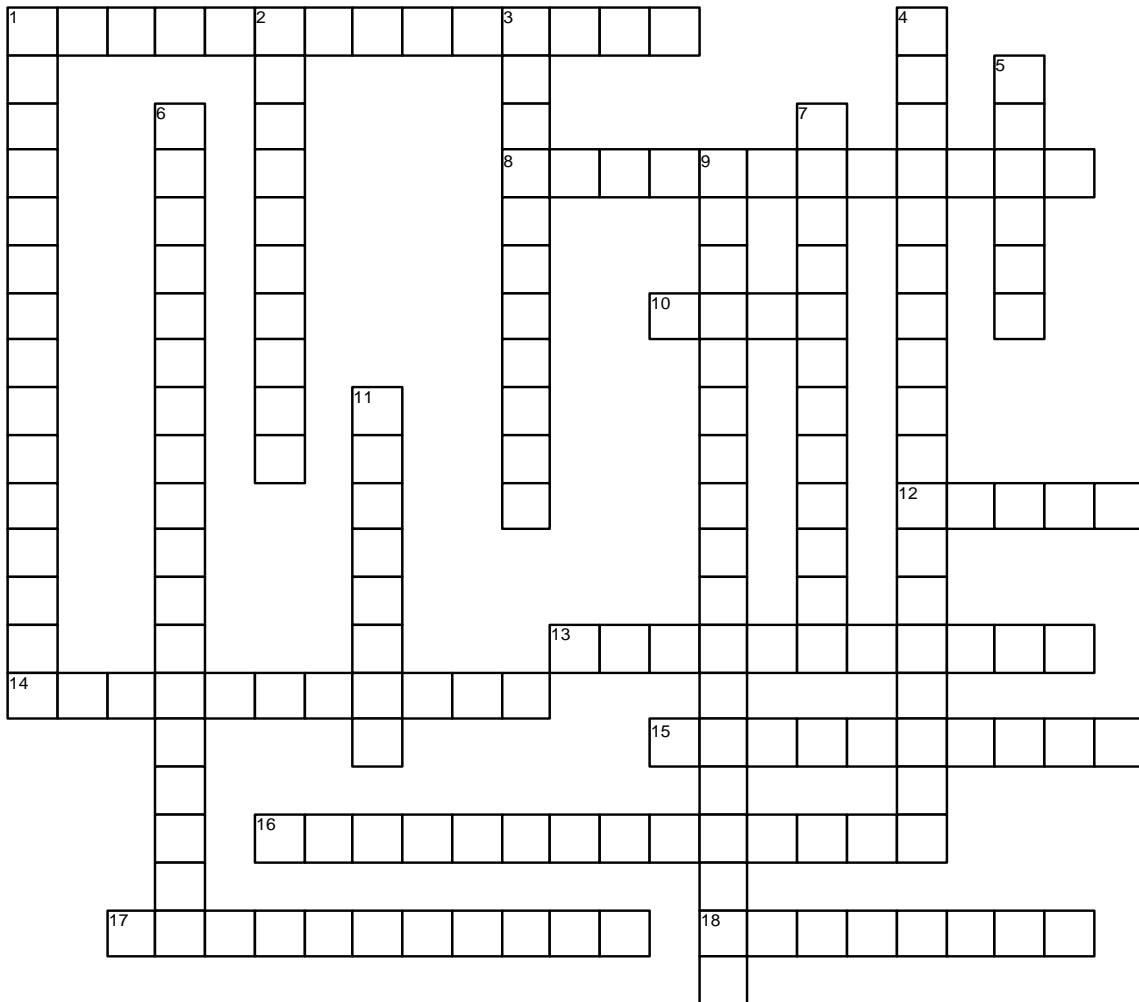


Engine Condition Diagnosis

Chapter 23



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ACROSS

- 1 A _____ test is a quick and easy test to determine if the piston rings and valves are properly sealing.
- 8 The purpose of a cylinder _____ test is to determine if all cylinders are contributing power equally.
- 10 A _____ test will check for possible intake or exhaust restrictions.
- 12 A soundly running engine should produce even and steady exhaust at the tailpipe, you can test this with the _____ test.
- 13 _____ testing can indicate if main thrust or rod bearings are worn.
- 14 During an _____ diagnosis, an engine knocking noise is often difficult to diagnose.
- 15 If you have a _____ exhaust, the engine will be low on power, yet

smooth.

- 16 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 _____ test
- 17 Completing an _____ diagnosis by assessing the color of the engine smoke can indicate what problems might exist.
- 18 _____ can lead to severe engine damage if the resulting low oil level is not corrected.

DOWN

- 1 One of the best tests that can be used to determine engine condition is the _____ test.
- 2 During an _____ test, an engine in proper condition should idle with a steady vacuum between 17 and 21 in. Hg.

- 3 An engine _____ test is one of the fundamental engine diagnostic tests that can be performed.
- 4 Another name for a running compression test is a _____ test.
- 5 During a _____ test, the results can be measured in millimeters of mercury.
- 6 During an _____ test, a clogged catalytic converter could be found to be present.
- 7 If the exhaust system is restricted, pressure increases in the exhaust system, this pressure is called _____.
- 9 A _____ test is done with the engine running rather than during engine cranking as is done in a regular compression test.
- 11 Vacuum is pressure below atmospheric pressure and is measured in _____ mercury.