration Index | | | | | | | | | | | | | Back End | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| CA-190 EPA Calculated Final (New) Subconfiguration City | Verify calculated intermediate calculation. | | | FALSE | 1 per Subconfiguration Index | N(5,1) | Decimal | | 5 | 1 | 0 | 9999.9 | | | | | Verily | Back End | Assigned | New LD-FE-CA-BR133 | Required if Model Year >=2012 |
| GHG Value 1 decimal CA-191 EPA Calculated Final (New) Subconfiguration Highway | Verily calculated intermediate calculation. | | | FALSE | 1 per Subconfiguration Index | N(5,1) | Decimal | | 5 | 1 | 0 | 9999.9 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR134 | Required if Model Year >=2012 |
| (New) Subconfiguration Highway GHG Value 1 decimal | , | | | | I LOCK | | | | | | | | | | | | | anu | | | |
| CA-192 EPA Calculated (New) Subconfiguration GHG | Verify calculated intermediate calculation. Based on sales from the subconfiguration sales production | | | FALSE | 1 per Subconfiguration Index | N(7) | Integer | | 7 | 0 | 0 | 9999999 | | | | | Verify | Back End | Assigned | New LD-FE-CA-BR135 | Required if Model Year >=2012 |
| (New) Subconfiguration GHG Production Units CA-117 EPA Calculated Baseline (New) Subconfiguration City FE | units entries. Verify calculated intermediate calculation. | | | TRUE | 1 per Subconfiguration Index | N(7,4) | Decimal | | 7 | 4 | 0 | 999.9999 | | | | | | Back | Assigned | | |
| (New) Subconfiguration City FE Value 4 decimal | | | | | Index | | | | | | | | | | | | | End | | | |
| CA-118 EPA Calculated Baseline | Verify calculated intermediate calculation. | | | TRUE | 1 per Subconfiguration Index | N(7,4) | Decimal | | 7 | 4 | 0 | 999.9999 | | | | | Verify | Back End | Assigned | | |
| (New) Subconfiguration Highway FE Value 4 decimal | y | | | | index | | | | | | | | | | | | | End | | | |
| CA.119 EBA Calculated Baseline | Kerily calculated information calculation | | | TRUE | 1 per Subspelle uniter | N(7,4) | Decimal | | _ | | | 000 0000 | | | | Subconfiguration level combined from | Maghe | Bark | Assigned | | |
| (Now) Subconfiguration- Gombined FE Value 4 docimal | | | | | Index | | | | | | | | | | | economy is not defined in regulation- | Verity | End | | | |
| decimal | | | | | | | | | | | | | | | | | | | | | |
| CA-120 EPA Calculated Final (New) Subconfiguration City FE | Verify calculated intermediate calculation. | | | TRUE | 1 per Subconfiguration Index | N(7,4) | Decimal | | 7 | 4 | 0 | 999.9999 | | | | | Verify | Back End | Assigned | | |
| Value 4 decimal CA-121 EPA Calculated Final | Verity calculated intermediate calculation. | | | TRUE | 1 per Subconfiguration Index | N(7,4) | Decimal | | 7 | 4 | 0 | 999.9999 | | | | | Verify | Back End | Assigned | | |
| CA-120 EPA Calculated Final Subconfiguration City FE Value 4 decimal CA-121 EPA Calculated Final (New) Subconfiguration Highway FE Value 4 decimal | y | | | | Index | | | | | | | | | | | | | End | | | |
| CA-122 ERA Calculated Final | Verily calculated intermediate calculation. | | | TRUS | 1 per Subconfiguration Index | N(7,4) | Decimal | | 2 | 4 | ٥ | 999-9999 | | | | Subconfiguration level combined fuel- | Varity | Back. | Assigned | | |
| CA-122 EPA Calculated Final (New) Subconfiguration Combined FE Value 4 docimal | | | | | | | | | | | | | | | | Subconfiguration level combined fuel- oconomy is not defined in regulation- anywhere, so it was deleted | | | | | |
| decimal CA-123 EPA Calculated (New) Subconfiguration FE Production Units | Verify calculated intermediate calculation. Based on sales from the subconfiguration sales production units entries. | | | TRUE | 1 per Subconfiguration Index | N(7) | Integer | | 7 | 0 | 0 | 9999999 | | | | | Verify | Back End | Assigned | | |
| Production Units Subconfiguration production units in | units entries. formation - Within a subconfiguration, manufacturers | must report productio | on units for each co | | Carline (MfrCode, DivCo | de, CarlineCode) a | nd testgroup. | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

| Pink = TBD | Orange = Changes Due T New Technologies (Mult Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | | | | |
|------------------------------|---|--|---|---|----------|--|-----------------|--------------------------------|----------------------------------|-------------------------------------|--|-----------|---|---------------|---------|---------|--|--------------|--------------|----------------------------|--|--|
| 100 | 1000,11024 | Order in Experiorie Elonio Grangez | | Changes | | | | | | | | | | | | | | | | Em | Ba | |
| EPA Da | | | | | | | | | | | | | | | | | | | | | ck En d Val | |
| element number CAFE In | Long Name ormation: Uniquely identifi | Description d by MrCode + ModelYear + CAFE Compliance Catego Enter the available manufactures code for this | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type. I Description Le | Min. <u>Max</u> angth Length. | Pattern Digit | al. Fraction ts al Digits Min Value | Max Value | Allowed Values | Industry | Process | Example | IT Notes/Questions | Driginator (| Point | Collection dati Type on | dati on Applicable Business Rules | English validation rules |
| CA-124 (New) | Manufacturer Code | Enter the applicable manufacturer code for this subconfiguration sales information. | FuelEconomyCAFESubn ission/FuelEconomyCAF EDetails/CalculationDetai | n EPAManufact urerCode | TRUE | (1 for each Subconfiguration production units row | A(3) | String | 3 3 | (A-20- 9](3) | | | | | | | | Mfr | Front End | XML | | |
| | | | s/BaseLevelDetails/Confl gurationDetails/SubConfl gurationDetails/SubConfl | | | within each Subconfiguration within each | | | | | | | | | | | | | | | | |
| | | | gurationSalesDetails | | | Subconfiguration within each Configuration within each Base Level within each Model Type) | | | | | | | | | | | | | | | | |
| CA-125 | Division Code | Enter the applicable manufacturer code for this | FuelEconomyCAFESubn Ission/FuelEconomyCAF | n Manufacturer | TRUE | (1 for each Subconfiguration | N(2) | Integer | 1 2 | | 1 | 99 | | | | | | Mr | Front | XML | | |
| (New) | | subconfiguration sales information. | Ission/FuelEconomyCAF EDetails/CalculationDetai s/BaseLevelDetails/Confl | DivisionCode | | Subconfiguration production units row within each | | | | | | | | | | | | | End | | | |
| | | | gurationDetails/SubConfli gurationDetails/SubConfli gurationSalesDetails | | | Subconfiguration within each Configuration within each Base Level within each Model Type) | | | | | | | | | | | | | | | | |
| | | | | | | each Base Level within each Model Type) | | | | | | | | | | | | | | | | |
| CA-126 (New) | Carline Code | Enter the applicable manufacturer code for this subconfiguration sales information. | FuelEconomyCAFESub mission/FuelEconomyC | CarlineCode | TRUE | (1 for each Subconfiguration | N(3) | Integer | 1 3 | | 1 | 999 | | | | | | Mr | Front End | XML | | |
| | | | AFEDetails/CalculationE etails/BaseLevelDetails/ ConfigurationDetails/Su | D / | | within each Subconfiguration | | | | | | | | | | | | | | | | |
| | | | bConfigurationDetails/S ubConfigurationSalesD tails | 6 | | production units row within each Subconfiguration within each Configuration within each Base Level within each Model Type) | | | | | | | | | | | | | | | | |
| CA-34 | Test Group | Enter the applicable test group name for this | FueFconomyCAFESthe | n TestGroupNa | TRUE | each Model Type) | A(12) | String | 12 12 | A-HJ- | | | | Light | FF CAFE | | TG-2, GL-126 | Mfr | Front | XML | | TestGroup must have already been certified. |
| | (This was moved from th subconfiguration level) | Enter the applicable test group name for this subconfiguration. | FuelEconomyCAFESubn ission/FuelEconomyCAF EDetails/CalculationDetai s/Basel evelDetails/Confl | me | | Subconfiguration within each | | | | A-HJ- NPR-TV- Y1- JJ[1]]A- | | | | Light Duty | | | | | End | | LD-FE-CA-BR009 | |
| | subcomiguration levely | | gurationDetails/SubConfli gurationDetails/SubConfli gurationDetails/SubConfli | | | each Base Lovel within each Model Type) (1 for each | | | | 20- 0](4,11)(\\.][A- 20- | | | | | | | | | | | | |
| | | | | | | Subconfiguration | | | | 20- 9[(1,6])? | | | | | | | | | | | | |
| | | | | | | production units row within each Subconfiguration within each | | | | | | | | | | | | | | | | |
| | | | | | | Subconfiguration within each Configuration within each Base Level within each Model Type) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 193 | Manufacturer Subconfiguration Final Model Year GHG Production Units | Enter the manufacturer-calculated final model year fuel economy production units for this carline and testgroup. This will be used in the GHG calculations | - | | FALSE | (1 for each Subconfiguration production units row | N(6) | integer | | | | 202020 | | Duty | FE CAFE | | Note to CSC: The production units that apply to fuel economy (CAFE) may be different than the production units that | | End | XML | New LD-FE-CA-BR136 | Required if Model Tear >=2012 |
| | Production Units | | | | | within each Subconfiguration within each | | | | | | | | | | | apply to the GHG/CREE calculation. LE. emergency vehicles, sales in U.S. Territories, etc. The GHG sales will be added in Phase 2. | | | | | |
| | | | | | | Subconfiguration within each Configuration within each Base Level within each Model Type) | | | | | | | | | | | added in Phase 2. | | | | | |
| CA-32 | Manufacturer | Enter the manufacturer-calculated final model year fuel economy production units for this carline and testgroup. In This will be used in the CAFE calculations. | FuelEconomyCAFESubn | n SubConfigura | TRUE | t un (1 for each- | N(6) | Integer | | | 1 | 999999 | | Light Duty | FE CAFE | | Note to CSC: The production units that | Mfr | Front | XML | LD-FE-CA-BR019 | |
| | Manufacturer Subconfiguration Final Model Year FE Productio Units | | FuelEconomyCAFESubn ission/FuelEconomyCAF EDetails/Calculation/Detai s/BaseLevelDetails/Confl guration/Details/SubConfl | IYearProducti onNumber | | within each- Configuration within- | | | | | | | | Duy | | | Note to CSC: The production units that apply to fuel economy (CAFE) may be different than the production units that apply to the GHG/CREE calculation. LE. emergency vehicles, sales in U.S. Territories, edt. The GHG sales will be added in Phase 2. | | Ling | | LOI C-ONDIOIS | |
| | (This was moved from th subconfiguration level an | e d | gurationDetails/SubConfli gurationSalesDetails | | | each Base Level within each Model Type) (1 for each Subconfiguration | | | | | | | | | | | Territories, etc. The GHG sales will be added in Phase 2. | | | | | |
| | (This was moved from th subconfiguration level an renamed to incl "FE" to distinguish it from GHG production units (will be added in Phase 2)) | | | | | production units row within each | | | | | | | | | | | | | | | | |
| | added in Phase 2)) | | | | | Subconfiguration production units row within each Subconfiguration within each Configuration within each Base Level within each Model Type) | | | | | | | | | | | | | | | | |
| | | | | | | each Base Level within each Model Type) | | | | | | | | | | | | | | | | |
| Test Ve | icle Info (Multiple vehicles | with multiple tests may exist within a sub-configuration Enter an applicable Test Number for this CAFE that was previous) assigned by Vertly in Test Information. Test Number must be entered within Subordinguration Index (CA-28) is 1 to 48 and Configuration Index (CA-28) is 1 to 490 within Indexton that the subconfiguration to represented by a tested vehicle. | | n TestN mherid | FALSE | A a (Alexandr Tart | A(12) | String | | | | | | Links. | FF OAFF | | Ti-2, GL-127 | Mfr | - | XMI | | Test Number must exist in Verify Test Info |
| CA-35 | Test Number | Enter an applicable 1 est Number for this CAFE that was previously assigned by Verify in Test Information. Test Number must be entered when Subconfiguration Index | EDetails/CalculationDetail | n lestNumberid entifier | FALSE | 1n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type) | A(12) | ating | | | | | | Light Duty | FE CAFE | | 114, 66-127 | MIT | Front End | XML | LD-FE-CA-BR010 LD-FE-CA-BR011a LD-FE-CA-BR011b | I est Number must exert in Vehry I est Into. Test Number must be present when Subcortiguration Index (CA-29) is 1 to 49 and Configuration Index (CA-26) is 1 to 499 which indicates that the subconfiguration is represented by a tosted vehicle. |
| | | (CA-29) IS 1 to 49 and Congutation Index (CA-26) IS 1 to 499 which indicates that the subconfiguration is represented by a tested vehicle. | gurationDetails/SubConfi gurationDetails/TestVehi | i i | | each Base Level within each Model Type) | | | | | | | | | | | | | | | LD-FE-CA-BR011c | Configuration index (L4-26) is 1 to 449 which indicates that the subconfiguration is represented by a tasted vehicle. Test Category for this Test Number must = "FTP", USD6, "SC03", 'COLD' or 'HWY'. |
| | | | leDetails | | | | | | | | | | | | | | | | | | LD-FE-CA-BR012a LD-FE-CA-BR012b LD-FE-CA-BR020 LD-FE-CA-BR030 | Test Category for this Test Number must = "FTP", 'US06', 'SC03', 'COLD' or 'HWY'. |
| CA-36 | Vehicle ID | A unique alphanumeric identifier assigned by the manufacturer to each test vehicle | | | FALSE | 1n (1 for each Test within each | A(20) | String | 1 20 | | | | | Light Duty | FE CAFE | | Find Vehicle ID' (TI-4) via Test Number (GL-127). | Verify | Back End | Pre- existing data | LD-FE-CA-BR030 | |
| | | | | | | 1n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within | | | | | | | | | | | TI-4> VI-3 | | | data | | |
| | | | | | | each model type) | | | | | | | | | | | | | | | | |
| CA-37 | Vehicle Configuration Number | A number previously assigned to specify a unique test vehicle configuration. | | | FALSE | 1n (1 for each Test within each Subconfiguration within | N(2) | Integer | | | 0 | 99 | | Duty | FE CAFE | | Find Vehicle Configuration Number' (TI-5) via Test Number (GL-127). | Verify | Back End | Pre- existing data | | |
| | | | | | | 1 (1 for each 1 est within each Subconfiguration within each Configuration within each Base Level within each Model Type) | | | | | | | | | | | TI-5 → VI-4 | | | | | |
| C4-39 | Analytically-Derived | The fuel economy values for this vehicle that account of | | | | | A(1) | Enumeratio | | | | | N=No | Lintz | FE CAFE | | | Verify | Back | Pre- | | |
| | Analytically-Derived FE/CREE Indicator | The fuel economy values for this vehicle that represent a sub-configuration were generated by an EPA-approved analytical/entwerd method, in lieu of testing (ref: 40 CPR 600.006(e) and CCD-04-06). The number of ADFE must be no more than 20% of the subconfigurations tested in CAFE (ref: CD-04-06). | | | | 1n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type) | | n | | | | | N=No Y=Yes | Light Duty | - JANE | | | · y | Back End | Pre- existing data | | |
| | | ADFE must be no more than 20% of the subconfigurations tested in CAFE (ref: CD-04-06). | | | | each Base Level within each Model Type) | | | | | | | | | | | | | | | | |
| CA-39 | Data Substitution Indicate | Finter the applicable Data Substitution Indicator for this | FuelEconomyCAFESubn ission/FuelEconomyCAF | n DataSubstituti orindicator | FALSE | 1n (1 for each Test | A(1) | Enumeratio | + | | + + | | N = No Y = Yes | Light Duty | FE CAFE | | | Mfr | Front | XML | | |
| | | Hint. | EDetails/CalculationDeta s/BaseLeveIDetails/Confl | 48 5 | | 1n (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type) | | n | | | | | T = TOS | Duty | | | | | end | | | |
| | | | gurationDetails/SubConfi gurationDetails/TestVehin leDetails | | | each Model Type) | | | | | | | | | | | | | | | | |
| CA-40 | Averaging Method | Enter the Averaging Method to be used if this Test Number is part of an averaging group (i.e., subconfiguration explands with a multi-mode manufacture explands and a multi-mode manufacture of this indicator Light), where: N = No averaging (Sum(n+15 n (FET(i))*WT(i))) H = Harmonic averaging (Sum(n+15 n) (FET(i))*WT(i))) | FuelEconomyCAFESubn Ission/FuelEconomyCAF | n AveragingMet hodIdentifier | FALSE | 1n (1 for each Test within each | A(1) | Enumeratio n | | + | | | N = No averaging S = Simple averaging (Sum(i=1 to | Light Duty | FE CAFE | | | Mfr | Front End | XML | New LD-FE-CA-BR137 | If Model Year >= 2011 then "\$" (Simple Averaging) is not allowed. |
| | | succentiguration equipped with a multi-mode transmission or Shift Indicator Light), where: N = No averaging | s/BaseLevelDetails/Confi gurationDetails/SubConfi | | | 1 (1 for each lest within each Subconfiguration within each Configuration within each Base Level within each Model Type) | | | | | | | N = No averaging S = Simple averaging (Sum[i=1 to n) (FET(i) * WT(i))) H = Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i))) | | | | | | | | | |
| | | IS = Simple averaging (Sum(i=1 to ri) (FET(i) * WT(i))) H = Harmonic averaging (1/(Sum(i=1 to ri) (FET(i) / WT(i))) | gurationDetails/TestVehi leDetails | c | | each Model Type) | | | | | | | | | | | | | | | | |
| | | Note: WT(i) = Averaging Weighting Factor (GL-135) of the MPG value, specified by the manufacturer based on EPA's Guidance (ref: CCD-01-25R, CD-87-01 and A/C 83A); and, FET(i) = MPG of test. | | | | | | | | | | | | | | | | | | | | |
| | | EMA's Guidance (ref: CCD-01-25R, CD-87-01 and A/C 83A); and, FET(i) = MPG of test. | | | | | | | | | | | | | | | | | | | | |
| | 1 | | 1 | | | | | 1 | | | | 1 | 1 | 1 | 1 | | | | | | | |

