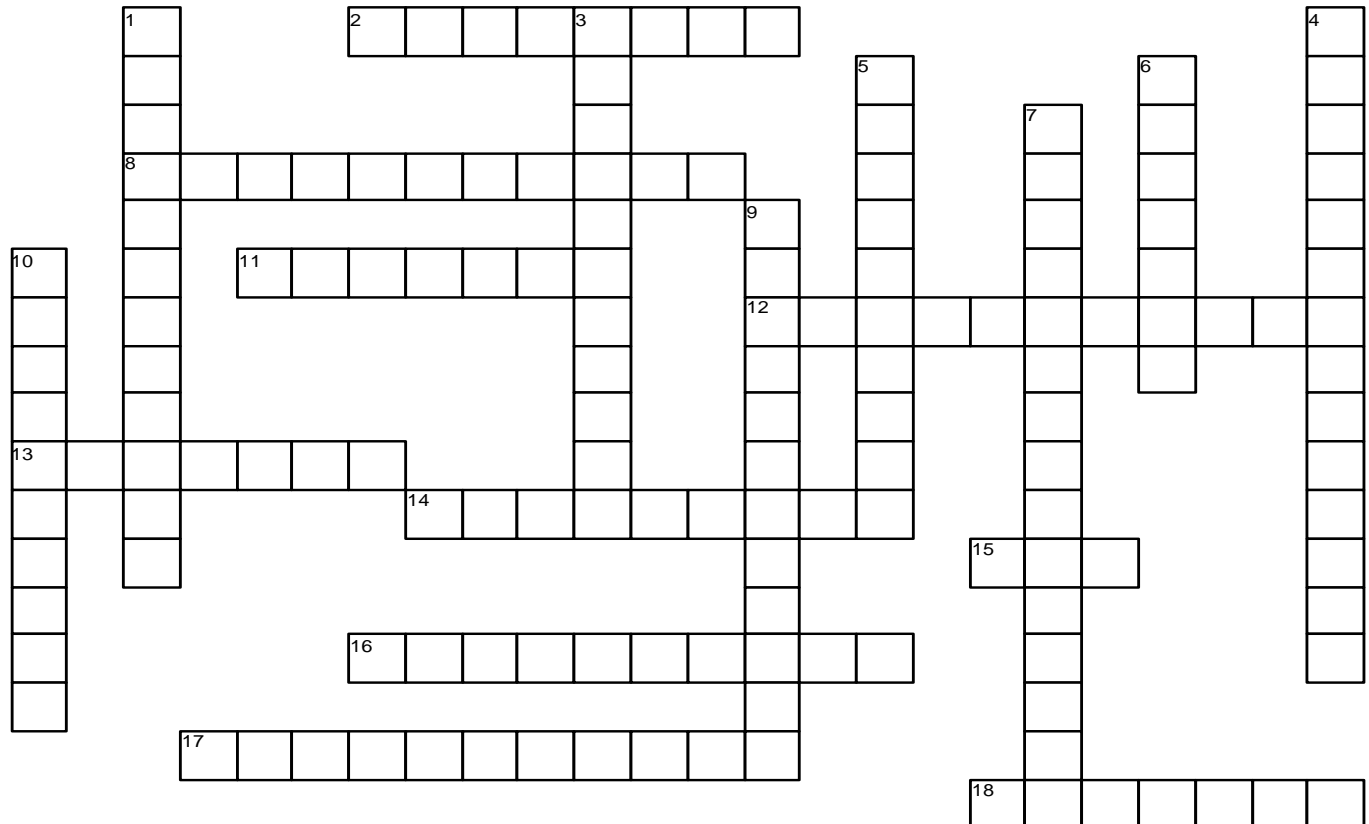


Engine Condition Diagnosis

Chapter 13



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ACROSS

- 2 _____ can lead to severe engine damage if the resulting low oil level is not corrected.
- 8 During an _____ diagnosis, an engine knocking noise is often difficult to diagnose.
- 11 One of the best tests that can be used to determine engine condition is the cylinder _____ test.
- 12 An engine _____ test is one of the fundamental engine diagnostic tests that can be performed.
- 13 A _____ compression test is done with the engine running rather than during engine cranking as is done in a regular compression test.
- 14 A soundly running engine should produce even and steady exhaust at the tailpipe, you can test this with the _____.
- 15 If the compression test reading indicates low compression on one or more cylinders, add three squirts of oil to the cylinder and retest, this is called a _____ compression test.
- 16 During an _____ test, an engine in proper condition should idle with a steady vacuum between 17 and 21 in. Hg.
- 17 _____ testing can indicate if main thrust or rod bearings are worn.
- 18 Another name for a running compression test is a _____ compression test.

DOWN

- 1 The purpose of a cylinder _____ test is to determine if all cylinders are contributing power equally.
- 3 Performing _____ diagnosis by the color of the engine exhaust smoke can indicate what engine problem might exist.
- 4 A _____ test is a quick and easy test to determine if the piston rings and valves are properly sealing.
- 5 During a _____, the results can be measured in millimeters of mercury.
- 6 During an _____ restriction test, a clogged catalytic converter could be found to be present.
- 7 Vacuum is pressure below atmospheric pressure and is measured in _____.
- 9 If the exhaust system is restricted, pressure increases in the exhaust system, this pressure is called _____.
- 10 If you have a _____ exhaust, the engine will be low on power, yet smooth.