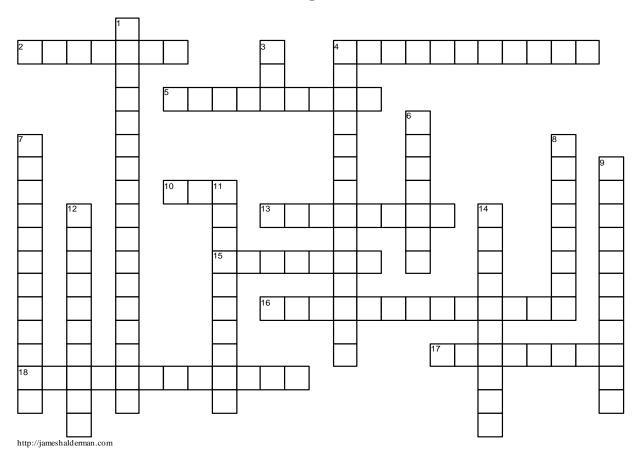
Gasoline, Alternative Fuels, and Diesel Fuels

Chapter 11



ACROSS

is the most widely used of all the alternative fuels mainly because of its use in fleets, which utilize a central refueling station. 4 The volatility of ______ gasoline should be about 7 PSI RVP. __ pressure (RVP) is the pressure of the vapor above the fuel when the fuel is at 100°F (38°C). 10 Abbreviation for a Flexible fuel vehicle. _____ is a term used to describe a complex mixture of various hydrocarbons refined from crude petroleum oil for use as a fuel in engines. 15 The ____ ratio is the proportion by weight of air and gasoline that the injection system mixes as needed for engine _ can break down hydrocarbons that are 16 resistant to catalytic cracking alone and it is used to produce diesel fuel rather than gasoline. 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 The _____ of gasoline is the measure of its

DOWN

1	Today, instead of high heat, cracking is performed using a
	catalyst and is called A catalyst is a
	material that speeds up or otherwise facilitates a chemical
	reaction without undergoing a permanent chemical change
	itself.
3	Abbreviation for an alternative fuel vehicle.
4	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
	theratio, a chemically perfect combination.
6	is drinkable alcohol and is usually made from
	grain.
7	In the late 1800s, crude was separated into different products
	by boiling in a process called
8	is the process during which hydrocarbons with
	higher boiling points can be broken down into lower boiling
	hydrocarbons by treating them to very high temperatures.
9	The American Society for Testing and Materials (ASTM)
	standards for gasoline allow volatility of up to
	15 pounds per square inch (PSI) RVP.
11	describes how easily the gasoline evaporates
	(forms a vapor).
12	fuels contain oxygen in the molecule of the fuel
	itself.
14	(also called detonation or ping) is a metallic
	noise an engine makes, usually during acceleration, resulting
	from abnormal or uncontrolled combustion inside the cylinder.



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