| Pink TBC | Orange = Changes Due To New Technologies (Multi Fuels, PHEV) | Green = Label/CAFE/GHG Changes | Red = Misc Text Edits | Blue = Misc Certification Changes | | | | | | | | | | | | | | | |
|-----------------------------------|--|---|--|---|--|-------------------------|---|---|-----------|-----------|----------------|--|---------|--------------------|--------------------------|--------------------------------------|-----------------------------------|---|--|
| EPA D elemen CAFEI CA-41 | ormation: Uniquely identifie | Cescritotoo Star MinCode = ModelYear = CAFE Compliance Catago Enter Rie Averaging Group Induced star group by the te ame test processing the met ob is averaged | Parent's Name cy FueEconomyCAFESubm issionFueEconomyCAF Eberaite/CataforDetait | upIndicator | Multiplicity 1 (1 for each Test within each Subconfiguration within | Basic Data Type A(1) | Data Type, Min, Max Description Length Lengt String 1 1 | h. Pattern Digits al Digits (A-20-9) | Min Value | Max Value | Allowed Values | Industry Process Ught FE CAFE Duty | Example | IT Notes/Durations | <u>Originator</u> Mfr | Collectio n Point Front End | Collection dati Type on XML | aa ke G d d aa Applicable Rusiness Rules D LD-FE-CA-BR013 | English websites nates Mar not be orthough & Asserging Mathod (CA-40) = Yr. |
| | | together. | s/BaseLevelDetails/Confi gurationDetails/SubConfi gurationDetails/TestVehic leDetails | | each Corfiguration within each Base Level within each Model Type) | | | | | | | | | | | | | | |
| CA-42 | Factor | Enter the avenaging weighting factor for this vehicle mpg if equipped with either Shift Indicator Light (SIL) or multi- mode transmission. (Formerly Test Group Weighting in CFEIS). | FuelEconomyCAFESubm ission/FuelEconomyCAF EDetails/CalculationDotail s/BaseLevelDetails/Confi gurationDetails/SubConfi gurationDetails/TestVehic leDetails | ghtingFactorV alue | 1n (1 for each Test within each Subcordiguration within each Cordiguration within each Base Level within each Model Type) | N(3,2) | Decimal | 3 2 | 0.01 | 0.99 | | Light FE CAFE Duty | | | Mfr | Front End | XML | LD-FE-CA-BR014 | Must be present if Averaging Method (CA-40) -> Y. |

| EPA Data Element | | | | | | | Basic Data | Data Type | <u>Min</u> | Max | | Total | Fractional | | Max | | | | | | Collection | | |
|------------------------|---|---|---|------------------------------|----------|--------------|---------------|---------------------------|------------|--------|--|--------|------------|-------|--------|---|-------------|---------|---|--------------|------------|-------------|---|
| Number IUVP Vehic | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Type | Description | Length | Length | Pattern | Digits | Digits | Value | Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Point | <u>Type</u> | Applicable Business Rules |
| IV-1 | Process Code | Select the desired process code for the current submission. | InUseVerificationProgra mSubmissionVehicleInfo mationDetails or InUseVerificationProgra mSubmissionVehicleDei eteReportDetails | | TRUE | | A(1) | Enumeration | | | | | | | | N = New Vehicle Submission C = Correction Vehicle Submission D = Delete Vehicle Submission R = Request Report of Vehicle Submission | Light-Duty | IUVP | | Manufacturer | Front End | XML | N-BR25 |
| | | | | | | | | | | | | | | | | | | | | | | | LD-IUVP-IV-BR001a |
| N-2 | Manufacturer Code (key field) | The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX user account | eteReportDetails InUseVerificationProgra | I EPAManufacturer Code | TRUE | | A(3) | Fixed String | 3 | 3 | [A-Z0- 9]{3} | 3 | | | | | Light-Duty | UVP | | Verify | Front End | XML | LD-IUVP-IV-BR001b LD-IUVP-IV-BR002 LD-IUVP-IV-BR003a LD-IUVP-IV-BR003b LD-IUVP-IV-BR006 LD-IUVP-IV-BR006 LD-IUVP-IV-BR009 LD-IUVP-IV-BR010 |
| IV-3 | Vehicle Identification Number (ke field) | Enter the 17-character vehicle identification number (VIN) found y under the windshield glass on the driver's side of the dashboard. | mSubmission/VehicleInfo rmationDetails or InUse/VerificationProgra mSubmission/VehicleDel eteReportDetails | | TRUE | | A(17) | String | 17 | 17 | | 17 | 0 | | | | Light-Duty | IUVP | | Manufacturer | Front End | XML | LD-IUVP-IV-BR001a LD-IUVP-IV-BR001b LD-IUVP-IV-BR002 |
| 10-3 | neid) | driver's side of the dashboard. | eteReportDetails | oninumberiext | TRUE | | A(17) | String | 17 | 17 | | 17 | 0 | | | | Light-Duty | IUVP | | Manuracturer | Front End | AML | LD-IUVP-IV-BR002 |
| ₩-4 | Emission Program (Key field) | Select the applicable in-use emission program for this test | hUseVerificationProgra mSubmissionVehicleMo mationDetails or MuSeVerificationProgra eteReportDetails | EmissionProgram | TRUE | | A(4) | Enumeration | | | | | | | | LVB = Used to meet both EPA and California UVP equiaments UVE = Used to meet EPA UVP requirements (mh) UVC = Used to meet California UUP requirements (mh) UCP requirements (mh) UCP = Nadot to meet California UCP requirements (mh) UCP = Used to meet California UCP requirements (mh) UCP = USP = US | Light-Duty | UVP | | Manufacturer | Front End | XML | LD-IUVP-N-BR001a LD-IUVP-N-BR001b LD-IUVP-N-BR002 |
| | | A code that may be assigned by | InUseVerificationProgra | | | | | | | | | | | | | | | | | | | | |
| IV-5 | EPA Investigation Number | EPA to an in-use test program- Does not apply to mfr-IUVP data. | mSubmission/VehicleInfo rmationDetails | Number | FALSE | 01 | A(10) | String | | 10 | | 10 | 0 | | | | Light-Duty | IUVP | | EPA/CARB | Back-end | XML | |
| | Test Group Name | Enter the Test Group Name for this test vehicle. | InUseVerificationProgra | TestGroupName | | | A(12) | Fixed string | 12 | 12 | [A-HJ- NPR-TV- 9]{1][A- 20- 9]{4,11]{[[V] \]][A-20- 9]{1][A- 20- 9]{1][A- Z0- 9]{4][A- Z0- 9]{4][A- Z0- 9]{4][A- | | | | | | Light-Duty | UVP | | Manufacturer | | | LD-IUVP-W-BR004 LD-IUVP-W-BR007 LD-IUVP-W-BR009 LD-IUVP-W-BR005 LD-IUVP-W-BR005 |
| №-7 | Evaporative Family Name | Family Name for this test vehicle. | rmationDetails | ingFamilyName | FALSE | 01 | A(12) | Fixed String | 12 | 12 | Z0-9]{3} | | | | | | Light-Duty | IUVP | | Manufacturer | Front End | XML | LD-IUVP-IV-BR010 |
| N-8 | Model Year | The model year for this test vehicle configuration. Errer the applicable engine | InUseVerificationProgra mSubmissionVehicleNor mationDetails PUseVerificationProgra | ModelYear | TRUE | | N(4) | Year type (1970- 2100) | | | | | | 1970 | 2100 | | Light-Duty | IUVP | | Manufacturer | Front end | XML | LD-UVP-W-BR007 LD-UVP-W-BR008 LD-UVP-W-BR024a LD-UVP-W-BR024b |
| IV-9 | Displacement | displacement in liters for this test vehicle. | mSubmission/VehicleInfo rmationDetails | entValue | TRUE | | N(6,3) | Decimal | | | | 5 | 3 | 0.001 | 99.999 | | Light-Duty | IUVP | For any back-end | Manufacturer | Front End | XML | |
| N-10 | Division Code (Make) | Enter the division/make code for this test vehicle. | hUseVerificationProgra mSubmissionVehicleInfo rmationDetails | ManufacturerDivis ionCode | TRUE | | N(2) | Integer | 2 | 2 | | | | 0 | 99 | | Light-Duty | IUVP | reports/views/queries, always display both the division code and the division name. For any back-end reports/views/queries, always display both the | Manufacturer | Front End | XML | LD-IUVP-N-BR011 |
| IV-11 | Carline Code (Model) | Enter the applicable carline code for this test vehicle. | mSubmission/VehicleInfo rmationDetails | CarlineCode | TRUE | | N(3) | Integer | 3 | 3 | | | | 0 | 999 | | Light-Duty | IUVP | carline code and the carline name. | Manufacturer | Front End | XML | LD-IUVP-IV-BR012 |
| №-12 | Verify Division/Make Name | Verify Entry of the Division Name/Make for this test vehicle. | InUseVerificationProgra mSubmission/VehicleInfo rmationDetails | VerifyDivisionMak eName | TRUE | | A(20) | String | | | | | | | | | Light-Duty | IUVP | | Verify | Back-end | XML | |
| | Verify Carline Name | Verify Entry of the Carline Name for this test vehicle. | InUseVerificationProgra mSubmission/VehicleInfo rmationDetails | VerifyCarlineNam e | TRUE | | A(32) | String | | | | | | | | | Light-Duty | | | Verify | Back-end | XML | |
| | Division Name (Make) | Enter the Division Name/Make for this test vehicle. | InUseVerificationProgra | DivisionMakeNam | | | A(20) | String | | | | | | | | | Light-Duty | | | Manufacturer | | XMI | |
| iv-12a | Invision mame (Make) | juna test venicie. | mauonDetails | e | INUE | I | A(20) | ouing | 1 | 1 | 1 | 1 | | | | U | Leight-Duty | UVP | 1 | wanuacturer | riunt-end | AWL | |

