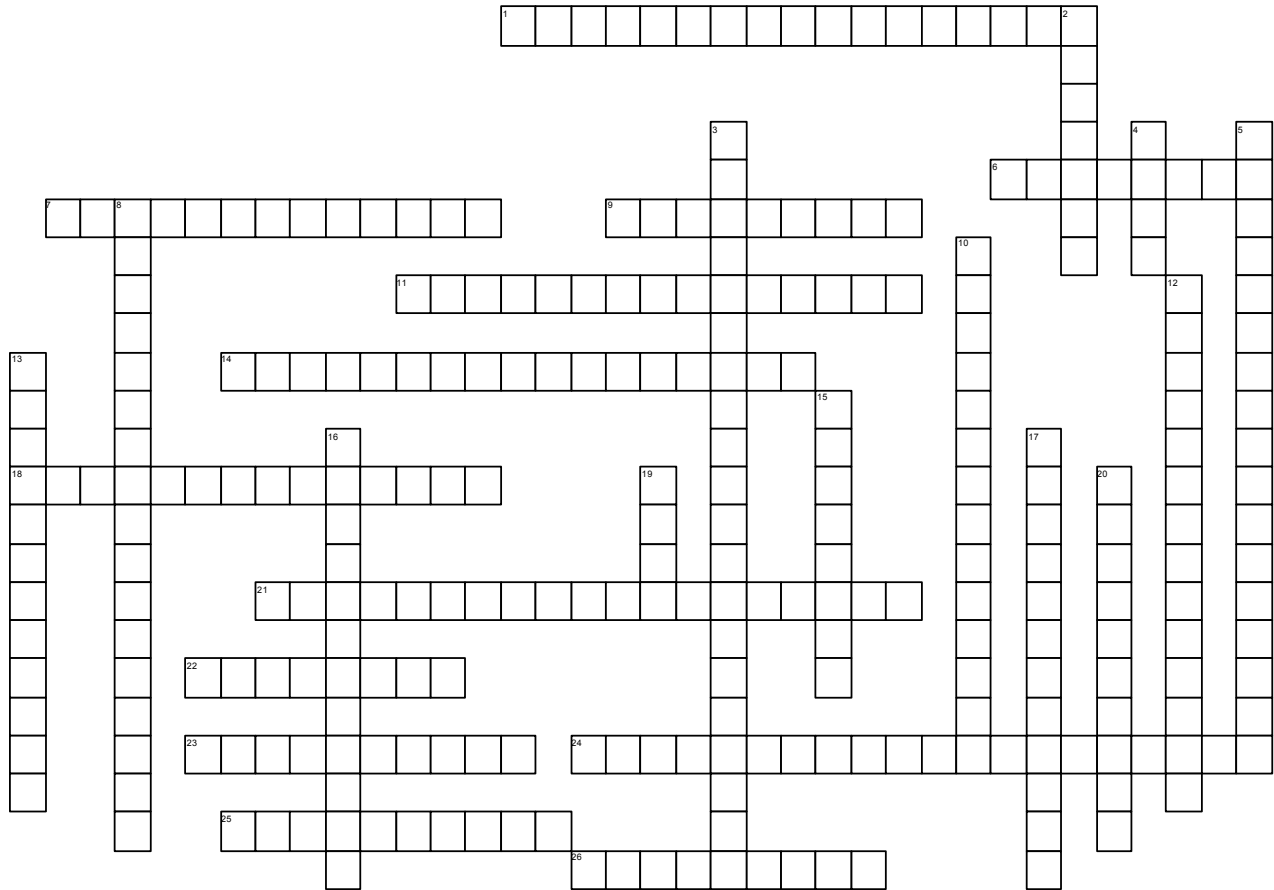


Gasoline

Chapter 5



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ACROSS

- 1 Besides RVP, another method of classifying gasoline volatility is the _____.
- 6 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.
- 7 _____ is similar to catalytic cracking in that it uses a catalyst, but the catalyst is in a hydrogen atmosphere.
- 9 _____ means rock oil.
- 11 _____ - _____ contain oxygen in the molecule of the fuel itself.
- 14 Instead of high heat, today cracking is performed using a catalyst and is called _____.
- 18 The pump octane is called the _____.

- 21 The heat produced by the combustion process is measured in _____.
- 22 _____ is a term used to describe a complex mixture of various hydrocarbons refined from crude petroleum oil for use as a fuel in engines.
- 23 _____ describes how easily the gasoline evaporates.
- 24 _____ is manufactured to help reduce emissions.
- 25 _____ is another term for engine knock.
- 26 At higher temperatures, liquid gasoline can easily vaporize, which can cause _____.

DOWN

- 2 _____ is drinkable alcohol and is usually made from grain.

- 3 The _____ was established in 2002 by vehicle and engine manufacturers.
- 4 _____ is another term for engine knock.
- 5 _____ is the pressure of the vapor above the fuel when the fuel is at 100°F (38°C).
- 8 To predict cold-weather driveability, an index was created called the _____.
- 10 One of the first additives used in gasoline was _____.
- 12 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.
- 13 The _____ of gasoline is the measure of its antiknock properties.
- 15 _____ is the process where hydrocarbons with higher boiling

- points could be broken down into lower-boiling hydrocarbons by treating them to very high temperatures.
- 16 In the late 1800s, crude was separated into different products by boiling in a process called _____.
- 17 There is a direct relationship between engine airflow and fuel requirements; this is called the _____.
- 19 The _____ standards for winter-blend gasoline allow volatility of up to 15 PSI RVP.
- 20 _____ is another term for engine knock.