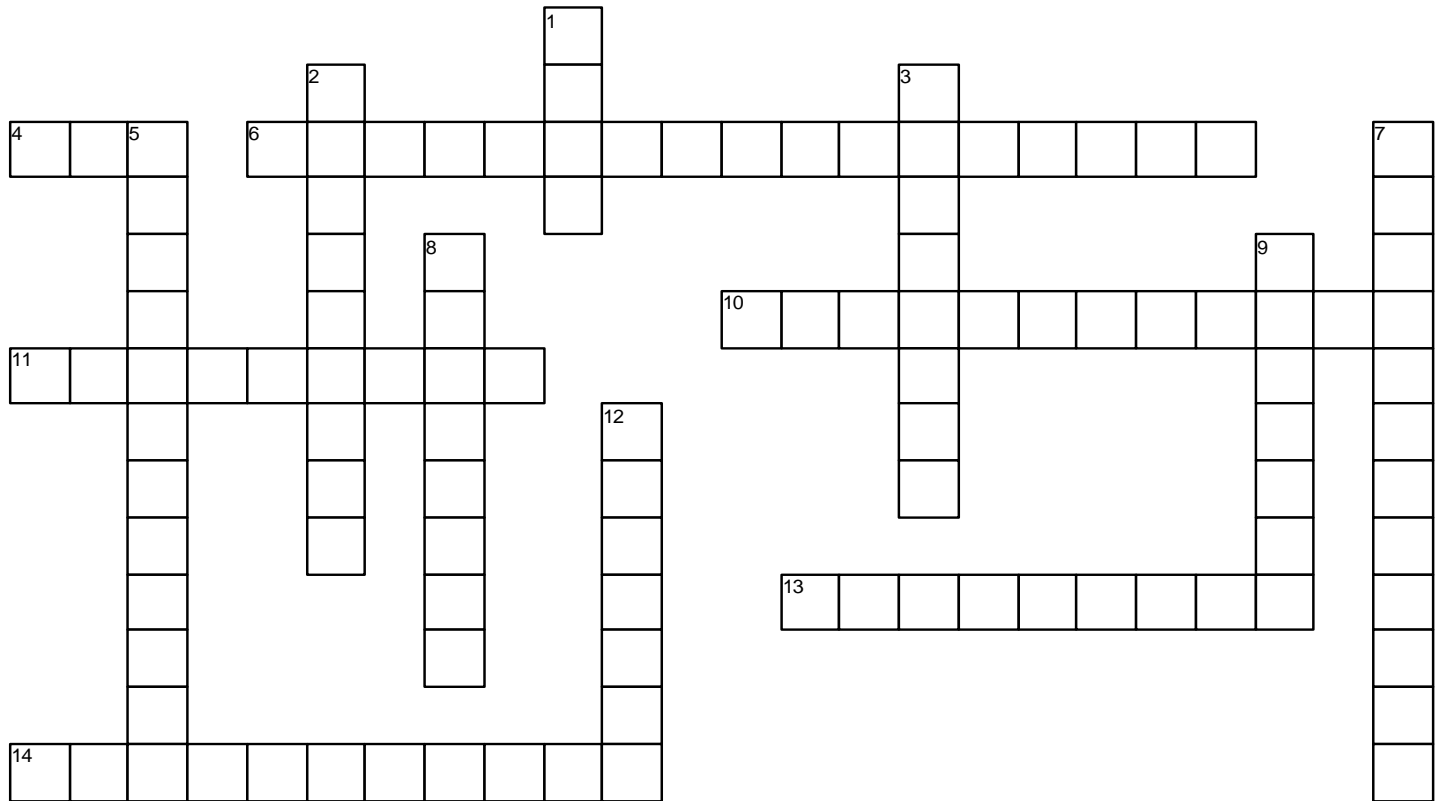


Duramax Diesel Engines

Chapter 23



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ACROSS

- Part of the SCR system, the ___ injector sprays a fine mist of urea fluid from the DEF tank into the SCR catalyst.
- the Duramax diesel engine started life using a highpressure common rail fuel injection system. the 2001–2004 model years version was labeled LB7 because this was the _____ option code used for this engine model.
- The head gaskets used in the Duramax diesel engines are _____ steel gaskets.
- The Diesel _____ Catalyst is used to oxidize HC and CO into CO₂ and H₂O.
- the _____ thermostat is used to restrict the flow of coolant through the radiator when it is closed.
- The Diesel _____ Filter is used to trap particulate matter, commonly called soot.

DOWN

- The engines are built by a GM and Isuzu partnership company called _____, a joint venture in Moraine near Dayton in southwest Ohio.
- The _____ catalyst reduction is used to reduce NO_x exhaust emissions into N₂ and O₂, and to oxidize the remaining elements into N₂, CO₂ and H₂O.
- Each fuel injector has an injector _____ adjustment code. the code is marked on each injector, which indicates the flow rate of the injector to the PCM.
- The drivers for the injectors are located in the _____ control module (FICM). the FICM is located on the side of the engine and cooled with fuel that flows through it.
- From the fuel tank, fuel is drawn through the lines to the fuel _____ module.
- The _____ control module controls the operation of the glow plugs and its location varies by application.
- The _____ (forward) thermostat is used to control both the bypass coolant flow when the engine is cold and the flow through the radiator when the engine is hot. In operation, the primary thermostat starts to open at 180°F (82°C) and allows coolant to flow to the radiator.
- The oil change interval is determined by using the _____ monitor.