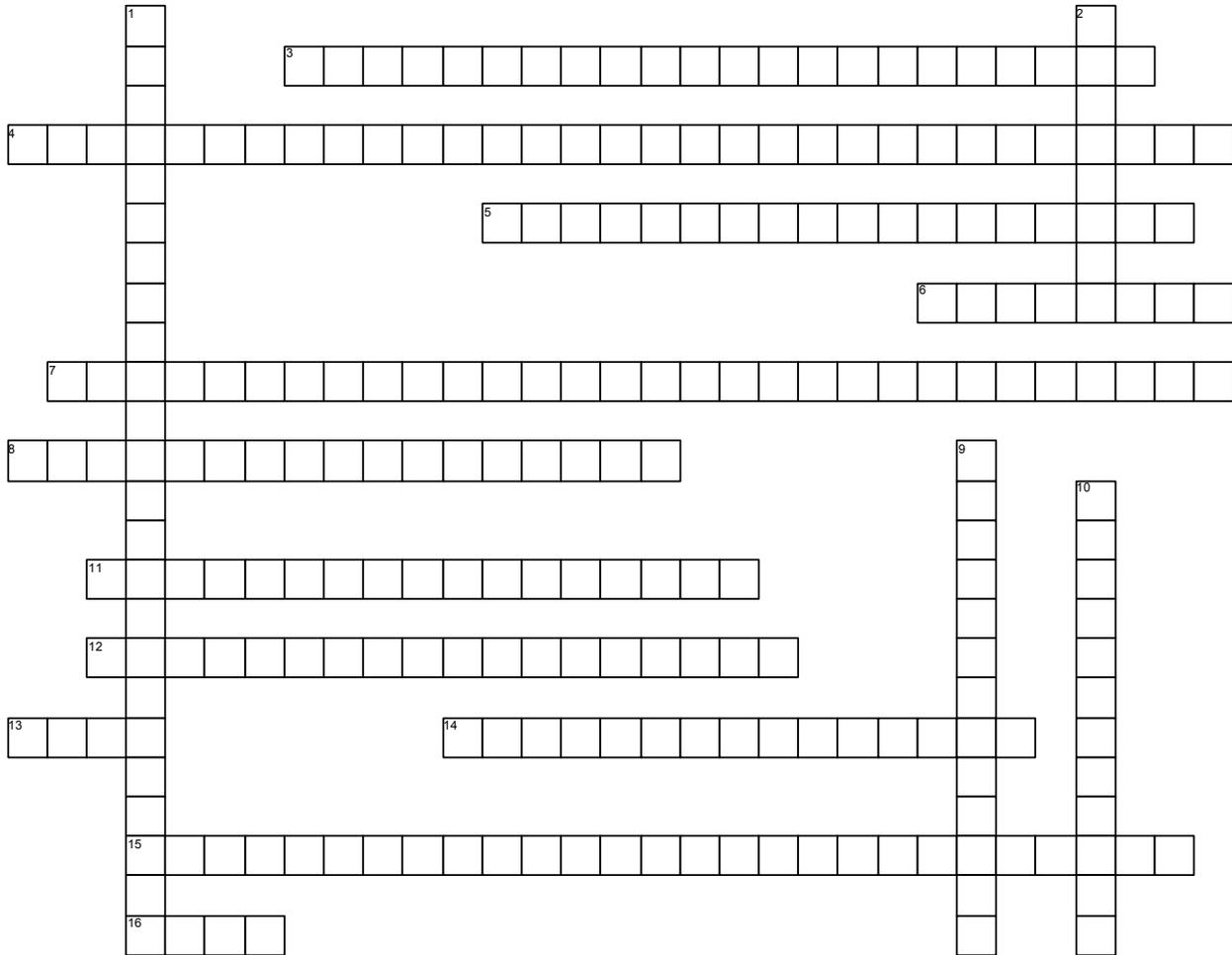


Diesel Engine Operation

Chapter 16



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ACROSS

- 3 Newer diesel engines use a fuel delivery system referred to as a _____ design.
- 4 _____ are used in all light-duty diesel vehicles, since 2007, to meet the exhaust emissions standards for particulate matter.
- 5 Urea is called _____ in North America.
- 6 A _____ is an electrical heating element that uses 12 volts from the battery and aids in the starting of a cold engine by providing heat to help the fuel to ignite.
- 7 Ford 7.3 and 6.0 liter diesels use a system called a _____ system.
- 8 _____ is when incoming air is compressed until its temperature reaches about 1,000°F (540°C).
- 11 In an _____ diesel engine, fuel is injected into a small prechamber, which is connected to the cylinder by a narrow opening.
- 12 Between the fuel tank and the lift pump is a _____.

- 13 Instead of using large amounts of exhaust gas recirculation, the SCR system uses a _____.
- 14 In a _____ diesel engine, fuel is injected directly into the cylinder.
- 15 _____ is a method used to reduce NOx emissions by injecting urea into the exhaust stream.
- 16 Another name for particulate matter is _____.

DOWN

- 1 _____ is a type of catalytic converter used in all light-duty diesel engines, since 2007.
- 2 The diesel fuel is usually drawn from the fuel tank by a separate pump, called a _____ and delivers the fuel to the injection pump.
- 9 A diesel engine uses a fuel system with a precision _____ and individual fuel injectors.
- 10 The process of purging soot from the DPF is described as _____.