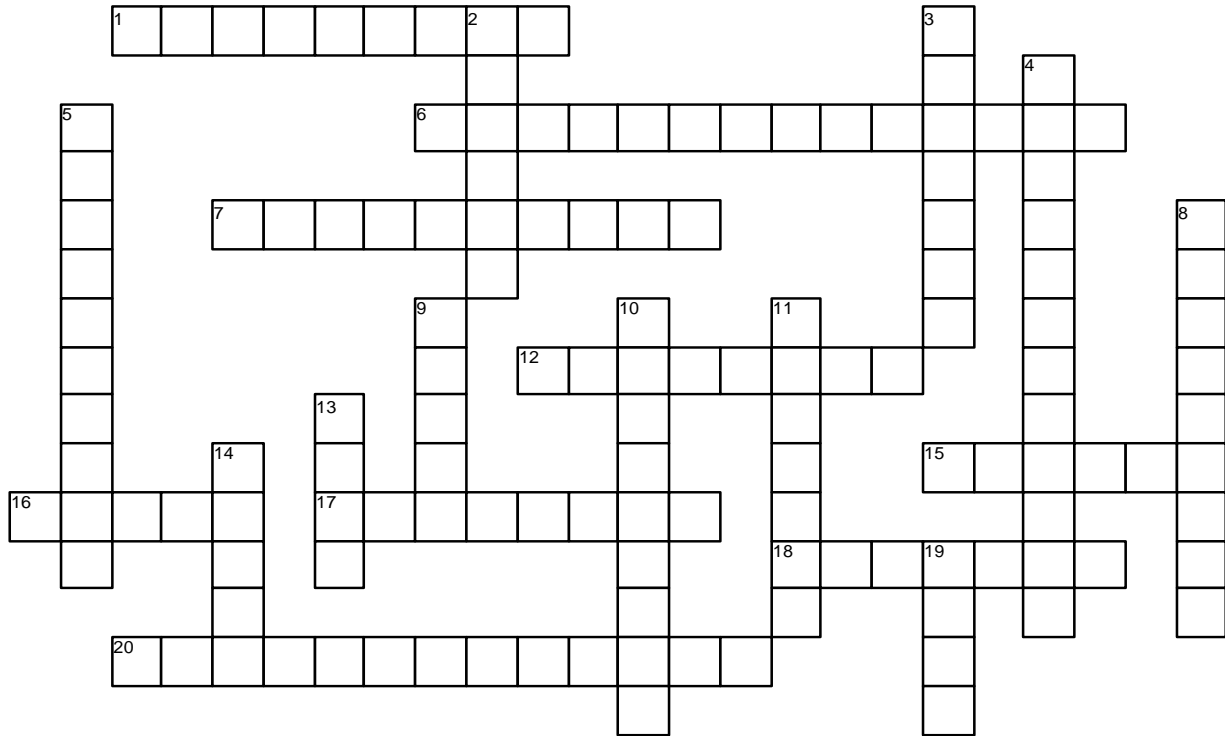


Gasoline, Alternative Fuels And Diesel Fuels

Chapter 67



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ACROSS

- 1 _____ pressure (RVP) is the pressure of the vapor above the fuel when the fuel is at 100°F (38°C).
- 6 The ideal mixture or ratio at which all of the fuel combines with all of the oxygen in the air and burns completely is called the _____ ratio, a chemically perfect combination.
- 7 _____ fuels contain oxygen in the molecule of the fuel itself.
- 12 _____ is the process during which hydrocarbons with higher boiling points can be broken down (cracked) into lower boiling hydrocarbons by treating them to very high temperatures.
- 15 The _____ number is a measure of the ease with which the fuel can be ignited.
- 16 Ethanol is also called _____ alcohol or grain alcohol, because it is usually made from grain and is the type of alcohol found in alcoholic drinks such as beer.
- 17 All gasoline is said to be _____, meaning that it is capable of being interchanged because each grade is created to specification so there is no reason to keep the different gasoline brands separated except for grade.
- 18 _____ called ethyl alcohol, is drinkable alcohol and is usually made from grain.
- 20 _____ can break down hydrocarbons that are resistant to catalytic cracking alone and it is used to produce diesel fuel rather than gasoline.

DOWN

- 2 The _____ rating of gasoline is the measure of its antiknock properties.
- 3 Vehicles using CNG fuel are often referred to as _____ gas vehicles (NGVs).
- 4 In the late 1800s, crude was separated into different products by boiling in a process called _____.
- 5 _____ describes how easily the gasoline evaporates (forms a vapor).
- 8 _____ is a domestically produced, renewable fuel that can be manufactured from vegetable oils, animal fats, or recycled restaurant greases.
- 9 Ethanol is also called ethyl alcohol or _____ alcohol, because it is usually made from grain and is the type of alcohol found in alcoholic drinks such as beer.
- 10 Today, instead of high heat, cracking is performed using a catalyst and is called _____ cracking.
- 11 The _____-_____ ratio is the proportion by weight of air and gasoline that the injection system mixes as needed for engine combustion.
- 13 Top-tier gasoline exceeds the quality standards developed by the World Wide Fuel Charter (_____) in 2002 by vehicle and engine manufacturers.
- 14 Another concern with diesel fuel at lower temperatures concerns _____ point, the low-temperature point when the waxes present in most diesel fuels tend to form crystals that can clog the fuel filter.
- 19 Abbreviation for alternative fuel vehicles.