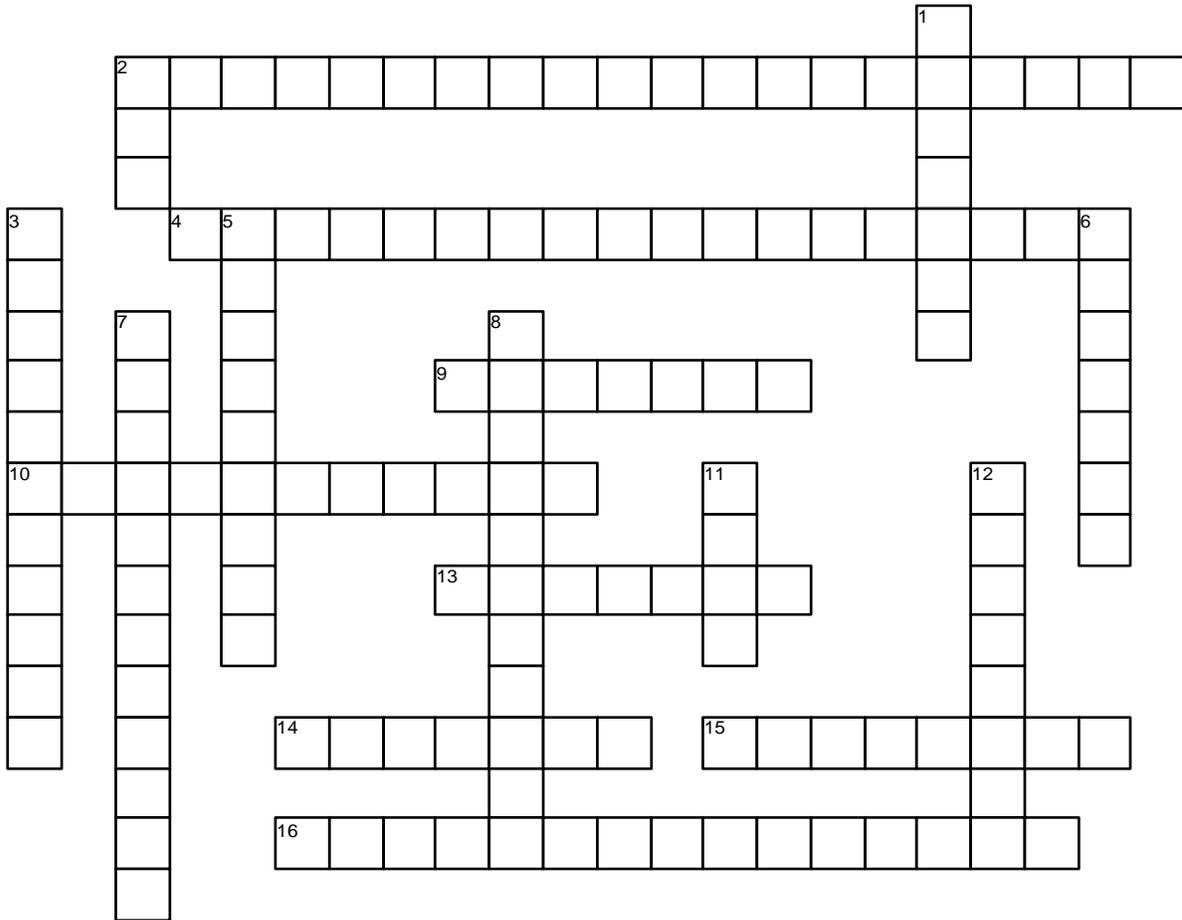


Lubrication System Operation And Diagnosis

Chapter 20



<http://jameshalderman.com>

ACROSS

- 2 All oil pumps are called _____ pumps, and each rotation of the pump delivers the same volume of oil.
- 4 Another name for the oil pump relief valve is the _____ valve.
- 9 The _____ is required to provide 3 to 6 gallons per minute of engine oil to lubricate the engine.
- 10 A _____ oil pump is a positive oil displacement pump that uses an inner and outer rotor. The term derives from two words: "generated rotor".
- 13 In most engines, oil is held in the oil pan and the oil pump draws the oil from the bottom, this is called a _____ oil system.
- 14 In a _____ system, the oil pan is shallow and the oil is pumped into a remote reservoir.
- 15 _____ lubrication is where the oil film is thick enough to keep the surfaces from seizing, but can allow some contact to occur.
- 16 Excessive _____, either too low or too high, are harmful to any engine.

DOWN

- 1 _____ is a type of positive displacement oil pump that uses an inner and an outer rotor.
- 2 Oil pressure is measured in _____.
- 3 A baffle or _____ is sometimes installed in engines to eliminate the oil churning problem.
- 5 A _____ oil pump is driven by the crankshaft and uses a special lobe-shape gear meshing with the inside of a lobed rotor.
- 6 Oil from the oil pump first flows through the oil filter then goes through a drilled hole that intersects with a drilled main oil _____, or longitudinal header.
- 7 _____ lubrication is a wedging action and depends on the force applied to the rate of speed between the objects and the thickness of the oil.
- 8 The normal engine _____ range is from 10 to 60 PSI or 10 PSI per 1000 engine RPM.
- 11 Another name for the oil pan is a _____.
- 12 The oil pump is made so that it is large enough to provide pressure at low engine speeds and small enough that it will not _____ at high speed.