| EPA Data | | | | | | | Basic | | | | | | | | | | | | | | | |
|-------------------|---|--|--|--------------------------------|----------|--------------|--------------|--------------------------|---------------|---------------|--------------|---|------------------------|--------------|--|------------|---------|--|--------------|---------------------|--------------------|--|
| Element Number | Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Data Type | Data Type Description | Min Length | Max Length | Pattern Digi | | al <u>Min</u> Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Collection Point | Collection Type | Applicable Business Rules |
| IUVP Vehi | cle Information | | InUseVerificationProgra | | | | | | | | | | | | | | | | | | | |
| IV-13a | Carline Name (Model) | Enter the Carline Name for this test vehicle. | mSubmission/VehicleInfo rmationDetails | CarlineName | TRUE | | A(32) | String | | | | | | | | Light-Duty | IUVP | | Manufacturer | Front-end | XML | |
| | | Enter the trim level for this test vehicle (i.e., Super Cab, EXT, | InUseVerificationProgra mSubmission/VehicleInfo | | | | | | | | | | | | | | | | | | | |
| N-14 | Trim Level | etc.) | rmationDetails | TrimLevelText | FALSE | 01 | A(20) | String | | | | _ | | | | Light-Duty | IUVP | | Manufacturer | Front End | XML | |
| | | Enter the optional manufacturer vehicle model name. This is not a | In Inc.) (orificationDrogram | | | | | | | | | | | | | | | | | | | |
| | Mfr Vehicle Model Name | required field and may be used at | mSubmission/VehicleInfo | VehicleModelNam | FALSE | 0.1 | A(20) | String | | | | | | | | Light Duty | IUVP | | Manufacturer | | XML | |
| IV-15 | Mfr Vehicle Model Name | the manufacturer's discretion. | rmationDetails InUseVerificationProgra | e | FALSE | 01 | A(20) | String | | | | | | | | Light Duty | IUVP | | Manufacturer | Front end | XML | |
| IV-16 | Vehicle Procured Sales Area | Sales area from where the vehicle is obtained. | rmationDetails | alesArealdentifier | TRUE | | A(2) | Enumeration | | | | | | | CA = California FA = Federal | Light-Duty | IUVP | | Manufacturer | Front End | XML | |
| | | Select the state from which this | InUseVerificationProgra mSubmission/VehicleInfo | VehicleProcuredS | TRUE | | | | | | | | | | Provide a full list of state abbreviations for | | UVP | | | | | |
| N-17 | Vehicle Procured State | test vehicle was procured. | rmationDetails InUseVerificationProgra | tateldentifier | TRUE | | A(2) | Enumeration | | | | | | | the United States. | Light-Duty | IUVP | | Manufacturer | Front End | XML | |
| IV-18 | Vehicle Procured Altitude | Altitude of area from where the vehicle is obtained. | mSubmission/VehicleInfo rmationDetails | ltitudeIndicator | TRUE | | A(1) | Enumeration | | | | | | | L = Low H = High | Light-Duty | IUVP | | Manufacturer | Front End | XML | |
| | | Climate of the area from where | InUseVerificationProgra mSubmission/VehicleInfo | VehicleProcuredC | | | | | | | | | | | W = Warm area | | | | | | | |
| IV-19 | Vehicle Procured Climate | the vehicle is obtained | InUseVerificationProgra | limateIndicator | TRUE | | A(1) | Enumeration | | | | - | | | C = Cold area | Light-Duty | IUVP | | Manufacturer | Front End | XML | |
| | | | mSubmission/VehicleInfo rmationDetails or | | | | | | | | | | | | H=High mileage (minimum of 50,000 | | | | | | | LD-IUVP-IV-BR001a LD-IUVP-IV-BR001b |
| | | The mileage category of this test | InUseVerificationProgra mSubmission/VehicleDel | MileageCategory | | | | | | | | | | | miles) L = Low mileage (minimum of 10,000 | | | | | | | LD-IUVP-IV-BR002 LD-IUVP-IV-BR024a |
| N-20 | Mileage Category | vehicle. | eteReportDetails | ndicator | TRUE | | A(1) | Enumeration | | | | | | | miles) Y = Yes, vehicle used to meet 75% of | Light-Duty | IUVP | | Manufacturer | Front End | XML | LD-IUVP-IV-BR024b |
| | | | | | | | | | | | | | | | useful life requirement and odometer > 75% of useful life | | | | | | | |
| | | | | | | | | | | | | | | | L = Yes, vehicle used to meet 75% of | | | | | | | |
| | | | InUseVerificationProgra | SeventyFivePerce | | | | | | | | | | | useful life requirement but odometer < 75% (Requires EPA/CARB approval) | | | | | | | |
| IV-21 | 75% Useful Life | Is this vehicle being used to meet the 75% useful life requirement? | rmationDetails | ntUsefulLifeIndicat or | TRUE | | A(1) | Enumeration | | | | | | | N = No, vehicle not used to meet 75% of useful life requirement | Light-Duty | IUVP | | Manufacturer | Front End | XML | |
| | | Enter the odometer reading (in miles) at the time of the vehicle | InUseVerificationProgra mSubmission/VehicleInfo | OdometerStartVal | | | | | | | | | | | | | | | | | | |
| IV-22 | Odometer at time of Procurement | procurement | rmationDetails | ue | TRUE | | N(7,1) | Decimal | 1 | 7 | 7 | 1 | | | A = Automatic | Light Duty | IUVP | | Manufacturer | Front End | XML | |
| | | | | | | | | | | | | | | | AM = Automated Manual M = Manual | | | This field was added to | | | | |
| | | | | | | | | | | | | | | | SA = Semi-Automatic CVT= Continuously Variable | | | be consistent with | | | | |
| | | | InUseVerificationProgra | | | | | | | | | | | | SCV=Selectable Continuously | | | transimission info in certification/confirmator | | | | |
| N-23 | Transmission Type? | Enter the transmission type for this test vehicle configuration. | mSubmission/VehicleInfo rmationDetails | TransmissionType Identifier | TRUE | | A(3) | Enumeration | | | | | | | Variable (e.g. CVT with paddles) OT = Other | Light Duty | IUVP | y test vehicle information. | Manufacturer | Front end | XML | LD-IUVP-IV-BR015 |
| | | | | | | | | | | | | | | | | | | This field was added to be consistent with | | | | |
| | | Enter a description of the | InUseVerificationProgra | | | | | | | | | | | | | | | transimission info in certification/confirmator | | | | |
| N-24 | Transmission Type Other Description? | transmission type if "Other" is selected | mSubmission/VehicleInfo rmationDetails | TransmissionType OtherText | TRUE | | A(30) | String | 1 | 30 | | | | | | Light Duty | UVP | y test vehicle | Manufacturer | Front end | ХМІ | LD-IUVP-IV-BR013a LD-IUVP-IV-BR013b |
| | | | | | | | (| | | | | | | | | | | This field was added to be consistent with | | | | |
| | | Is the transmission on this test | InUseVerificationProgra | | | | | | | | | | | | | | | transimission info in certification/confirmator | | | | |
| | | vehicle configuration equipped | mSubmission/VehicleInfo | TransmissionLock | | | | | | | | | | | Y=Yes | | | y test vehicle | | | | |
| IV-25 | Transmission Lockup? | with lockup? | rmationDetails | upIndicator | TRUE | | A(1) | Enumeration | | | | | | | N=No | Light Duty | IUVP | information. This field was added to | Manufacturer | Front end | XML | LD-IUVP-IV-BR014 |
| | | | | | | | | | | | | | | | | | | be consistent with transimission info in | | | | |
| | | Is the transmission on this test vehicle configuration equipped | InUseVerificationProgra mSubmission/VehicleInfo | TransmissionCree | | | | | | | | | | | Y=Yes | | | certification/confirmator y test vehicle | | | | |
| IV-26 | Creeper Gear? | with a creeper gear? | rmationDetails | perGearIndicator | TRUE | | A(1) | Enumeration | | | | | | | N=No | Light Duty | IUVP | information. | Manufacturer | Front end | XML | |
| | | Enter the number of transmission gears on this test vehicle | | | | | | | | | | | | | | | | This field was added to be consistent with | | | | |
| | | configuration. If this vehicle is equipped with a "transmission | InUseVerificationProgra | | | | | | | | | | | | | | | transimission info in certification/confirmator | | | | |
| N-27 | Number of Transmission Gears? | type" of "CVT", enter "1" for the number of gears. | mSubmission/VehicleInfo rmationDetails | TransmissionGear Count | TRUE | | N(2) | Integer | | | | | 1 | 99 | | Light Duty | UVP | y test vehicle | Manufacturer | Front end | XMI | LD-IUVP-IV-BR016 |
| 10-27 | Number of transmission dears? | | InUseVerificationProgra | Count | TRUE | | 19(2) | neger | | | | | | 99 | | Light Duty | IUVF | mornauon. | Manuacturer | FIOILEID | AIVIL | LD-IOVF-IV-BR010 |
| IV-28 | Tire Size | Enter the tire size for this test vehicle. | mSubmission/VehicleInfo rmationDetails | TireSizeText | FALSE | 01 | A(12) | String | | | | | | | | Light Duty | IUVP | | Manufacturer | Front end | XML | |
| | | Enter the axle ratio for this test | InUseVerificationProgra mSubmission/VehicleInfo | | | | | | | | | | | | | | | 1 | | | | |
| IV-29 | Axle Ratio | vehicle. | rmationDetails InUseVerificationProgra | AxleRatioValue | FALSE | 01 | N(3,2) | Decimal | | | 3 | 2 | 0.00 | 9.99 | | Light Duty | IUVP | | Manufacturer | Front end | XML | |
| IV-30 | Engine Code | Enter the engine code for this test vehicle. | mSubmission/VehicleInfo rmationDetails | EngineCodeText | FALSE | 01 | A(14) | String | | | | | | | | Light Duty | IUVP | | Manufacturer | Front end | XML | |
| | - | | | | | | | | | | | | | | 1000, 1125, 1250, 1375, 1500, 1625, 1750, 1875, | | | | | | | |
| | | | | | | | | | | | | | | | 2000, 2125, 2250, 2375, 2500, 2625, | | | 1 | | | | |
| | | | | | | | | | | | | | | | 2750, 2875, 3000, 3125, 3250, 3375, 3500, 3625, | | | 1 | | | | |
| | | | | | | | | | | | | | | | 3750, 3875, 4000, 4250, 4500, 4750, | | | 1 | | | | |
| | | | | | | | | | | | | | | | 5000, 5250, 5500, 6000, 6500, 7000, 7500, 8000, 8500, | | | 1 | | | | |
| | | | InUseVerificationProgra mSubmission/VehicleInfo | EquiplentTeeller | | | | | | | | | | | 9000, 9500,10000, 10500, 11000, 11500, 12000, 12500, | | | 1 | | | | |
| IV-31 | ETW | Equivalent Test Weight in pounds | mSubmission/VehicleInfo rmationDetails | | FALSE | 01 | l(5) | Enumeration | | | | | | | 11000, 11500, 12000, 12500, 13000, 13500, 14000 | Light Duty | IUVP | | Manufacturer | Front end | XML | |
| | | | | | | | | | | | | | | | | | | | | | | |

| EPA Data Element | | | | | | Basic Data | Data Type | Min | Max | | Total | Fractional | Min | Max | | | | | | Collection 0 | Collection | |
|---|--|---|---------------------------------------|----------|--------------|---------------|--------------|--------|--------|--|--------|------------|-------|-------|---|------------|---------|-----------------|--------------|--------------|------------|--|
| Number Long Name IUVP Vehicle Information | Description | Parent's Name | XML Tag | Required | Multiplicity | Type | Description | Length | Length | Pattern | Digits | Digits | Value | Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Point | Туре | Applicable Business Rules |
| N-32 Date of Inspection | Enter a valid calendar date that the inspection was conducted. | hUseVerificationProgra mSubmissionVehicleMo rmationDetails | VehicleInspection Date | FALSE | 01 | D(8) | Date | | | [1-2]{1]{0- 9]{3}{0- 1]{1}{0- 9]{1}{0- 3]{1}{0- 3]{1}{0- 9]{1} | | | | | | Light Duty | IUVP | | Manufacturer | Front end | XML | LD-IUVP-IV-BR017 |
| | Enter the valid calendar date on | | | | | | _ | | | [1-2]{1]{0- 9]{3}{0- 1]{1}{0- 9]{1}{0- 3]{1}{0- 3]{1}{0- | | | | | | | | | | | | LD-IUVP-IT-BR019a |
| IV-33 Build Date | which this test vehicle was built. Is the MIL dashboard bulb illuminated (during key-on/engine | rmationDetails InUseVerificationProgra mSubmission/VehicleInfo | VehicleBuiltDate VisualMalfunction | | | D(8) | Date | | | 9]{1} | | | | | Y = MIL Dashboard Bulb Illuminated | Light Duty | IUVP | | Manufacturer | Front end | XML | LD-IUVP-IT-BR019b |
| IV-34 Visual MIL Status | off)? | rmationDetails InUseVerificationProgra | LightIndicator | FALSE | | A(1) | Enumeration | | | | | | | | N = MIL Dashboard Bulb Not Illuminated | Light Duty | IUVP | | Manufacturer | Front end | XML | |
| IV-35 Commanded MIL Status | Is the MIL commanded "On"? | mSubmission/VehicleInfo rmationDetails | nctionLightIndicat or | TRUE | | A(1) | Enumeration | | | | | | | | Y = MIL commanded on N = MIL commanded off | Light Duty | IUVP | | Manufacturer | Front end | XML | |
| N-36 Active Trouble Codes Status | Are there any active trouble code present during the initial inspection? Enter all applicable 5-digit OBD | s InUseVerificationProgra mSubmission/VehicleInfo rmationDetails | ActiveTroubleCod eIndicator | TRUE | | | Enumeration | | | | | | | | Y = Active Trouble Codes Present N = No Active Trouble Codes Present | Light Duty | IUVP | | Manufacturer | Front end | XML | LD-IUVP-IV-BR018 |
| N-37 Trouble Codes | diagnostic trouble codes. For example, P0### or P1###. | InUseVerificationProgra mSubmissionVehicleInfo rmationDetails | ActiveTroubleCod e | FALSE | 010 | A(5) | Fixed String | 5 | 5 | [A-Z0- 9]{5} | 5 | | | | | Light Duty | IUVP | | Manufacturer | Front End | XML | LD-IUVP-IV-BR019a LD-IUVP-IV-BR019b |
| IV-38 Readiness Status Complete? | Are all the readiness monitors complete? | InUseVerificationProgra mSubmission/VehicleInfo rmationDetails | ReadinessStatus CompleteIndicator | TRUE | | A(1) | Enumeration | | | | | | | | Y = all readiness monitors are complete N = not all readiness monitors are complete | Light Duty | IUVP | | Manufacturer | Front end | XML | |
| incomplete Readiness Status IV-39 Codes | Enter the readiness monitors that are incomplete? Select all that apply. | mSubmission/VehicleInfo | | | 07 | | Enumeration | | | | | | | | CAT = Catalyst O2 = Oxygen Sensor EGR = Exhaust Gas Recirculation EVAP = Exeporative System HO2 = Oxygen Sensor Heater SECA = Secondary Air O1 = Other (must enter a description in the Vehicla Comment field if "Other" selected. | | | | Manufacturer | | XML | LD-IUVP-IV-BR020a LD-IUVP-IV-BR020b |
| | Enter the applicable rejection code (after the initial inspection) for this test vertice. | hUseVerificationProgra mSubmissionVehicleKo mationDetails | VehicleRejection Code | TRUE | | 1(2) | Enumeration | 1 | 2 | | | | | | 0 = Vehicle was not rejected 1 = Odometer inoperative, replaced or out of range 2 = Emissions estimation and the second baseling and the second second second second 3 = Severe dut opceration (trailer toxing pass, cars), snow powing, racing) 4 = Extensive collision repair or major angine repair/rebuilding 5 = Ominous notises or serious teaks from engine, transmission and oxinuut 6 = Vehicle unaside for testing 7 = ML light flashing (severe misfire indication) 8 = Other reason for rejection (requires EPACARB aproval) | Light Duty | LVP | | Manufacturer | Front End | XML | |
| | If "01" through "08" was selected | | | | | | | | | | | | | | | | | | | | | |
| V-41 Vehicle Rejection Comments | for the Vehicle Rejection Code, enter an explanation of the reason this test vehicle was rejected. | InUseVerificationProgra mSubmission/VehicleInfo rmationDetails | VehicleRejection CommentText | FALSE | | A(500) | String | 1 | 500 | | | | | | | Light Duty | IUVP | | Manufacturer | Front End | XML | LD-IUVP-IV-BR022 |
| N-43 Air Aspiration Method | Enter the applicable air aspiration method for this test vehicle configuration. | | | TRUE | | A(2) | Enumeration | | | | | | | | NA=Naturally aspirated TC=Turbocharged SC=Supercharged TS=Turbocharged+Supercharged OT=Other | Light-Duty | | | Manufacturer | | XML | |
| N-44 Test Drive Code | Enter the applicable test drive code for the way this test vehicle configuration was/is to be tested. | hUseVerificationProgra mSubmissionVehiclehto rmationDetails InUseVerificationProgra | TestDriveCode | TRUE | | A(1) | Enumeration | | | | | | | | 1 = Rear Drive Steering Left 2 = Rear Drive Steering Right 3 = Front Drive Steering Left 4 = Front Drive Steering Left 5 = Four Wheel Drive Steering Right 6 = Four Wheel Drive Steering Right 7 = Rear Drive Off Road 9 = Other | Light-Duty | | | Manufacturer | | XML | |
| N-42 IUVP Vehicle Comments | Enter any additional comments regarding this test vehicle. | InUseVerificationProgra mSubmission/VehicleInfo rmationDetails InUseVerificationProgra | VehicleComment Text | FALSE | | A(1000) | String | 1 | 1000 | | | | | | | Light Duty | IUVP | | Manufacturer | Front End | XML | LD-IUVP-IV-BR021 |
| IV-45 Deletion Reason | The reason for deleting the vehicle submission | mSubmission/VehicleDel eteReportDetails | | FALSE | 01 | A(500) | String | 1 | 500 | | | | | | | Light Duty | IUVP | | Manufacturer | Front End | XML | LD-IUVP-IV-BR023 |

