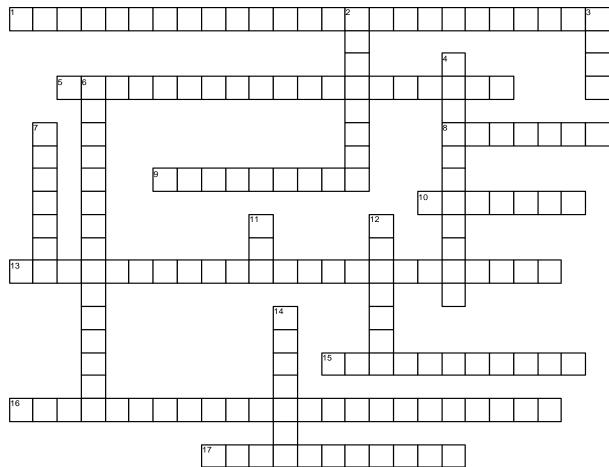
Lubrication System Operation And Diagnosis Chapter 23



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ACROSS

1 All oil pumps are called

_____, and each rotation of the pump delivers the same volume of oil.

- 5 ______is where the oil film is thick enough to keep the surfaces from seizing, but can allow some contact to occur.
- 8 In a _____ system, the oil pan is shallow and the oil is pumped into a remote reservoir.
- 9 A ______ oil pump is driven by the crankshaft and uses a special lobe-shape gear meshing with the inside of a lobed rotor.
- 10 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.

- 13 ______is a wedging action and depends on the force applied to the rate of speed between the objects and the thickness of the oil.
- **15** A ______ oil pump is a positive oil displacement pump that uses an inner and outer rotor. The term derives from two words: "generated rotor".
- **16** Another name for the oil pump relief valve is the _____
- 17 The normal engine ____ _____ range is from 10 to 60 PSI or 10 PSI per 1000 engine RPM.

DOWN

2 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.

- 3 Another name for the oil pan is a
- 4 A baffle or _____ is sometimes installed in engines to eliminate the oil churning problem.
- 6 Excessive _____, either too low or too high, are harmful to any engine.
- 7 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. 11 Oil pressure is measured in ____

- 12 ______ is a type of positive displacement oil pump that uses an inner and an outer rotor.
- 14 The _____ is required to provide 3 to 6 gallons per minute of engine oil to lubricate the engine.

