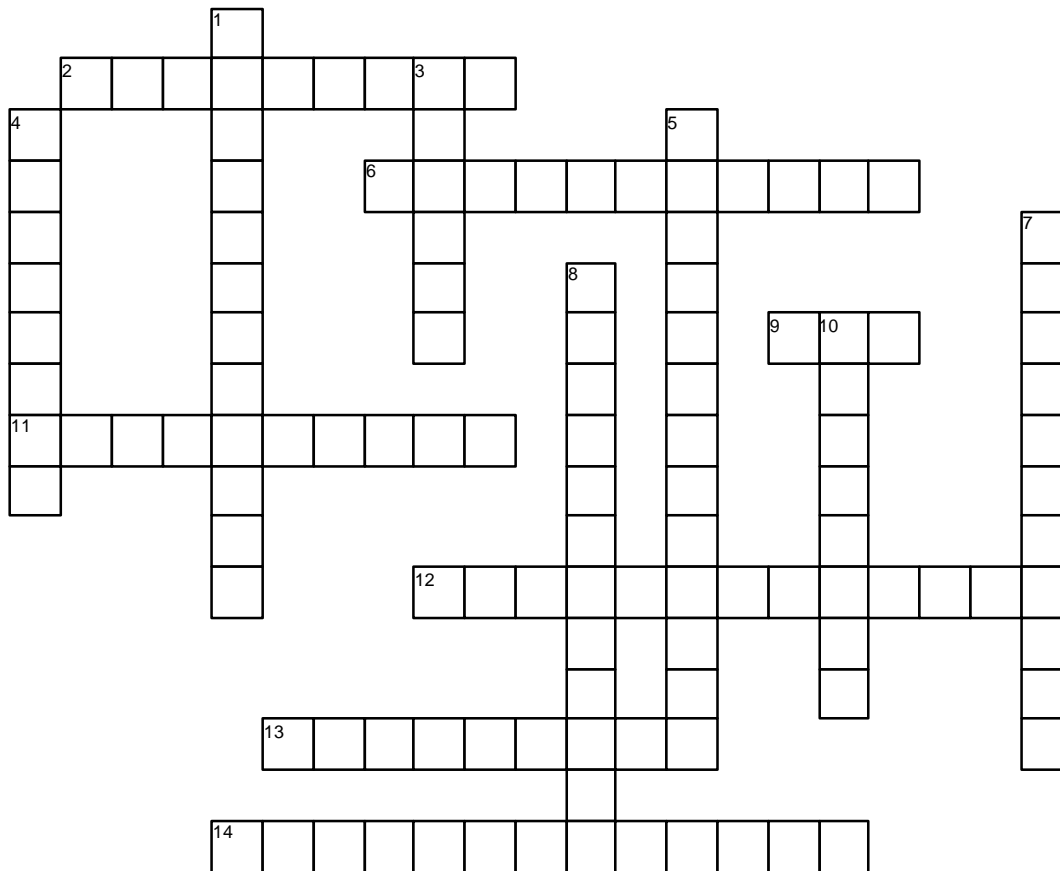


# Diesel Engine Blocks and Rotating Assemblies

## Chapter 2



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### ACROSS

- 2 \_\_\_\_ are used to fill the holes in the openings in the side of the block. Core plugs are also called freeze plugs or frost plugs.
- 6 A \_\_\_\_ - \_\_\_\_ design is a structural member that attaches to the bottom of the block and supports the crankshaft.
- 9 \_\_\_\_ has increased strength, ductility, toughness, and stiffness compared to gray iron.
- 11 \_\_\_\_ is a hardening procedure that involves heating the crankshaft in a molten cyanide salt bath. Tuftriding is a trade name of General Motors.
- 12 \_\_\_\_ cylinders are surrounded by cooling passages often called the cooling jacket.
- 13 \_\_\_\_ is a process where the crankshaft is heated to about 1,000°F (540°C) in a furnace filled with ammonia gas, and then allowed to cool.
- 14 \_\_\_\_ is the difference between a bearing shell and the bearing housing.

### DOWN

- 1 When the bearing is installed, each end of the bearing shell is slightly above the parting surface. When the bearing cap is tightened, the ends of the two bearing shells touch and are forced together. This force is called \_\_\_\_.
- 3 a \_\_\_\_ ties all of the main bearing caps together, to add strength to the lower part of the block.
- 4 A \_\_\_\_ is a structural part of the engine which is attached between the block and the oil pan and supports the crankshaft.
- 5 \_\_\_\_ refers to where only the outer portion of the surface is hardened.
- 7 A lip or tang that helps locate the bearing shell in the housing.
- 8 \_\_\_\_ are holes that are drilled from outside the block.
- 10 \_\_\_\_ iron containing about 3% carbon (graphite), which makes it gray in color.