| EPA Data Element | | | Parent's | | | | Basic Data | Data Type | Min | Max. | | Total | Fractiona | Min | | | | | | Collection Collecti Point on Type | |
|------------------------|--|--|--|-------------------------------------|-----------------|--------------|---------------|--------------|----------|-------|-----------------|--------|-----------|-----------------|--|------------|---------|--|-------------------|---------------------------------------|--|
| Number IUVP Tes | Long Name t Information | Description | Name | XML Tag | <u>Required</u> | Multiplicity | Type | Description | Length L | ength | Pattern | Digits | Digits | Value Max Value | Allowed Values | Industry | Process | Notes/Questions | <u>Originator</u> | Collection. Collecti Point on Type | Applicable Business Rules |
| <u>IT-1</u> | Process Code | Select the desired process code for the current submission. | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details or InUseVerifi cation/Test DeleteRep ortDetails InUseVerifi | TestProcessCode | TRUE | | A(1) I | Enumeration | | | | | | | N = New Test Submission G = Correction Test Submission D = DeleteT est Submission R = Reguest Report of Test Submission | Light-Duty | IUVP | Note to CSC: Use the same list of process codes for all Verify Light-Duty data submissions. Need to discuss the report function for mfrs. | Manufacturer | Front End XML | |
| IT-2 | Manufacturer Code (key field) | The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX user account | cationProg ramSubmi ssion/Testl nformation Details or InUseVerifi cationProg ortDetails InUseVerifi cationProg | EPAManufacturerCode | a TRUE | | A(3) | Fixed String | 3 | 3 | [A-Z0- 9]{3} | 3 | | | | Light-Duty | IUVP | | Verify | Front End XML | LD-IUVP-IT-BR001a LD-IUVP-IT-BR002 LD-IUVP-IT-BR002 LD-IUVP-IT-BR003a LD-IUVP-IT-BR003a LD-IUVP-IT-BR004b LD-IUVP-IT-BR005a LD-IUVP-IT-BR005a LD-IUVP-IT-BR013 |
| <u> </u> | Vehicle Identification Number (key field) | Enter the 17-character vehicle identification number (VIN) found under the windshield glass on the driver's side of the dashboard. | ramSubmi ssion/Testl nformation Details or InUseVerifi cationProg ramSubmi ssion/Test DeleteRep ortDetails | VehicleIdentificationNu mberText | J TRUE | | A(17) | String | 17 | 17 | | 17 | 0 | | ILVB = Used to meet both EPA and California IUVP requirements | Light-Duty | IUVP | | Manufacturer | Front End XML | LD-UVP-IT-BR001a LD-UVP-IT-BR001a LD-UVP-IT-BR002a LD-UVP-IT-BR003a LD-UVP-IT-BR003b |
| <u> </u> | Emission Program (key field) | Select the applicable in use emission program for this test. | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details or InUseVerifi cationProg ramSubmi n-ssion/Test DeleteRep ortDetails | EmissionProgramIdenti fier | i TRUE | | A(4) | Enumeration | | | | | | | IUVE - Lubad to meet EPA IUVP requirements (ml) IUVC - Evado to meet California IUVP requirements (ml) IUVC = used to meet California IUVCP requirements (ml) IUCE - Lubad to meet California IUVCP IUCE - Lubad to meet California IUVCP requirements (ml) IUCE - Lubad to meet California IUVCP requirements (ml) ICC - Lubad to meet California IUVCP requirements (ml) IUCE - Lubad to meet C |) B. | IUVP | | Manufacturer | Front End XIIL | LD-UVP-IT-BR001a LD-UVP-IT-BR001a LD-UVP-IT-BR003a LD-UVP-IT-BR003a LD-UVP-IT-BR003b |
| IT-5 | Verify Test # (key field) | Each separate test for a specific VIN should have a unique test number assigned by Verify. | cationProg ramSubmi ssion/Testl nformation Details or InUseVerifi cationProg | VerifyTestNumber | TRUE | | 1(7) | Integer | | | | | | | | Light-Duty | IUVP | Verify should assign a sequential test number to all light-duty tests submitted to Verify (cert, fuel economy, EPA confirmatory test, IUVP, EPA in-use, etc.) | Verify | Back-end XML | LD-ILIVP-IT-BR001a LD-ILVP-IT-BR001b LD-ILVP-IT-BR002 LD-ILVP-IT-BR006a LD-ILVP-IT-BR006b LD-ILVP-IT-BR006c |
| IT-6 | Manufacturer/LOD Test # | | cationProg ramSubmi ssion/Testl nformation Details | LODMfrTestNumberTe xt | TRUE | | A(20) | String | 1 | 20 | | | | | | Light-Duty | IUVP | | Manufacturer | Front End XML | |
| <u>IT-7</u> | Test Laboratory Code | Enter the two-digit Verify test laboratory code (assigned in Verify's Mfr Profile Information for your company) where this test was conducted. | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details | TestLaboratorySiteCod e | t TRUE | | l(2) | Integer | 1 | 2 | | | | | | Light-Duty | IUVP | (Note- The test lab name wil | Manufacturer | Front End XML | LD-IUVP-IT-BR007 |
| IT-8 | Laboratory Name | The name of the test laboratory where testin was performed | InUseVerifi cationProg ramSubmi ngssion/Testl nformation Details InUseVerifi | TestLaboratoryName | TRUE | | A(35) | String | | | | | | | | Light-Duty | | Manufacturer Info for the specified test lab code. The test lab name must be in the XML file that is sent to CARB.) | Verify | Front End XML | |
| IT-9 | Odometer at start of test | Enter the odometer reading (in miles) at th beginning of this test. | cationProg ramSubmi ssion/Testl e nformation | OdometerStartValue | TRUE | | N(7,1) | Decimal | 1 | 7 | | 7 | 1 | | | Light Duty | IUVP | | Manufacturer | Front End XML | |
| <u>IT-10</u> | Pass/Fail/Void (Federal Standards) | Enter the Federal pass/fail/void status of this test. | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details | FederalPassFailIndicat or | t TRUE | | | Enumeration | | | | | | | $\begin{array}{l} P=Pass\\ F=Fall (describe what Federal standards/emissions it failed in the Test Comments field)\\ V=Void (explain reasons why in the comments field)\\ NA = not applicable (not certified to Federal standards) \end{array}$ | Light-Duty | IUVP | We are deleting the option for "A - Incomplete test (describe in the comments field). | Manufacturer | Front End XML | LD-IUVP-IT-BR008 |
| IT-11 | Pass/Fail/Void (California Standards) | ifornia pass/fail/void st | InUseVerifi cationProg ramSubmi ssion/Testl nformation at Details | CaliforniaPassFailIndic ator | TRUE | | | Enumeration | | | | | | | P = Pass F = Fail (describe what California standards/emissions it failed in the Test Comments field) V = Void (explain reasons why in the comments field) NA = not applicable (not certified to California standards) | Light-Duty | IUVP | | Manufacturer | Front End XML | LD-IUVP-IT-BR009 |

| EPA Data Element | | | Parent's | | | | Basic Data | Data Type. | Min. Max. | Tot | tal. Fractional Min | | | | | | | Collection | Collecti | |
|------------------------|--|--|--|--|------------|--------------|---------------|----------------------------|---------------|---|---------------------|-----------|---|------------|---------|-----------------|--------------|------------|----------|--------------------------------------|
| Number | Long Name | Description | Name | XML Tag | Required | Multiplicity | Type | Description | Length Length | Pattern Dig | its Digits Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Point | on Type | Applicable Business Rules |
| | Test Date | Enter the valid calenda date at the start of this test. | Details | TestDate | TRUE | | | Date | | [1-2]{1}[0 9]{3}[0- 1]{1}[0- 9]{1}[0- 3]{1}[0- 3]{1}[0- 9]{1} | | | | Light-Duty | IUVP | | Manufacture | Front End | XML | LD-IUVP-IT-BR012 LD-IUVP-IT-BR019 |
| IT-13 | Test Condition | Select the applicable test condition value for this test. | | TestConditionsIdentifie | er TRUE | | | Enumeration | | | | | AR = As received AM = After maintenance (Explain what maintenance was performed in the Test Comments field) SS = Set to spec (EPA & ARB only) | Light-Duty | IUVP | | Manufacture | Front End | XML | |
| | Test Procedure | Select the applicable test procedure for this test. | InUseVerifi cationProg ramSubmi ssion/Testl | TestProcedureIdentifie | | | | Enumeration | | | | | A ⁺ - UT = TIMULTINE (THO - UNL CALL A ⁺ - UT = TIMULTINE (THO - UNL CALL A ⁺ - DEL & CO A | Light-Duty | | | Manufacturei | Front End | XML | LD-UVP-IT-BR020 |
| <u> </u> | Fuel Type | Select the applicable fuel type for this test. | InUseVerifi cationProg ramSubmi ssion/Testi nformation Details | TestFuelTypeldentifie | r TRUE | | | Enumeration | | | | | Use the same list of Fuel Types from certification. | Light-Duty | IUVP | | Manufacture | Front End | XML | |
| | | Was the Shift Indicator | InUseVerifi cationProg ramSubmi ssion/Testl nformation | ShiftIndicatorLightUsa | 9 | | | | | | | | Y = Yes N = No | | | | | | | |
| | Shift Indicator Light Transmission Mode | Light used for this test? | Details InUseVerificationProg ramSubmi ssion/Testl nformation Details | eIndicator TransmissionModeIndi ator | FALSE | 01 | | Enumeration Enumeration | | | | | N = Not applicable P = Power E = Economy | Light-Duty | | | Manufacture | Front End | XML | |
| | Transmission Mode Transmission Configuration As Tested | If the vehicle has a semi-automatic transmission, enter the mode in which it was tested. | InUseVerifi cationProg ramSubmi | ator TransmissionTestConf gurationIdentifier | 6 | 01 | | Enumeration | | | | | A – Automatic mode M – Manual mode | Light-Duty | | | | Front End | XML | |
| IT-19 | Test Altitude | Select the applicable altitude value at which this test was conducted. | ramSubmi ssion/Testl nformation Details | TestAltitudeIndicator | TRUE | | | Enumeration | | | | | L = Low Altitude H = High Altitude | Light-Duty | IUVP | | Manufacture | Front End | XML | |
| IT-20 | Dyno Type | Select the applicable value for the type of dynamometer used for this test. | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details | DynamometerTypelde tifier | n FALSE | 01 | | Enumeration | | | | | HY = Hydrokinetic (8.65 inch twin rolls) E1 = Electric (8.65 inch twin rolls) E2 = Electric (30 inch twin rolls) E3 = Electric (40 inch single roll) E4 = Electric (24 inch single roll) E4 = Electric (24 inch single roll) E4 = AVD Electric (24 inch single roll) | Light-Duty | IUVP | | Manufacture | Front End | XML | |

| EPA Data Element | | | Parent's | | | | Basic | Data Type. | Min | Max. | | Total | Fractional | Min | | | | | | | Collection | Collecti | |
|------------------------|-------------------------------------|--|---|-----------------------------|----------|--------------|--------------|-------------------------------|-----|--------|---------|--------|----------------------|-------|-----------|---|------------|---------|-----------------|--------------|------------|----------|--|
| Number | Long Name st Information | Description | Name | XML Tag | Required | Multiplicity | Data Type | Description | | Length | Pattern | Digits | Fractional Digits | Value | Max Value | Allowed Values | Industry | Process | Notes/Questions | Originator | Point | on Type | Applicable Business Rules |
| IT-21 | Road Load HP | Enter the road-load horsepower (HP) for this test. This may als be referred to as dyno horsepower. | InUseVerifi cationProg ramSubmi ossion/Testl nformation Details InUseVerifi | RoadLoadHorsepower Value | FALSE | 01 | N(3,1) | Floating Decimal Number | 3 | 3 | | 3 | 1 | 0 | 99.9 | | Light-Duty | IUVP | | Manufacturer | Front End | XML | |
| IT-22 | Dynamometer Set Coefficient A | Enter the single roll dynamometer set coefficient A for this test. | cationProg ramSubmi ssion/Testl nformation Details/Dy namomete rSetTarget Details | SetCoefficientAValue | FALSE | 01 | R(7) | Floating Decimal Number | | | | 6 | 3 | -1000 | 999.999 | | Light-Duty | IUVP | | Manufacturer | Front End | XML | |
| IT-23 | Dynamometer Set Coefficient B | Enter the single roll dynamometer set coefficient B for this test. | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Dy namomete rSetTarget Details | SetCoefficientBValue | FALSE | 01 | R(7) | Floating Decimal Number | | | | 6 | 5 | -10 | 9.99999 | | Light-Duty | IUVP | | Manufacturer | Front End | XML | |
| 17-24 | Dynamometer Set Coefficient C | Enter the single roll dynamometer set coefficient C for this test. | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Dy namomete rSetTarget Details | SetCoefficientCValue | FALSE | 01 | B(7) | Floating Decimal Number | | | | 7 | 6 | -10 | 9.099099 | | Light-Duty | IUVP | | Manufacturer | Front End | XML | |
| IT-25 | Dynamometer Target | Enter the single roll dynamometer target coefficient A for this test | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Dy namomete rSetTarget Details | TargetCoefficientAValu e | | 01 | R(7) | Floating Decimal Number | | | | 6 | 3 | -1000 | 990.999 | | Light-Duty | | | Manufacturer | | | |
| | Dynamometer Target Coefficient B | Enter the single roll dynamometer target coefficient B for this test | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Dy namomete rSetTarget Details | TargetCoefficientBValu | FALSE | 01 | R(7) | Floating Decimal Number | | | | 6 | 5 | -10 | 999.999 | | Light-Duty | | | Manufacturer | | | |
| | Dynamometer Target Coefficient C | Enter the single roll dynamometer target coefficient C for this teet | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Dy namomete | TargetCoefficientCValu | | 01 | R(7) | Floating Decimal Number | | | | 7 | 6 | -10 | 3.099999 | | | | | | | XML | |
| | | | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details or InUseVerifi cationProg ramSubmi | 0 | TALSE | 0.1 | R(/) | Numbel | | | | , | 0 | -10 | s. adagaa | | Light-Duty | 1044 | | Manufacturer | - TOTA ENG | AIVIL | LD-IUVP-IT-BR001a LD-IUVP-IT-BR001b LD-IUVP-IT-BR002 |
| | Mileage Category | The mileage category of this test vehicle. | ortDetails InUseVerifi cationProg ramSubmi ssion/Test DeleteRep | | TRUE | | A(1) | Enumeration | | | | | | | | H = High mileage (minimum of 50,000 miles) L = Low mileage (minimum of 10,000 miles) | Light-Duty | | | Manufacturer | | XML | LD-IUVP-IT-BR003a LD-IUVP-IT-BR003b LD-IUVP-IT-BR018 |
| IT-39 | Deletion Reason | the test submission | ortDetails | Text | FALSE | 01 | A(500) | String | 1 | 500 | | | | | | | Light-Duty | IUVP | | Manufacturer | Front End | XML | LD-IUVP-IT-BR015 |

| EPA Data Element Number Long Name | Description | Parent's Name | XML Tag | Required | Multiplicity | Basic Data Type | Data Type. Description | <u>Min</u> Length | <u>Max</u> Length F | | | Fractional Digits | <u>Min</u> | Max Value | Allowed Values | Industry | Process | Notes/Questions | <u>Originator</u> | Collection. Point | <u>Collecti</u> on Type | Applicable Business Rules |
|--|--|---|------------------------------------|----------|--------------|-----------------------|---------------------------|----------------------|------------------------|--|----|----------------------|------------|---------------|--|------------|---------|-----------------|-------------------|----------------------|----------------------------|--|
| IUVP Test Information | Select the desired test result name. | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Te stResultD etails | TesiResultidentifier | TRUE | 0.n | | Enumeration | | | | | | | | C TOTUL (Tati Injection) C OTATAL (Tati Injection) C OTATAL C | Light-Duty | | | Manufacturer | | | Update LD-UVP-IT-BR021 Update LD-UVP-IT-BR021 Update LD-UVP-IT-BR022 |
| IT-29 Weighted result | Test results. Weighted result if more than 1 bag is measured. | InUseVerifi cationProg | WeightedResultValue | TRUE | 0n | N(11,7) | Decimal | | | | 11 | 7 | 0 | 99993.9999999 | | Light-Duty | IUVP | | Manufacturer | Front End | XML | |
| IT-30 Test Result Unit | Select the applicable units for this test result. | ramSubmi ssion/Testl nformation Details/Te stResultD etails InUseVerifi cationProg | TestResultUnitIdentifier | TRUE | 0n | | Enumeration | | | | | | | | g/m = grams per mile g/t = grams per test (applies to evaporative tests) mpg = miles grallon g/g = grams per gallon (dispensed) for ORVR tests | Light-Duty | IUVP | | Manufacturer | Front End | XML | <u> </u> _ |
| IT-31 In-use Standard (Federal | The Federal in-use emission standard for the selected emission) name. | ramSubmi ssion/Testl nformation Details/Te | FederalInUseStandard\ alue | FALSE | 0n | N(7,4) | Decimal | | | [0-]{1,3}([\\ .][0-]]{1,4})? | 7 | 4 | 0 | 999.9999 | | Light-Duty | IUVP | | Manufacturer | Back-end | XML | |
| In-use Standard IT-32 (California) | Emission standard for the emission listed. | cationProg ramSubmi ssion/Testl nformation Details/Te stResultD etails | CaliforniaInUseStandar dValue | FALSE | 0n | N(7,4) | Decimal | | 9 | [0- {1,3}([\\ .][0- 9]{1,4})? | 7 | 4 | 0 | 999.9999 | | Light-Duty | IUVP | | Manufacturer | Back-end | XML | |
| _ IT-33 _bag 1 result | Bag 1 result of the emission listed in grams/mile. Required for FTP tests. | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Te stResultD etails | Bag1ResultValue | FALSE | 0n | N(11,7) | Decimal | | | | 11 | 7 | 0 | 9699.9999999 | | Light-Duty | IUVP | | Manufacturer | Front End | XML | LD-IUVP-IT-BR016 |
| IT-34 bag 2 result | Bag 2 result of the emission listed in grams/mile. Required for FTP tests. | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Te stResultD etails | Bag2ResultValue | FALSE | 0n | N(11,7) | Decimal | | | | 11 | 7 | 0 | 9999.9999999 | | Light-Duty | IUVP | | Manufacturer | Front End | XML | LD-IUVP-IT-BR016 |
| IT-35 bag 3 result | Bag 3 result of the emission listed in grams/mile. Required for FTP tests. | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Te stResultD etails | Bag3ResultValue | FALSE | | N(11.7) | Decimal | | | | 11 | 7 | | 9999.9999999 | | | IUVP | | Manufacturer | | XML | LD-IUVP-IT-BR016 |
| | Bag 4 result of the emission listed in grams/mile. Only required for FTP tests | InUseVerifi cationProg ramSubmi ssion/Testl nformation Details/Te stResultD | | | | | | | | | | 1 | 0 | | | Light-Duty | | | | | | |
| IT-36 bag 4 result | of hybrid vehicles. Enter any additional comments for this test. Include any emission standards and emission names that failed. If this test was voided, describe the reason for the void. | etails InUseVerifi cationProg ramSubmi ssion/Testl nformation Details | Bag4ResultValue TestCommentText | FALSE | 0n | N(11,7) | Decimal | 1 | 1000 | | 11 | 7 | 0 | 9999.9999999 | | Light-Duty | | | Manufacturer | | XML | LD-IUVP-IT-BR017 LD-IUVP-IT-BR010 LD-IUVP-IT-BR011 LD-IUVP-IT-BR014 |

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality Date 2011-May-13

These equations are used by Verify to calculate CREE and Optional CREE if they are selected as Test Result/Emission Name in Test Information.

