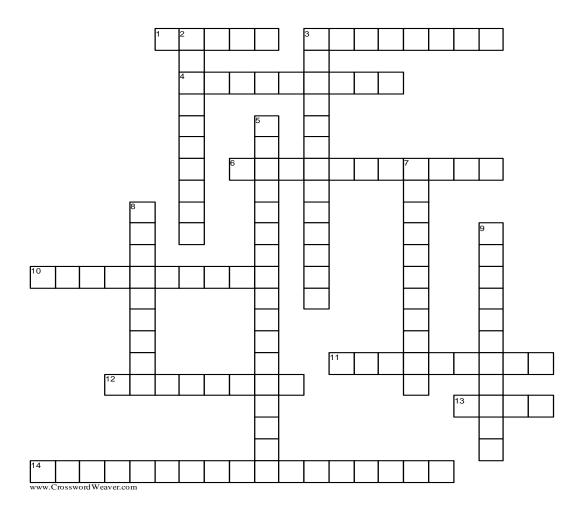
Diesel and Biodiesel Fuel

Chapter 11



ACROSS

1	It is imperative that the fuel used in a diesel engine be clean and free from
3	E-diesel, also called outside of the United States, is standard No. 2 diesel fuel that contains up to 15% ethanol.
	While E-diesel can have up to 15% ethanol by volume, typical blend levels are from 8% to 10%.
4	The restriction gauge allows the service technician to determine the condition of the air filter element by opening
	the air filter housing.
6	A sensor is a sensor that is used to illuminate an indicator on the instrument panel when service is needed.
10	is the low-temperature point when the waxes present in most diesel fuels tend to form crystals that can clog the
	fuel filter.
11	Diesel fuel must be able to flow freely at all expected ambient temperatures. One specification for diesel fuel is its "
	," which is the temperature below which the fuel would stop flowing.
12	The emission controls used on 2007 and newer diesel engines require the use ofSulfur diesel for reliable operation.
13	Abbreviation for the American Society for Testing Materials.
14	Theinstitute is an organization that specifies a specific type, grade, and viscosity of oil.
DOWN	
2	is an arbitrary scale expressing the gravity or density of liquid petroleum products devised jointly by the American
	Petroleum Institute and the National Bureau of Standards.
3	fluid is a fluid consisting of a mixture of 32.5% laboratory grade ammonia and 67.5% deionized water.
5	codes indicate needed service or issues related to customer driving habits.
7	Diesel, either coolant or electric, help prevent power loss and stalling in cold weather.
8	is a domestically produced, renewable fuel that can be manufactured from vegetable oils, animal fats, or recycled
	restaurant greases.
9	Regular diesel fuel is often called

