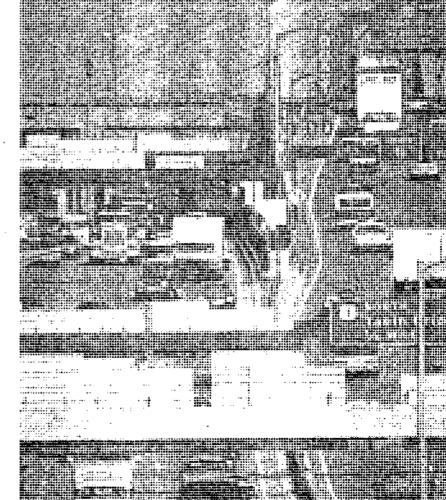
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# Reformulated Gasolina: AlMaior Step Tawani Glaanar Al



# IER GASOLINE HAS COME UR PART OF THE COUNTRY

ng no later than January 1, 1995, every time p your tank with gasoline, you will help he quality of the air you breathe. By doing become a part of one of our nation's most at strategies to reduce pollution from vehicle is.

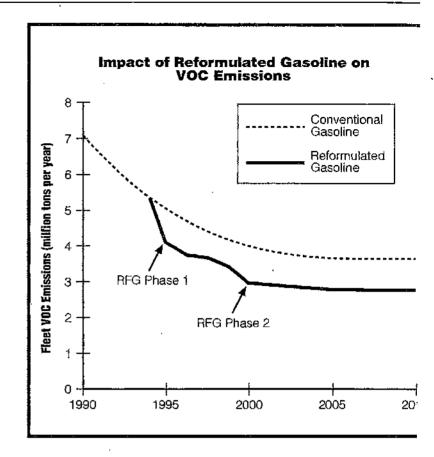
live or work in an area with continuing air problems, you'll find **cleaner, or "reford," gasoline** at your local service stations, tlated gasoline is just conventional gasoline I to burn more cleanly and not evaporate as he U.S. Environmental Protection Agency has orking cooperatively with the petroleum and ustries to make sure this new gasoline fully ne needs of the American motorist. There is you have to do. Cleaner gasoline is waiting at the pump.

iow that cleaner gas is here, use it in alth!

### NER GASOLINES PRODUCE NER AIR AND PROTECT HEALTH

er what the brand, or whether it's called lated gasoline" or "RFG," the new blend you protect your health by reducing harmful emissions of ozone (smog)-forming comand air toxics.

rmulated gasoline produces 15 to 17 nt less pollution than conventional ne, and further improvements are ted as new formulas are developed. PA estimates that nearly 1.3 million f ozone-forming emissions will be nted in the first phase of the program 1999) and that reductions will be preater during the second phase begins in the year 2000 (see the



Just as removing lead from gasoline eliminated t threat of lead poisoning by the fumes that came from automobile tailpipes, cleaner gasoline produces lead to the pollutants that create smog and a variety of a toxics.

This means there will be less smog-forming ground-level ozone to damage sensitive lung tissue and make it harder for the lungs to function. When the noxious ozone level is high, joggers, people working or exercising outdoors (or indoors with the windows open), or people with various chronic hea conditions may suffer symptoms such as chest pai coughing, and stinging eyes. Ozone exposure is especially dangerous to children, the elderly, and people with lung diseases like asthma, bronchitis and emphysema. Even younger, healthy adults ma be at risk over the long term, especially if they spe a lot of time outdoors in an area with high ozone levels. Smog problems can especially be a proble in warm-weather months because heat and sunligh along with auto emissions, contribute to its formatic cs from tailpipe emissions or gasoline so can be harmful. Some of the toxic dis in gasoline (benzene, for one) and dis created when gasoline is burned in the known or believed to cause cancer. In revenicles are estimated to account for 0% of all cancers associated with exposure es. Reformulated gasoline is produced er amounts of benzene than in previous so there is less to get into the air around us.

eformulated gasoline reduces the total to the public by reducing exposure to d air toxics.

# ENVIRONMENTAL BENEFITS SING CLEANER GASOLINES

ne levels affect plant growth and can cause to crops and forests. Reducing the amount revel ozone will help protect those parts of a re important to human survival.

### er gasoline and Yehicle

### fect engine performance?

ated gasoline will have no adverse effects a performance or the durability of engine ystem components, not even for high not engines. In fact, the nation's major autourers support — even recommend — the ormulated gasoline. If you travel to a nal gasoline area, you can fill up without to your car.