Gasoline - 40 CFR 600.113-12(h)(2)

CREE 40 CFR 600.113-12(h)(2)(i) = [(CWF / 0.273) * **HC**] + (1.571 * CO) + CO2 OptCREE 40 CFR 600.113-12(h)(2)(ii) = [(CWF / 0.273) * **NMHC**] + (1.571 * CO) + CO2 + **(298 * N2O) + (25 * CH4)**

Diesel - 40 CFR 600.113-12(i)(2)

 CREE
 40 CFR 600.113-12(i)(2)(i)
 = (3.172 * HC) + (1.571 * CO) + CO2

 OptCREE
 40 CFR 600.113-12(i)(2)(ii)
 = (3.172 * NMHC) + (1.571 * CO) + CO2 + (298 * N2O) + (25 * CH4)

Methanol - 40 CFR 600.113-12(j)(2)

 CREE
 40 CFR 600.113-12(j)(2)(i)
 = [(CWF / 0.273) * HC] + (1.571 * CO) + (1.374 * CH3OH) + (1.466 * HCHO) + CO2

 OptCREE
 40 CFR 600.113-12(j)(2)(ii)
 = [(CWF / 0.273) * NMHC] + (1.571 * CO) + (1.374 * CH3OH) + (1.466 * HCHO) + CO2 + (298 * N2O) + (25 * CH4)

CNG - 40 CFR 600.113-12(k)(2)

 CREE
 40 CFR 600.113-12(k)(2)(i)
 = [(CWFNMHC / 0.273) * NMHC] + (1.571 * CO) + CO2 + (2.743 * CH4)

 OptCREE
 40 CFR 600.113-12(k)(2)(ii)
 = [(CWFNMHC / 0.273) * NMHC] + (1.571 * CO) + CO2 + (298 * N2O) + (25 * CH4)

Ethanol - 40 CFR 600.113-12(I)(2)

 CREE
 40 CFR 600.113-12(l)(2)(i)
 = [(CWF / 0.273) * HC] + (1.571 * CO) + (1.374 * CH3OH) + (1.466 * HCHO) + (1.911 * C2H5OH) + (1.998 * C2H4O) + CO2

 OptCREE
 40 CFR 600.113-12(l)(2)(ii)
 = [(CWF / 0.273) * NMHC] + (1.571 * CO) + (1.374 * CH3OH) + (1.466 * HCHO) + (1.911 * C2H5OH) + (1.998 * C2H4O) + CO2 + (298 * N2O) + (25 * CH4)

Notes:

For HC, use the Verify name of HC-TOTAL Methane = CH4 Methanol = CH3OH Ethanol = C2H5OH Formaldehyde = HCHO Acetaldehyde = H3C2HO or C2H4O

Items in bold above are the items that are different between the CREE and Opt-CREE equations for each fuel type.

For each emission name, use the rounded test result (CO2 rounded to whole number) with the 120k DF applied if applicable (if aged components there may not be DFs). The final CREE/Opt-CREE is then rounded to a whole number.

Target Fuel Economy and Target CO2 for a footprint are based on the following equations:

| 49 CFR 53 | 1.5 8 | \$ 533.5, CAFE Standards | 4 | 9 CF | R 531.5 & 533.5, CAFE Standards | 86 CFR 1 | 818-12 | 2, GHG Standards |
|-------------------|-------|---------------------------------------|-----------|------|---|------------------------|----------|----------------------------------|
| Reformed | | 1 | Reformed | - | 1 | Target CO ₂ | _ | A x Footprint + B |
| Target FE | = | $1 + (1 - 1) = e^{(Footprint - C)/D}$ | Target FE | _ | Min (Max (C x Footprint + D, $\frac{1}{A}$), $\frac{1}{B}$) | (2012 +) | - | A X POOLPHILL T B |
| (Truck 2008-2011) | | A B A $1 + e^{(Footprint - C)/D}$ | (2012 +) | | | | | |
| (Car 2011 only) | | Per regulation: e = 2.718 | | | | If Footprint < | <= 41 \$ | SqFt, Target CO ₂ = C |
| | | | | | | If Footprint | > 56 S | SqFt, Target CO ₂ = D |

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

| Date of Change | 2011-May-13 Description | Data Element | Version # | Enhancement to Baseline (Y/N) | Comments |
|----------------|---|--------------|-----------|-------------------------------------|--|
| CAFÉ | | | | | Items in yellow may require analysis to confirm baseline enhancements that may affect project cost and/or timeline |
| 11/23/2010 | Added "/GHG" to multiplicity column | CA-3 | | N | |
| 11/23/2010 | Added "/GHG" to multiplicity column | CA-0 | | N | |
| 11/23/2010 | Added "/GHG" to multiplicity column | CA-1 | | N | |
| 11/23/2010 | Changed DE name from "CAFE Compliance Category to "CAFE/GHG Compliance Category"; added "/GHG" to description, multiplicity; removed "DP = Domestic Passenger Vehicles IP = Import Passenger Vehicles" from allowed values and added "PV = Passenger Vehicles"; | CA-4 | | N | |
| 11/23/2010 | New DE "GHG Exempt Indicator" | CA-127 | | | |
| 11/23/2010 | New DE " GHG Calculation Method" | CA-128 | | | |
| 11/23/2010 | New DE "For OCREE calculations, should N2O emissions always default to .010gpm?" | CA-129 | | | |
| 11/23/2010 | Added "/GHG" to element name, description, multiplicity | CA-4.5 | | Ν | |
| 11/23/2010 | New DE "EPA Calculated Official Model Year GHG Production Units" | CA-130 | | | |
| 11/23/2010 | New DE "EPA Calculated Official Model Year GHG TLAAS Production Units" | CA-131 | | | |
| 11/23/2010 | Changed DE name from "EPA Official Model Year Truck CAFE Production Units" to "EPA Calculated Official Model Year Truck CAFE Production Units" ; Added new BR "Required if CAFE/GHG Compliance Category = Light Truck" | CA-53 | | N | |
| 11/23/2010 | Changed DE name from "EPA Official Model Year Domestic Passenger Vehicle CAFE Production Units" to "EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units" ; Added BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-54 | | N | |
| 11/23/2010 | Changed DE name from "EPA Official Model Year Import Passenger Vehicle CAFE Production Units" to "EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units"; Added new BR: Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-55 | | N | |
| 11/23/2010 | New DE "Manufacturer Calculated Official Model Year GHG Production Units" | CA-132 | | | |
| 11/23/2010 | New DE "Manufacturer Calculated Official Model Year GHG TLAAS Production Units" | CA-133 | | | |

| 11/23/2010 | Changed DE name from "Manufacturer Official Model Year Truck CAFE Production Units" to "Manufacturer Calculated Official Model Year Truck CAFE Production Units"; Added: Parent's name, XML Tag, new BR: "Required if CAFE/GHG Compliance Category = Light Truck" | CA-50 | Ν | |
|------------|---|--------|---|--|
| 11/23/2010 | Changed DE Name from "Manufacturer Official Model Year Domestic Passenger Vehicle CAFE Production Units" to "Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units"; Added Parent's name, XML Tag, new BR: Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-51 | Ν | |
| 11/23/2010 | Changed DE Name from "Manufacturer Official Model Year Import Passenger Vehicle CAFE Production Units" to "Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units"; Added Parent's name, XML Tag, new BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-52 | Ν | |
| 11/23/2010 | New DE "EPA Calculated Baseline Average GHG Unrounded 4 Decimal" | CA-134 | | |
| 11/23/2010 | New DE " EPA Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal" | CA-135 | | |
| 11/23/2010 | Changed DE name from "EPA Baseline Truck CAFE Unrounded 4 Decimal" to "EPA Calculated Baseline Truck CAFE Unrounded 4 Decimal"; Changed min. value from 1 to 0, new BR: "Required if CAFE/GHG Compliance Category = Light Truck" | CA-59 | Ν | |
| 11/23/2010 | Changed DE name from "EPA Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added new BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-60 | Ν | |
| 11/23/2010 | Changed DE name from "EPA Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal; new BR added: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-61 | N | |
| 11/23/2010 | New DE "EPA Calculated Baseline Average GHG Rounded Whole Number" | CA-136 | | |
| 11/23/2010 | New DE "EPA Calculated Baseline Average GHG TLAAS Rounded Whole Number" | CA-137 | | |

| 11/23/2010 | Changed DE name from "EPA Baseline Truck CAFE Rounded 1 Decimal" to "EPA Calculated Baseline Truck CAFE Rounded 1 Decimal"; Changed Basic Data Type from "N(4,1) to N(5,1)"; Changed Min Value from 1 to 0; Added "Light Duty" to Industry; New BR: "Required if CAFE/GHG Compliance Category = Light Truck" | CA-63 | Ν | |
|------------|--|--------|---|--|
| 11/23/2010 | Changed DE name from "EPA Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-66 | Ν | |
| 11/23/2010 | Changed DE name from "EPA Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-67 | Ν | |
| 11/23/2010 | Changed DE name from "EPA Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-70 | Ν | |
| 11/23/2010 | Changed DE name from "EPA Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-71 | N | |
| 11/23/2010 | New DE "Manufacturer Calculated Baseline Average GHG Unrounded 4 Decimal" | CA-138 | | |
| 11/23/2010 | New DE "Manufacturer Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal" | CA-139 | | |
| 11/23/2010 | Changed DE name from "Manufacturer Baseline Truck CAFE Unrounded 4 Decimal" to "Manufacturer Calculated Baseline Truck CAFE Unrounded 4 Decimal"; Added Parent's Name, XML Tag; Changed min. value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck" | CA-56 | Ν | |

| 11/23/2010 | Changed DE name from "Manufacturer Baseline Truck CAFE Unrounded 4 Decimal" to "Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-57 | N | |
|------------|--|--------|---|--|
| 11/23/2010 | Changed DE name form "Manufacturer Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-58 | N | |
| 11/23/2010 | New DE "Manufacturer Calculated Baseline Average GHG Rounded Whole Number" | CA-140 | | |
| 11/23/2010 | New DE "Manufacturer Calculated Baseline Average GHG TLAAS Rounded Whole Number" | CA-141 | | |
| 11/23/2010 | Changed DE name from "Manufacturer Baseline Truck CAFE Rounded 1 Decimal" to "Manufacturer Calculated Baseline Truck CAFE Rounded 1 Decimal"; Added Parent's Name, XML Tag; Changed min. value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck" | CA-62 | N | |
| 11/23/2010 | Changed DE name from "Manufacturer Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-64 | N | |
| 11/23/2010 | Changed DE name from "Manufacturer Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; | CA-65 | N | |
| 11/23/2010 | Changed DE name from "Manufacturer Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-68 | N | |

| 11/23/2010 | Changed DE name from "Manufacturer Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-69 | 1 | N | |
|------------|---|--------|---|---|--|
| 11/23/2010 | New DE "EPA Calculated Final Average GHG Unrounded 4 Decimal" | CA-142 | | | |
| 11/23/2010 | New DE "EPA Calculated Final Average GHG TLAAS Unrounded 4 Decimal" | CA-143 | | | |
| 11/23/2010 | Changed DE name from "EPA Final Truck CAFE Unrounded 4 Decimal" to "EPA Calculated Final Truck CAFE Unrounded 4 Decimal"; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck" | CA-75 | 1 | N | |
| 11/23/2010 | Changed DE name from "EPA Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-76 | 1 | N | |
| 11/23/2010 | Changed DE name from "EPA Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-77 | 1 | N | |
| 11/23/2010 | New DE "EPA Calculated Final Average GHG Rounded Whole Number" | CA-144 | | | |
| 11/23/2010 | New DE "EPA Calculated Final Average GHG TLAAS Rounded Whole Number" | CA-145 | | | |
| 11/23/2010 | Changed DE name from "EPA Final Truck CAFE Rounded 1 Decimal" to "EPA Calculated Final Truck CAFE Rounded 1 Decimal"; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck" | CA-79 | ٢ | N | |
| 11/23/2010 | Changed DE name from "EPA Final Domestic Passenger Vehicle CAFE Unrounded Test Prodedure Adjusted 4 Decimal" to "EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Test Prodedure Adjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-82 | 1 | N | |
| 11/23/2010 | Changed DE name from "EPA Final Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to " EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-83 | ١ | N | |

| Changed DE name from "EPA Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-86 | | N | |
|--|--|---|--|--|
| Changed DE name from "EPA Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-87 | | N | |
| New DE "Manufacturer Calculated Final Average GHG Unrounded 4 Decimal" | CA-146 | | | |
| New DE "Manufacturer Calculated Final Average GHG TLAAS Unrounded 4 Decimal" | CA-147 | | | |
| Changed DE name from "Manufacturer Final Truck CAFE Unrounded 4 Decimal" to "Manufacturer Calculated Final Truck CAFE Unrounded 4 Decimal"; Added Parent's Name, XML Tag; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck" | CA-72 | | Ν | |
| Changed DE name from "Manufacturer Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-73 | | Ν | |
| Changed DE name from "Manufacturer Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "Manufacturer Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-74 | | Ν | |
| New DE "Manufacturer Calculated Final Average GHG Rounded Whole Number" | CA-148 | | | |
| New DE "Manufacturer Calculated Final Average GHG TLAAS Rounded Whole Number" | CA-149 | | | |
| New DE "Manufacturer Calculated Final Truck CAFE Rounded 1 Decimal"; | CA-150 | | | this DE replaced CA-78 from the previous spreadsheet |
| Changed DE name from "Manufacturer Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal" to "Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-80 | | Ν | |
| | Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" Changed DE name from "EPA Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" New DE "Manufacturer Calculated Final Average GHG Unrounded 4 Decimal" New DE "Manufacturer Calculated Final Average GHG TLAAS Unrounded 4 Decimal" New DE "Manufacturer Calculated Final Average GHG TLAAS Unrounded 4 Decimal" New DE "Manufacturer Calculated Final Average GHG TLAAS Unrounded 4 Decimal" New DE "Manufacturer Calculated Final Average GHG TLAAS Unrounded 4 Decimal" New DE "Manufacturer Calculated Final Average GHG TLAAS Unrounded 4 Decimal" New DE "Manufacturer Calculated Final Truck CAFE Unrounded 4 Decimal"; Added Parent's Name, XML Tag; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck" Changed DE name from "Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" Changed DE name from "Manufacturer Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "Manufacturer Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Cate | Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal' to "EPA Calculated Final Domestic Passenger Vehicle CA-86 Carbitated Final Domestic Passenger Vehicle CA-86 Compliance Category = Passenger Vehicle CA-86 Changed DE name from "EPA Final Import Passenger Vehicle CAFE Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal'; New DE "Manufacturer Calculated Final Average CA-146 Category = Passenger Vehicle CA-146 New DE "Manufacturer Calculated Final Average CA-147 Changed DE name from "Manufacturer Final Truck CAFE Unrounded 4 Decimal" CA-147 Changed DE name from "Manufacturer Final Truck CAFE Unrounded 4 Decimal'' CA-72 XMM It Tag; Changed Min Value from 1 to 0; New Rs: "Required if CAFE/GHG Compliance Category = Light Truck" Changed DE name from "Manufacturer Final Domestic Passenger Vehicle CAFE Unrounded CA-73 Parent's Name, XML Tag; New BR: "Required if CA-73 CAFE/GHG Compliance Category = Passenger CA-74 Unadjusted 4 Decimal'', Added CA-74 Daraged DE name from "Manufacturer Final CA-74 CAFE/G | Passinger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal' to 'EPA CA-86 Calculated Final Domestic Passenger Vehicle CA-86 CA-86 CATE Rounded Test Procedure Adjusted 1 CAFE/CHG CA-86 Compliance Category = Passenger Vehicle* CA-86 CA-86 Changed DE name from 'EPA Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal' to 'EPA Calculated Final Import Passenger Vehicle CAFE CA-87 Rounded Test Procedure Adjusted 1 Decimal'; New DE Thanufacturer Calculated Final Average CA-146 CA-147 CAtagory = Passenger Vehicle* CA-147 CA-147 New DE "Manufacturer Calculated Final Average CA-147 CA-147 Changed DE name from 'Manufacturer Final Truck CAFE Unrounded 4 Decimal' Truck CAFE Unrounded 4 Decimal' CA-148 CA-72 XML Tag; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHC Compliance CA-73 Category = Light Truck* CA-73 CA-74 Changed DE name from 'Manufacturer Final CA-74 CA-73 Changed DE name from 'Manufacturer Final CA-74 CA-73 Charged DE name from 'Manufacturer Final CA-74 CA-74 | Passinger Vehicle CAFE Rounded Test Procedure Adjusted 1 Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimar': New BR: "Required if CAFE/CHG Compliance Category = Passenger Vehicle" CA-86 N Changed DE name from "EPA Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New DE "Manufacturer Calculated Final Average CA1466 CA-87 N New DE "Manufacturer Calculated Final Average CHG Unrounded 4 Decimal" CA-146 CA-147 Changed DE name from "Manufacturer Final Truck CAFE Unrounded 4 Decimal" CA-147 CA-147 Changed DE name from "Manufacturer Final Truck CAFE Unrounded 4 Decimal" CA-147 CA-147 Changed DE name from "Manufacturer Final Truck CAFE Unrounded 4 Decimal" CA-147 CA-147 Changed DE name from "Manufacturer Final Domestic Passenger Vehicle CAFE Unrounded 1 Decimal", Added Parents Name, XML Tag; New BR: "Required if CAFE Unrounded Unadjusted 4 Decimal", Added Parents Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" CA-73 N Changed DE name from "Manufacturer Final Unrounded Valei Unadjusted 4 Decimal", Added Parents Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" CA-74 N Changed DE name from "Manufacturer Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal", Added Parents Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passe |

| 11/23/2010 | Changed DE name from "Manufacturer Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal" to "Manufacturer Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-81 | Ν | |
|------------|--|--------|---|--|
| 11/23/2010 | Changed DE name from "Manufacturer Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-84 | N | |
| 11/23/2010 | Changed DE name from "Manufacturer Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "Manufacturer Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-85 | Ν | |
| 11/23/2010 | New DE "EPA Official Average GHG Grams Per Mile" | CA-151 | | |
| 11/23/2010 | New DE "EPA Official Average GHG TLAAS Grams Per Mile" | CA-152 | | |
| 11/23/2010 | Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck" | CA-91 | Ν | |
| 11/23/2010 | New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-92 | Ν | |
| 11/23/2010 | New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-93 | Ν | |
| 11/23/2010 | New DE "Manufacturer Calculated Official Average GHG Grams Per Mile" | CA-153 | | |
| 11/23/2010 | New DE "Manufacturer Calculated Official Average GHG TLAAS Grams Per Mile" | CA-154 | | |
| 11/23/2010 | Changed DE name from "Manufacturer Official Truck CAFE Miles Per Gallon" to "Manufacturer Calculated Official Truck CAFE Miles Per Gallon"; Added Parent's Name, XML Tag; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck" | CA-88 | Ν | |
| 11/23/2010 | Changed DE name from "Manufacturer Official Domestic Passenger Vehicle CAFE Miles Per Gallon" to "Manufacturer Calculated Official Domestic Passenger Vehicle CAFE Miles Per Gallon"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-89 | Ν | |

| 11/23/2010 | Changed DE name from "Manufacturer Official Import Passenger Vehicle CAFE Miles Per Gallon" to "Manufacturer Calculated Official Import Passenger Vehicle CAFE Miles Per Gallon"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle" | CA-90 | Ν | |
|------------|--|---------|---|--|
| 11/23/2010 | Noted that Parent's name and XML tag are missing | CA-11 | N | |
| 11/23/2010 | Basic data type changed to "A(12)"; change to fixed string; Min/Max lengths changed to 12 and 12; Min value changed to 4, Max value deleted; | CA-14.1 | Ν | |
| 11/23/2010 | New DE "CAFE Domestic/Import Indicator" | CA-155 | | |
| 11/23/2010 | New DE "GHG TLAAS Indicator" | CA-156 | | |
| 11/23/2010 | New DE "GHG Advanced Technology Indicator" | CA-157 | | |
| 11/23/2010 | New DE "Footprint Final Model Year GHG Production Units" | CA-158 | | |
| 11/23/2010 | New DE "EPA Calculated Footprint Target GHG Value (grams per mile)" | CA-159 | | |
| 11/23/2010 | Deleted entire DE | CA-21 | | |
| 11/23/2010 | Changed DE name from "EPA Footprint Target FE Value (miles per gallon)" to "EPA Calculated Footprint Target FE Value (miles per gallon)"; | CA-21.5 | Ν | |
| 11/23/2010 | Deleted entire DE | CA-21.7 | | |
| 11/23/2010 | New DE "Manufacturer Calculated Unrounded GHG Standard" | CA-160 | | |
| 11/23/2010 | New DE "EPA Calculated Unrounded GHG Standard" | CA-161 | | |
| 11/23/2010 | New DE "EPA Calculated Unrounded GHG Standard Discrepancy Value" | CA-162 | | |
| 11/23/2010 | New DE "EPA Calculated Final GHG Standard" | CA-163 | | |
| 11/23/2010 | New DE "Manufacturer GHG Comments" | CA-164 | | |
| 11/23/2010 | Changed Min. Value from "0.0001" to "0.0000" | CA-22 | Ν | |
| 11/23/2010 | Changed Min. Value from "0.0001" to "0.0000" | CA-22.3 | Ν | |
| 11/23/2010 | Changed Min. Value from "0.0001" to "0.0000" | CA-22.7 | N | |
| 11/23/2010 | Added Parent's name, XML tag | CA-25.1 | N | |
| 11/23/2010 | New DE "EPA Calculated Baseline Model Type City GHG Value 1 decimal" | CA-165 | | |
| 11/23/2010 | New DE "EPA Calculated Baseline Model Type Highway GHG Value 1 decimal" | CA-166 | | |
| 11/23/2010 | New DE "EPA Calculated Baseline Model Type Combined GHG Value 1 decimal" | CA-167 | | |
| 11/23/2010 | New DE "EPA Calculated Baseline Model Type Combined GHG Value Whole Number" | CA-168 | | |
| 11/23/2010 | New DE "EPA Calculated Final Model Type City GHG Value 1 decimal" | CA-169 | | |
| 11/23/2010 | New DE "EPA Calculated Final Model Type Highway GHG Value 1 decimal" | CA-170 | | |
| 11/23/2010 | New DE "EPA Calculated Final Model Type Combined GHG Value 1 decimal" | CA-171 | | |

| 11/23/2010 | New DE "EPA Calculated Final Model Type Combined GHG Value Whole Number" | CA-172 | | |
|------------|--|--------|---|--|
| 11/23/2010 | New DE "EPA Calculated Model Type GHG Production Units" | CA-173 | | |
| 11/23/2010 | New DE "EPA Calculated Baseline Base Level City GHG Value 1 decimal" | CA-174 | | |
| 11/23/2010 | New DE "EPA Calculated Baseline Base Level Highway GHG Value 1 decimal" | CA-175 | | |
| 11/23/2010 | New DE "EPA Calculated Baseline Base Level Combined GHG Value 1 decimal" | CA-176 | | |
| 11/23/2010 | New DE "EPA Calculated Final Base Level City GHG Value 1 decimal" | CA-177 | | |
| 11/23/2010 | New DE "EPA Calculated Final Base Level Highway GHG Value 1 decimal" | CA-178 | | |
| 11/23/2010 | New DE "EPA Calculated Final Base Level Combined GHG Value 1 decimal" | CA-179 | | |
| 11/23/2010 | New DE "EPA Calculated Base Level GHG Production Units" | CA-180 | | |
| 11/23/2010 | New DE "EPA Calculated Baseline Configuration City GHG Value 1 decimal" | CA-181 | | |
| 11/23/2010 | New DE "EPA Calculated Baseline Configuration Highway GHG Value 1 decimal" | CA-182 | | |
| 11/23/2010 | New DE "EPA Calculated Baseline Configuration Combined GHG Value 1 decimal" | CA-183 | | |
| 11/23/2010 | New DE "EPA Calculated Final Configuration City GHG Value 1 decimal" | CA-184 | | |
| 11/23/2010 | New DE "EPA Calculated Final Configuration Highway GHG Value 1 decimal" | CA-185 | | |
| 11/23/2010 | New DE "EPA Calculated Final Configuration Combined GHG Value 1 decimal" | CA-186 | | |
| 11/23/2010 | New DE "EPA Calculated Configuration GHG Production Units" | CA-187 | | |
| 11/23/2010 | Added DE name (missing from previous DR spreadsheet) "EPA Calculated Baseline Configuration City FE Value 4 decimal" | CA-110 | Ν | |
| 11/23/2010 | Deleted Min. and Max values; edited enumeration values; | CA-31 | Ν | |
| 11/23/2010 | New DE "EPA Calculated Baseline Subconfiguration City GHG Value 1 decimal" | CA-188 | | |
| 11/23/2010 | New DE "EPA Calculated Baseline Subconfiguration Highway GHG Value 1 decimal" | CA-189 | | |
| 11/23/2010 | New DE "EPA Calculated Final Subconfiguration City GHG Value 1 decimal" | CA-190 | | |
| 11/23/2010 | New DE "EPA Calculated Final Subconfiguration Highway GHG Value 1 decimal" | CA-191 | | |
| 11/23/2010 | New DE "EPA Calculated Subconfiguration GHG Production Units" | CA-192 | | |
| 11/23/2010 | Deleted entire DE | CA-119 | | |
| 11/23/2010 | Deleted entire DE | CA-122 | | |
| 11/23/2010 | Added Parent's name, XML tag | CA-124 | Ν | |
| 11/23/2010 | Added Parent's name, XML tag | CA-125 | Ν | |
| 11/23/2010 | Added Parent's name, XML tag | CA-126 | Ν | |
| 11/23/2010 | Added Parent's name, XML tag | CA-34 | N | |
| 11/23/2010 | New DE "Manufacturer Subconfiguration Final | CA-193 | | |
| | Model Year GHG Production Units" | OA 135 | | |

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| 11/23/2010 | Added Parent's name, XML tag | CA-32 | N | |
|--|--|--|---|--|
| | Updated all BR numbers with applicable JIRA | | | |
| 2/9/2011 | numbers | | | |
| 4/28/2011 | Hide the business rule text column | All DE's | | |
| FE Label | | | | |
| 11/23/2010 | Added Parent's name, XML tag | GL-78.2 | N | |
| 11/23/2010 | Added Parent's name, XML tag | GL-79.1 | N | |
| 11/23/2010 | Added Parent's name, XML tag | GL-79.2 | N | |
| | Added Parent's name, XML tag; Added new | | | |
| 11/23/2010 | allowed value "CS-3C = Charge Sustaining 3- cycle" | GL-79.3 | Ν | |
| 11/23/2010 | Edited allowed values field | GL-123 | N | |
| 11/23/2010 | Added "GL-130.5 continued" DE; Updated Validation rules | GL-130.5 | N | |
| 11/23/2010 | Added Parent's name, XML tag | GL-173.1 | N | |
| | Updated all BR numbers with applicable JIRA | 0211011 | | |
| 2/9/2011 | numbers | | | |
| 2/24/2011 | Added NEW GL-130.2 | GL-130.2 | N | |
| 4/13/2011 | Updated multiplicity | GL-81 | | |
| 4/13/2011 | Changed Collection Type | GL-130 | | |
| 4/13/2011 | Changed Collection Type | GL-130.5 | | |
| 4/15/2011 | Updated enumeration list from KW-HR100 to KW- HR/100 | GL-90 | | |
| 4/28/2011 | Updated the multiplicity | GL-81 | | |
| 4/28/2011 | Add 'HYD' as a new enumeration | GL-13.5.3 | | |
| 4/28/2011 | Hide the business rule text column | All DE's | | |
| 4/28/2011 | Marked as Deleted | GL-7 | | |
| 4/28/2011 | Marked as Deleted | GL-8 | | |
| 4/28/2011 | Marked as Deleted | GL-9 | | |
| Road Load | | OL-3 | | |
| 11/23/2010 | Added Parent's name | RL-1 | N | |
| 11/23/2010 | Added Parent's name, XML tag | RL-1.5 | N | |
| 11/23/2010 | Added Parent's name, XML tag | RL-1.5 RL-1.6 | N | |
| 11/23/2010 | Added Parent's name, XML tag | RL-1.0 RL-2 | N | |
| | | | | |
| 11/23/2010 | Added Parent's name | RL-3 | N | |
| 11/00/0010 | | | | |
| 11/23/2010 | Added Parent's name | RL-4 | N | |
| 11/23/2010 | Added Parent's name | RL-5 | N | |
| 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag | RL-5 RL-5.1 | N N | |
| 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag | RL-5 | N | |
| 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name; Changed max value from 100 to 99.999 | RL-5 RL-5.1 | N N | |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name; Changed max value from 100 to 99.999 Changed collection type from "assigned" to "Pre- existing" | RL-5 RL-5.1 RL-6 RL-7 RL-14 | N N N N | |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name; Changed max value from 100 to 99.999 Changed collection type from "assigned" to "Pre- existing" Added Parent's name | RL-5 RL-5.1 RL-6 RL-7 RL-14 RL-15 | N N N N N | |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name; Changed max value from 100 to 99.999 Changed collection type from "assigned" to "Pre- existing" | RL-5 RL-5.1 RL-6 RL-7 RL-14 | N N N N | |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name; Changed max value from 100 to 99.999 Changed collection type from "assigned" to "Pre- existing" Added Parent's name | RL-5 RL-5.1 RL-6 RL-7 RL-14 RL-15 | N N N N N | |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, Changed max value from 100 to 99,999 Changed collection type from "assigned" to "Pre- existing" Added Parent's name Added Parent's name Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag | RL-5 RL-5.1 RL-6 RL-7 RL-14 RL-14 RL-15 RL-16 | N N N N N N | |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name; Changed max value from 100 to 99.999 Changed collection type from "assigned" to "Pre- existing" Added Parent's name Added Parent's name, XML tag | RL-5 RL-5.1 RL-6 RL-7 RL-14 RL-15 RL-16 RL-17 | N N N N N N N N | |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, Changed max value from 100 to 99,999 Changed collection type from "assigned" to "Pre- existing" Added Parent's name Added Parent's name Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag | RL-5 RL-6 RL-7 RL-14 RL-15 RL-16 RL-16 RL-16 RL-17 RL-18 | N N N N N N N N N | |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, Changed max value from 100 to 99,999 Changed collection type from "assigned" to "Pre- existing" Added Parent's name Added Parent's name Added Parent's name Added Parent's name, XML tag | RL-5 RL-6 RL-7 RL-14 RL-15 RL-16 RL-17 RL-16 RL-17 RL-17 RL-17 | N N N N N N N N N N | |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, Changed max value from 100 to 99.999 Changed collection type from "assigned" to "Pre- existing" Added Parent's name Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name Added Parent's name, XML tag Added Parent's name Added Parent's name | RL-5 RL-6 RL-7 RL-14 RL-15 RL-16 RL-17 RL-17 RL-18 RL-19 RL-20 | N N N N N N N N N N N | |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, Changed max value from 100 to 99.999 Changed collection type from "assigned" to "Pre- existing" Added Parent's name Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name | RL-5 RL-6 RL-7 RL-14 RL-15 RL-16 RL-17 RL-18 RL-19 RL-20 RL-21 RL-22 | N N N N N N N N N N N N N N N | |
| 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, Changed max value from 100 to 99.999 Changed collection type from "assigned" to "Pre- existing" Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name Added Parent's name | RL-5 RL-6 RL-7 RL-14 RL-15 RL-16 RL-17 RL-18 RL-19 RL-20 RL-21 RL-22 RL-24 | N N N N N N N N N N N N N N N N | |
| 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, Changed max value from 100 to 99.999 Changed collection type from "assigned" to "Pre- existing" Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name Added Parent's name | RL-5 RL-6 RL-7 RL-14 RL-15 RL-16 RL-15 RL-16 RL-17 RL-18 RL-19 RL-20 RL-21 RL-22 RL-24 RL-25 | N N N N N N N N N N N N N N N N N N N | |
| 11/23/2010 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, Changed max value from 100 to 99.999 Changed collection type from "assigned" to "Pre- existing" Added Parent's name Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name Added Parent's name | RL-5 RL-6 RL-7 RL-14 RL-15 RL-16 RL-17 RL-18 RL-19 RL-20 RL-21 RL-22 RL-22 RL-24 RL-25 RL-26 | N N N N N N N N N N N N N N N N N N N | |
| 11/23/2010 | Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name, Changed max value from 100 to 99.999 Changed collection type from "assigned" to "Pre- existing" Added Parent's name Added Parent's name, XML tag Added Parent's name, XML tag Added Parent's name Added Parent's name | RL-5 RL-6 RL-7 RL-14 RL-15 RL-16 RL-15 RL-16 RL-17 RL-18 RL-19 RL-20 RL-21 RL-22 RL-24 RL-25 | N N N N N N N N N N N N N N N N N N N | |