#### mileage be affected?

mally, if at all. Reformulated gasoline bygenate additives that have been used in amount of gasoline since the 1970s. ge is affected mostly by the type of engine le, driving habits, weather conditions, and

vehicle maintenance. Gasolines containing oxygenates may reduce gas mileage by 1 to 2 percent, but changing your driving habits and vehicle maintenance pattern could balance it out.

### Will reformulated gasoline affect vehicle warranties?

No. Using it will not affect either the manufacturer's general warranty or the emissions warranty. For information on warranty provisions, see your vehicle owner's manual or consult a local auto dealer.

### WHO MUST USE THIS CLEANER GASOLINE?

The Clean Air Act requires use of reformulated gasoline in those parts of the country with the worst ozone air pollution problems. Also, some areas with less serious ozone problems have elected to use it. Others may do so in the future. It is estimated that roughly one-third of all the gasoline used in the United States after January 1, 1995, will be cleaner burning, reformulated gasoline.

Beginning January 1, 1995, reformulated gasoline will be used, state-wide, in Connecticut, Delaware, Massachusetts, New Jersey, Rhode Island, and the District of Columbia.

It will also be required in portions of California, Illinois, Indiana, Kentucky, Maine, Maryland, New Hampshire, New York, Pennsylvania, Texas, Virginia, and Wisconsin. This includes the following greater metropolitan areas:

Los Angeles, CA San Diego, CA Washington, DC Chicago, IL Louisville, KY Baltimore, MD New York, NY
Pittsburgh, PA
Philadelphia, PA
Dallas - Fort Worth, T
Houston, TX
Milwaukee, WI

If you live in the areas listed above, you will automatically get this cleaner gasoline at any gas station you patronize.

#### **MPORTANT QUESTIONS**

### program affect the cost of at the pump?

ow that reformulated gasoline will cost of 5 cents more per gallon to make. Howincreases reflected at the pump will vary on local and regional market conditions stry responds to the new requirements. Trage family the increased cost should \$20 a year, a small price to pay for

#### ut using it in lawn and quipment?

es of oxygenate additives are used in id gasoline. Certain oxygenates may not ible with small lawn and garden equipes, especially older ones. For additional , ask a local equipment dealer or check manual.

# ormulated gasoline program from the wintertime oxygenated gram?

xygenated fuels program is a wintertime n for areas with carbon monoxide air oblems. Reformulated gasoline, on the is for year-round use to reduce ozone and areas with ozone air pollution problems.

## ut oxygenates that will be added ulated gasoline?

:ompleted to date indicates that these when added at levels that exist in RFG, eater health risk than the gasoline they are And, as part of the total cleaner gasoline, they help decrease vehicle emissions.

# CLEANER GAS AT THE PUMPS — A MAJOR STEP TOWARD CLEANER AIR

The reformulated gasoline program is one of the most important fuels programs to protect us against air pollution since lead was phased-out of gasoline.

Despite improvements in motor vehicle technology over the past 25 years, cars and trucks are still a major source of air pollution in the United States. This is largely because the number of vehicles on the road keeps growing and the number of miles driven has doubled since 1970. This is one reason why more than 90 areas across the country have ozone levels higher than the national public health standards allow.

The Congress provided a comprehensive strategy for reducing motor vehicle pollution in the 1990 Clean Air Act, calling for more stringent vehicle standards and fuel requirements. It also expands vehicle emissions inspection and maintenance programs so vehicles remain clean in actual use, and it encourages transportation planning to limit the growth in vehicle miles driven.

The concept of improving fuel to reduce vehicle emissions is not new. Regulations to limit lead in gasoline took effect starting in the 1970s. These were followed by gasoline volatility (evaporation) controls in the late 1980s. More recently, additives called oxygenates have been added to gasoline to reduce carbon monoxide emissions in the winter and the amount of sulfur in diesel fuel has been reduced to control emissions from diesel vehicles.

Using cleaner gasolines—reformulated gasoline—is the most recent strategy to reduce vehicle emissions through improvements to fuel. The program was developed through intensive negotiations between the EPA, representatives of the oil and automobile industries, state air pollution control officials, gasoline retailers, environmental organizations, and consumer groups. These negotiations ensured that reformulated gasoline is a quality product that meets both the emission reduction requirements of the Clean Air Act, and the needs of consumers, to improve the quality of the air we breathe.