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| 4/28/2011 | Hide the business rule text column | All DE's | | |
|-------------------------|---|----------------------|-----|--|
| Vehicle Information | | - | | |
| 12/21/2010 | Changed Min Value from 0.1 to 0.0 | VI-43.5 | N | |
| 12/22/2010 | Updated the first Validation Rule with new text | VI-11.6 | N | |
| | Updated all BR numbers with applicable JIRA | | | |
| 2/9/2011 | numbers | | | |
| 3/30/2011 | Updated description to remove the selection of invalid value of 'NA' | VI-15 | | |
| 4/18/2011 | Fixed enum values (S/T) | VI-11.2 VI-11.3 | | |
| 4/28/2011 | Added new enumeration: 'HYD' | VI-11.1 | | |
| 4/28/2011 | Hide the business rule text column | All DE's | | |
| Test Information | | | | |
| 12/21/2010 | Modified Notes/Questions to add mapping for Test Procedures Codes 84, 85, 86 Replaced the validations rules with the new rule | TI-43 | Ν | |
| 12/21/2010 | Added new note re: Test Procedure Codes 80, 82 | TI-8 | N | |
| 12/21/2010 | Updated the first Validation Rule with new text | TI-40 | N | |
| 2/9/2011 | Updated all BR numbers with applicable JIRA numbers | | | |
| 2/9/2011 | Added new enumeration value "AS-VOLT" | TI-19 | N | |
| 2/10/2011 | Changed DE number due to duplication | TI-18.5 | Ν | This DE number was duplicated so EPA requested the new DE "Charge Depleting Range (Calculated miles)" be changed to TI-18.6.1 |
| 2/21/2011 | Added new DE for Opt-CREE | TI-19.5.1 | | Created separate DE's for CREE and Op CREE Updated BR - need to confirm text is correct |
| 2/21/2011 | Updated existing DE | TI-19.5 | | Removed Opt-CREE portion |
| 2/24/2011 | Updated BR text as it is in VERIFY-3326 | TI-19 | | |
| 2/24/2011 | Changed the DE number from TI-19.5.1 to TI- 19.6 as it is listed in schema; Added XML tag and Parent Name | TI-19.6 | Y | |
| 2/24/2011 | Updated Parent Name | TI-20.6 | | |
| 3/30/2011 | Added the Data Type Description as | TI-20.5 | | |
| 1/10/0011 | 'Enumeration' | T I 40 | | |
| 4/13/2011 | Added new BR for TI-19 | TI-19 | | |
| 4/13/2011 4/15/2011 | Added new enumeration value "NOT5C" Updated enumeration list from KW-HR100 to KW- | TI-45 TI-20.5 | | |
| 4/28/2011 | HR/100 | | | |
| 4/28/2011 Test Group | Hide the business rule text column | All DE's | | |
| 12/21/2010 | Updated Collection Type column as 'Pre-existing Data' | TG-203 | N | |
| 12/21/2010 | Updated Multiplicity column | TG-7.4 | N | İ. |
| 12/21/2010 | Updated Multiplicity column | TG-7.4.1 | N | |
| 12/21/2010 | Updated Multiplicity column | TG-7.5 | N | |
| 12/21/2010 | Updated Multiplicity column | TG-218 | N | 1 |
| 12/21/2010 | Updated Multiplicity column | TG-210 TG-219 | N | |
| 12/21/2010 | Updated Multiplicity column | TG-219 | N | |
| 12/21/2010 | Updated Multiplicity column | TG-219.1 TG-219.2 | N | |
| 12/21/2010 | Updated Multiplicity column Updated Multiplicity column | TG-219.2 TG-8.4 | N N | |
| | Updated Multiplicity column Updated Multiplicity column | | | |
| 12/21/2010 | | TG-8.5 | N | |
| 12/21/2010 | Updated Multiplicity column | TG-8.6 | N | |

| 12/21/2010 | Updated Multiplicity column | TG-219.3.1 | Ν | |
|------------|--|------------|---|--|
| 12/21/2010 | Updated Multiplicity column | TG-219.4.1 | N | |
| 12/21/2010 | Updated Multiplicity column | TG-219.4.2 | N | |
| 1/27/2011 | Updated validation rule | TG-7.7 | N | New Text: If Drive Source (TG-7.1) equals 'C' (Combustion Engine) and if more than one Fuel(s) (TG-7.3) selected is combustible (i.e., "Gasoline" (G), "Diesel" (D), "Methanol" (M), "Ethanol" (E), "Compressed Natural Gas" (CNG), "Liquified Natural Gas" (LNG), or "Liquified Petroleum Gas" (LPG)), and optional for "Hydrogen" (H), then Multiple Fuel Combustion - Separate or Together (TG-7.7) is required. Otherwise, it is not allowed. |
| 1/27/2011 | Updated validation rule | TG-7.5 | N | New Text: If more than one Fuel(s) (TG- 7.3) is selected for the Test Group when Drive Source (TG-7.1) is 'C' (Combustion Engine), and if model year is greater than or equal to 2012, then CREE Weighting Factor for Dual/Multiple Fuel Vehicles (TG 7.5) is required for each fuel. Otherwise, i is not allowed. |
| 2/9/2011 | Updated all BR numbers with applicable JIRA numbers | | | |
| 2/9/2011 | Added new data element | TG-217.1 | | |
| 2/9/2011 | Added new enumeration value "AS-VOLT" | TG-225 | | |
| 2/21/2011 | Created new DE for Opt-CREE | TG-8.4.1 | | |
| 2/21/2011 | Updated DE | TG-8.4 | | Removed Opt-CREE |
| 2/23/2011 | Created new DE for Opt-CREE | TG-8.5.1 | | |
| 2/23/2011 | Updated DE | TG-8.5 | | Removed Opt-CREE |
| 2/23/2011 | Created new DE for Opt-CREE | TG-8.6.1 | | |
| 2/23/2011 | Updated DE | TG-8.6 | | Removed Opt-CREE |
| 2/24/2011 | Updated Required Field to FALSE | TG-216.7 | | |
| 2/24/2011 | Updated Required Field to FALSE | TG-32.5 | | |
| 2/24/2011 | Updated Required Field to FALSE | TG-32.6 | | |
| 2/24/2011 | Updated XML Tag | TG-8.4 | | |
| 2/24/2011 | Added new XML Tag and Parent Name | TG-8.4.1 | | |
| 2/24/2011 | Updated XML Tag and Parent Name | TG-8.5 | | |
| 2/24/2011 | Updated XML Tag and Parent Name | TG-8.6 | | |
| 2/24/2011 | Added new XML Tag and Parent Name | TG-8.5.1 | | |
| 2/24/2011 | Added new XML Tag and Parent Name | TG-8.6.1 | | |
| | Updated the Enumeration List, Applicable | | | |
| 2/28/2011 | Business Rules, and English Validation Rules | TG-209 | | |
| | column | | | |
| 2/28/2011 | Updated the Enumeration List, Applicable Business Rules, and English Validation Rules column | TG-225 | | |
| 3/3/2011 | Added new business rules created based on the Group business rules | Many DE's | | |
| 3/30/2011 | Corrected the XML tag | TG-7.9 | | |
| 3/30/2011 | Added the Allowed Voluce (serve as TO 00.4) | TG-217.1 | | |
| 3/30/2011 | Added the Allowed Values (same as TG-204) | 16-217.1 | | |

| ed Value to remove 'COLD' | | | | |
|--------------------------------|---------------|--|---|------|
| | TG-203 | | | |
| type from A(3) to A(1) as 7209 | TG-7.4.1 | | | |
| BRs | All DE's | | | |
| S/T) | TG-7.6 TG 7.7 | | | |
| tion: 'HYD' | TG-7.3 | | | |
| le text column | All DE's | | | |
| | | | | |
| pers with applicable JIRA | | | | |
| le text column | All DE's | | | |
| | | | | |
| pers with applicable JIRA | | | | |
| ed the XML tag | DI-25.1 | | | |
| le text column | All DE's | | | |
| | | | | |
| pers with applicable JIRA | | | | |
| le text column | All DE's | | | |
| | | | | |
| pers with applicable JIRA | | | | |
| ration value "AS-VOLT" | SI-59 | | | |
| alidation Rule based on | | | | |
| | SI-59 | | | |
| le text column | All DE's | | | |
| | | | | |
| pers with applicable JIRA | | | | |
| le text column | All DE's | | | |
| | | | | |
| pers with applicable JIRA | | | | |
| ag | EV-3 | | | |
| S/T) | EV-3.6 | | | |
| tion: 'HYD' | EV-3.5 | | | |
| le text column | All DE's | | | |
| | | | | |
| pers with applicable JIRA | | | | |
| le text column | All DE's | | | |
| | | | | |
| pers with applicable JIRA | | | | |
| ration value "AS-VOLT" | IT-28 | | | |
| le text column | All DE's | | | |
| | | | | |
| pers with applicable JIRA | | | | |
| le text column | All DE's | | | |
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United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality Date 2011-May-13

Summary of Changes Made to GHG Data Requirements since 09/09/2010

| Date | Dataset | Data Element | Data Element Name | Description of Change |
|----------------------------|---------|--------------|--|-----------------------|
| 11/23/2010 | CAFÉ | CA-127 | GHG Exempt Indicator | New Data Element |
| 11/23/2010 | CAFÉ | CA-128 | GHG Calculation Method | New Data Element |
| 11/23/2010 | CAFÉ | CA-129 | For OCREE calculations, should N2O emissions always default to .010gpm? | New Data Element |
| 11/23/2010 | CAFÉ | CA-130 | EPA Calculated Official Model Year GHG Production Units | New Data Element |
| 11/23/2010 | CAFÉ | CA-131 | EPA Calculated Official Model Year GHG TLAAS Production Units | New Data Element |
| 11/23/2010 | CAFÉ | CA-132 | Manufacturer Calculated Official Model Year GHG Production Units | New Data Element |
| 11/23/2010 | CAFÉ | CA-133 | Manufacturer Calculated Official Model Year GHG TLAAS Production Units | New Data Element |
| 11/23/2010 | CAFÉ | CA-134 | EPA Calculated Baseline Average GHG Unrounded 4 Decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-135 | EPA Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-136 | EPA Calculated Baseline Average GHG Rounded Whole Number | New Data Element |
| 11/23/2010 | CAFÉ | CA-137 | EPA Calculated Baseline Average GHG TLAAS Rounded Whole Number | New Data Element |
| 11/23/2010 | CAFÉ | CA-138 | Manufacturer Calculated Baseline Average GHG Unrounded 4 Decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-139 | Manufacturer Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-140 | Manufacturer Calculated Baseline Average GHG Rounded Whole Number | New Data Element |
| 11/23/2010 | CAFÉ | CA-141 | Manufacturer Calculated Baseline Average GHG TLAAS Rounded Whole Number | New Data Element |
| 11/23/2010 | CAFÉ | CA-142 | EPA Calculated Final Average GHG Unrounded 4 Decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-143 | EPA Calculated Final Average GHG TLAAS Unrounded 4 Decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-144 | EPA Calculated Final Average GHG Rounded Whole Number | New Data Element |
| 11/23/2010 | CAFÉ | CA-145 | EPA Calculated Final Average GHG TLAAS Rounded Whole Number | New Data Element |
| 11/23/2010 | CAFÉ | CA-146 | Manufacturer Calculated Final Average GHG Unrounded 4 Decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-147 | Manufacturer Calculated Final Average GHG TLAAS Unrounded 4 Decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-148 | Manufacturer Calculated Final Average GHG Rounded Whole Number | New Data Element |
| 11/23/2010 | CAFÉ | CA-149 | Manufacturer Calculated Final Average GHG TLAAS Rounded Whole Number | New Data Element |
| 11/23/2010 420d11003 xl | CAFÉ | CA-150 | Manufacturer Calculated Final Truck CAFE Rounded 1 Decimal | New Data Element |

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| 11/23/2010 | CAFÉ | CA-151 | EPA Official Average GHG Grams Per Mile | New Data Element |
|------------|------|---------|---|------------------|
| 11/23/2010 | CAFÉ | CA-152 | EPA Official Average GHG TLAAS Grams Per Mile | New Data Element |
| 11/23/2010 | CAFÉ | CA-153 | Manufacturer Calculated Official Average GHG Grams Per Mile | New Data Element |
| 11/23/2010 | CAFÉ | CA-154 | Manufacturer Calculated Official Average GHG TLAAS Grams Per Mile | New Data Element |
| 11/23/2010 | CAFÉ | CA-155 | CAFE Domestic/Import Indicator | New Data Element |
| 11/23/2010 | CAFÉ | CA-156 | GHG TLAAS Indicator | New Data Element |
| 11/23/2010 | CAFÉ | CA-157 | GHG Advanced Technology Indicator | New Data Element |
| 11/23/2010 | CAFÉ | CA-158 | Footprint Final Model Year GHG Production Units | New Data Element |
| 11/23/2010 | CAFÉ | CA-159 | EPA Calculated Footprint Target GHG Value (grams per mile) | New Data Element |
| 11/23/2010 | CAFÉ | CA-160 | Manufacturer Calculated Unrounded GHG Standard | New Data Element |
| 11/23/2010 | CAFÉ | CA-161 | EPA Calculated Unrounded GHG Standard | New Data Element |
| | CAFÉ | CA-162 | EPA Calculated Unrounded GHG Standard | |
| 11/23/2010 | | 0.4.400 | Discrepancy Value | New Data Element |
| 11/23/2010 | CAFÉ | CA-163 | EPA Calculated Final GHG Standard | New Data Element |
| 11/23/2010 | CAFÉ | CA-164 | Manufacturer GHG Comments | New Data Element |
| 11/23/2010 | CAFÉ | CA-165 | EPA Calculated Baseline Model Type City GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-166 | EPA Calculated Baseline Model Type Highway GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-167 | EPA Calculated Baseline Model Type Combined GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-168 | EPA Calculated Baseline Model Type Combined GHG Value Whole Number | New Data Element |
| 11/23/2010 | CAFÉ | CA-169 | EPA Calculated Final Model Type City GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-170 | EPA Calculated Final Model Type Highway GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-171 | EPA Calculated Final Model Type Combined GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-172 | EPA Calculated Final Model Type Combined GHG Value Whole Number | New Data Element |
| 11/23/2010 | CAFÉ | CA-173 | EPA Calculated Model Type GHG Production Units | New Data Element |
| 11/23/2010 | CAFÉ | CA-174 | EPA Calculated Baseline Base Level City GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-175 | EPA Calculated Baseline Base Level Highway GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-176 | EPA Calculated Baseline Base Level Combined GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-177 | EPA Calculated Final Base Level City GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-178 | EPA Calculated Final Base Level Highway GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-179 | EPA Calculated Final Base Level Combined GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-180 | EPA Calculated Base Level GHG Production Units | New Data Element |
| 11/23/2010 | CAFÉ | CA-181 | EPA Calculated Baseline Configuration City GHG Value 1 decimal | New Data Element |
| 11/23/2010 | CAFÉ | CA-182 | EPA Calculated Baseline Configuration Highway GHG Value 1 decimal | New Data Element |

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| 11/23/2010 | CAFÉ | CA-183 | EPA Calculated Baseline Configuration Combined GHG Value 1 decimal | New Data Element |
|--|--|--|--|--|
| 11/20/2010 | 0/11 2 | | EPA Calculated Final Configuration City GHG Value 1 | New Bala Element |
| 11/23/2010 | CAFÉ | CA-184 | decimal | New Data Element |
| | | | EPA Calculated Final Configuration Highway GHG | |
| 11/23/2010 | CAFÉ | CA-185 | Value 1 decimal | New Data Element |
| | | 0.1.100 | EPA Calculated Final Configuration Combined GHG | |
| 11/23/2010 | CAFÉ | CA-186 | Value 1 decimal | New Data Element |
| | , | CA-187 | | |
| 11/23/2010 | CAFÉ | 6/110/ | EPA Calculated Configuration GHG Production Units | New Data Element |
| | | CA-188 | EPA Calculated Baseline Subconfiguration City GHG | |
| 11/23/2010 | CAFÉ | 6/1100 | Value 1 decimal | New Data Element |
| | _ | CA-189 | EPA Calculated Baseline Subconfiguration Highway | |
| 11/23/2010 | CAFÉ | 07-103 | GHG Value 1 decimal | New Data Element |
| | | CA-190 | EPA Calculated Final Subconfiguration City GHG Value | |
| 11/23/2010 | CAFÉ | CA-190 | 1 decimal | New Data Element |
| | | CA-191 | EPA Calculated Final Subconfiguration Highway GHG | |
| 11/23/2010 | CAFÉ | CA-191 | Value 1 decimal | New Data Element |
| | | 04.400 | EPA Calculated Subconfiguration GHG Production | |
| 11/23/2010 | CAFÉ | CA-192 | Units | New Data Element |
| | | 0.4.402 | Manufacturer Subconfiguration Final Model Year GHG | |
| 11/23/2010 | CAFÉ | CA-193 | Production Units | New Data Element |
| | | | | otal New CAFÉ DE's: n=66 |
| Date | Dataset | Data Element | Data Element Name | Description of Change |
| 11/23/2010 | CAFÉ | CA-3 | Process Code | Edit to DE Feature(s) |
| 11/23/2010 | CAFÉ | CA-0 | Manufacturer Code | Edit to DE Feature(s) |
| 11/23/2010 | CAFÉ | CA-1 | Model Year | Edit to DE Feature(s) |
| 11/23/2010 | CAFÉ | CA-4 | CAFE/GHG Compliance Category | Edit to DE Name & Feature(s) |
| 11/23/2010 | | | CAFE/GHG Final Status Indicator | Edit to DE Name & Feature(s) |
| | CAFE | CA-4.5 | | |
| 11/20/2010 | CAFÉ | CA-4.5 | | |
| | - | CA-4.5 CA-53 | EPA Calculated Official Model Year Truck CAFE | |
| 11/23/2010 | CAFE | CA-53 | EPA Calculated Official Model Year Truck CAFE Production Units | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic | Edit to DE Name & Feature(s) |
| | - | CA-53 CA-54 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units | |
| 11/23/2010 11/23/2010 | CAFÉ | CA-53 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-53 CA-54 CA-55 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units | Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ | CA-53 CA-54 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 | CAFÉ | CA-53 CA-54 CA-55 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ | CA-53 CA-54 CA-55 CA-50 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ CAFÉ | CA-53 CA-54 CA-55 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ | CA-53 CA-54 CA-55 CA-50 CA-51 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ | CA-53 CA-54 CA-55 CA-50 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ CAFÉ | CA-53 CA-54 CA-55 CA-50 CA-51 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ | CA-53 CA-54 CA-55 CA-50 CA-51 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units EPA Calculated Baseline Truck CAFE Unrounded 4 | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ | CA-53 CA-54 CA-55 CA-50 CA-51 CA-52 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units EPA Calculated Baseline Truck CAFE Unrounded 4 Decimal | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ | CA-53 CA-54 CA-55 CA-50 CA-51 CA-52 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units EPA Calculated Baseline Truck CAFE Unrounded 4 Decimal EPA Calculated Baseline Domestic Passenger Vehicle | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ | CA-53 CA-54 CA-55 CA-50 CA-51 CA-52 CA-59 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units EPA Calculated Baseline Truck CAFE Unrounded 4 Decimal EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ | CA-53 CA-54 CA-55 CA-50 CA-51 CA-52 CA-59 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units EPA Calculated Baseline Truck CAFE Unrounded 4 Decimal EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal EPA Calculated Baseline Import Passenger Vehicle | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ | CA-53 CA-54 CA-55 CA-50 CA-51 CA-52 CA-59 CA-60 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units EPA Calculated Baseline Truck CAFE Unrounded 4 Decimal EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |
| 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 11/23/2010 | CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ CAFÉ | CA-53 CA-54 CA-55 CA-50 CA-51 CA-52 CA-59 CA-60 | EPA Calculated Official Model Year Truck CAFE Production Units EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Truck CAFE Production Units Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units EPA Calculated Baseline Truck CAFE Unrounded 4 Decimal EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal EPA Calculated Baseline Import Passenger Vehicle | Edit to DE Name & Feature(s) Edit to DE Name & Feature(s) |

| 11/23/2010 | CAFÉ | CA-66 | EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal | Edit to DE Name & Feature(s) |
|------------|------|-------|--|------------------------------|
| 11/23/2010 | CAFÉ | CA-67 | EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-70 | EPA Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-71 | EPA Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-56 | Manufacturer Calculated Baseline Truck CAFE Unrounded 4 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-57 | Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-58 | Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-62 | Manufacturer Calculated Baseline Truck CAFE Rounded 1 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-64 | Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-65 | Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-68 | Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-69 | Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-75 | EPA Calculated Final Truck CAFE Unrounded 4 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-76 | EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-77 | EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-79 | EPA Calculated Final Truck CAFE Rounded 1 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-82 | EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Test Prodedure Adjusted 4 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-83 | EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-86 | EPA Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-87 | EPA Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-72 | Manufacturer Calculated Final Truck CAFE Unrounded 4 Decimal | Edit to DE Name & Feature(s) |

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| 11/23/2010 | CAFÉ | CA-73 | Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal | Edit to DE Name & Feature(s) |
|-----------------|--------------|--------------------|---|--|
| 11/20/2010 | 0/112 | + | Manufacturer Calculated Final Import Passenger | |
| 11/23/2010 | CAFÉ | CA-74 | Vehicle CAFE Unrounded Unadjusted 4 Decimal | Edit to DE Name & Feature(s) |
| | | | Manufacturer Calculated Final Domestic Passenger | |
| | | CA-80 | Vehicle CAFE Rounded Test Procedure Adjusted 4 | |
| 11/23/2010 | CAFÉ | | Decimal | Edit to DE Name & Feature(s) |
| | | | Manufacturer Calculated Final Import Passenger | · · · |
| | | CA-81 | Vehicle CAFE Rounded Test Procedure Adjusted 4 | |
| 11/23/2010 | CAFÉ | | Decimal | Edit to DE Name & Feature(s) |
| | | 1 | Manufacturer Calculated Final Domestic Passenger | |
| | | CA-84 | Vehicle CAFE Rounded Test Procedure Adjusted 1 | |
| 11/23/2010 | CAFÉ | | Decimal | Edit to DE Name & Feature(s) |
| | | | Manufacturer Calculated Final Import Passenger | |
| | | CA-85 | Vehicle CAFE Rounded Test Procedure Adjusted 1 | |
| 11/23/2010 | CAFÉ | 0,700 | Decimal | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-91 | EPA Official Truck CAFE Miles Per Gallon | Edit to DE Feature(s) |
| 11/20/2010 | O/II E | | EPA Official Domestic Passenger Vehicle CAFE Miles | |
| 11/23/2010 | CAFÉ | CA-92 | Per Gallon | Edit to DE Feature(s) |
| 11/23/2010 | OALE | | EPA Official Import Passenger Vehicle CAFE Miles Per | |
| 11/23/2010 | CAFÉ | CA-93 | Gallon | Edit to DE Feature(s) |
| 11/23/2010 | CAFE | | Manufacturer Calculated Official Truck CAFE Miles Per | Edit to DE Feature(s) |
| 11/23/2010 | CAFÉ | CA-88 | Gallon | Edit to DE Nome & Eastura(a) |
| 11/23/2010 | | | Manufacturer Calculated Official Domestic Passenger | Edit to DE Name & Feature(s) |
| 44/00/0040 | CAFÉ | CA-89 | | |
| 11/23/2010 | | | Vehicle CAFE Miles Per Gallon | Edit to DE Name & Feature(s) |
| 4.4.100.100.4.0 | | CA-90 | Manufacturer Calculated Official Import Passenger | |
| 11/23/2010 | CAFÉ | | Vehicle CAFE Miles Per Gallon | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-11 | CAFE Standard | Edit to DE Feature(s) |
| 11/23/2010 | CAFÉ | CA-14.1 | Test Group | Edit to DE Feature(s) |
| 11/23/2010 | CAFÉ | CA-21.5 | EPA Calculated Footprint Target FE Value (miles per gallon) | Edit to DE Name & Feature(s) |
| 11/23/2010 | CAFÉ | CA-22 | EPA Calculated Unrounded Reformed CAFE Standard | Edit to DE Feature(s) |
| 11/23/2010 | CAFÉ | CA-22.3 | Calculated Unrounded Reformed CAFE Standard | Edit to DE Feature(s) |
| 11/23/2010 | CAFÉ | CA-22.7 | EPA Calculated Final Reformed CAFE Standard | Edit to DE Feature(s) |
| 11/23/2010 | CAFÉ | CA-22.7 CA-25.1 | Carline Manufacturer Code | Edit to DE Feature(s) |
| 11/23/2010 | UAFE | | EPA Calculated Baseline Configuration City FE Value 4 | Euli to DE reature(s) |
| 11/23/2010 | CAFÉ | CA-110 | decimal | Edit to DE name |
| 11/23/2010 | CAFE | CA 24 | Equivalent Test Weight (ETW) | Edit to DE hame Edit to DE Feature(s) |
| 11/23/2010 | CAFE | CA-31 CA-124 | Manufacturer Code | Edit to DE Feature(s) |
| 11/23/2010 | CAFE | CA-124 CA-125 | Division Code | |
| 11/23/2010 | CAFE CAFÉ | CA-125 CA-126 | Carline Code | Edit to DE Feature(s) |
| | CAFE | | | Edit to DE Feature(s) |
| 11/23/2010 | CAFE | CA-34 | Test Group | Edit to DE Feature(s) |
| 11/23/2010 | CAFÉ | CA-32 | Manufacturer Subconfiguration Final Model Year FE | |
| | | | Production Units | Edit to DE Feature(s) |
| | | | | Total Edited CAFÉ DE's: n=61 |
| Date | Dataset | Data Element | Data Element Name | Description of Change |
| 11/23/2010 | CAFÉ | CA-21 | Manufacturer Calculated Footprint Target FE Value | |
| | | | (miles per gallon) | Deleted Data Element |
| | 4 | CA-21.7 | EPA Calculated Footprint Target FE Discrepancy | |
| 11/23/2010 | CAFÉ | 0 | Value | Deleted Data Element |

| | | | EPA Calculated Baseline Subconfiguration Combined | |
|------------|-----------|-------------------------|---|-----------------------------------|
| 11/23/2010 | CAFÉ | CA-119 | FE Value 4 decimal | Deleted Data Element |
| 11/23/2010 | | | EPA Calculated Final Subconfiguration Combined FE | |
| 11/23/2010 | CAFÉ | CA-122 | Value 4 decimal | Deleted Data Element |
| 11/20/2010 | | | | Total Deleted CAFÉ DE's: n=4 |
| Date | Dataset | Data Element | Data Element Name | Description of Change |
| 11/23/2010 | FE Label | GL-78.2 | Model Type Descriptor | Edit to DE Feature(s) |
| | | GL-79.1 | 5 Cycle Hybrid Fuel Economy Label Calculation | |
| 11/23/2010 | FE Label | | Approach | Edit to DE Feature(s) |
| | | 0 1 - 1 - | Charge Depleting Fuel Economy Label Calculation | |
| 11/23/2010 | FE Label | GL-79.2 | Approach | Edit to DE Feature(s) |
| | | 01 70 0 | Charge Sustaining Fuel Economy Label Calculation | |
| 11/23/2010 | FE Label | GL-79.3 | Approach | Edit to DE Feature(s) |
| 11/23/2010 | FE Label | GL-123 | Equivalent Test Weight (ETW) | Edit to DE Feature(s) |
| 11/23/2010 | FE Label | GL-130.5 | Test 5-Cycle Category | Edit to DE Feature(s) |
| | | 01 170 1 | | |
| 11/23/2010 | FE Label | GL-173.1 | Manufacturer-Calculated Gas Guzzler Mile Per Gallon | Edit to DE Feature(s) |
| | | | | Total Edited FE Label DE's: n=7 |
| Date | Dataset | Data Element | Data Element Name | Description of Change |
| 11/23/2010 | Road Load | RL-1 | Process Code | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-1.5 | Road Load Index | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-1.6 | Model Year | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-2 | FE Label Model Type Index | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-3 | FE Label Subconfiguration Index | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-4 | Test Group | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-5 | Engine Code | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-5.1 | Equivalent Engine Code(s) | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-6 | In-Use Engine Code Decoder | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-7 | Displacement | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-14 | Transmission as listed in the FE Guide | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-15 | Axle Ratio | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-16 | Rim and tire size | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-17 | Tire Type | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-18 | Tire Manufacturer | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-19 | N/V Ratio | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-20 | Curb Weight | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-21 | ETW | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-22 | Manufacturer-Calculated Total Road Load Horsepower | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-24 | Target Coefficient A (F0) (lbf) | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-25 | Target Coefficient B (F1) (lbf/mph) | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-26 | Target Coefficient C (F2) (lbf/mph**2) | Edit to DE Feature(s) |
| 11/23/2010 | Road Load | RL-27 | Road Load Determination Method | Edit to DE Feature(s) |
| | | | | Total Edited Road Load DE's: n=23 |