

Automotive Technology 7th Edition
Chapter 23: Engine Condition Diagnosis
Matching Quiz

Name: _____

Date: _____

Matching: Choose the item in column 2 that best matches each item in column 1.

- | | | |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------|
| 1. Compression Test | A. Exhaust color that indicates the engine is burning oil. | 1. _____ |
| 2. Wet Compression Test | B. A test that injects pressurized air into a cylinder to find the source of a leak. | 2. _____ |
| 3. Cylinder Leakage Test | C. An increase of pressure in the exhaust system caused by a restriction. | 3. _____ |
| 4. Relative Compression Test | D. One of the fundamental engine diagnostic tests where all cylinders must have equal compression. | 4. _____ |
| 5. Power Balance Test | E. Exhaust color that indicates excessive fuel is being burned. | 5. _____ |
| 6. Vacuum Test | F. A quick test using a piece of paper held at the tailpipe to check for burned valves or an exhaust leak. | 6. _____ |
| 7. Paper Test | G. A test that uses oil added to the cylinder to help seal around worn piston rings. | 7. _____ |
| 8. Back Pressure | H. A test that uses starter motor current to determine the compression values of all cylinders. | 8. _____ |
| 9. Blue Smoke | I. A test to determine if all cylinders are contributing power equally by shorting them out one at a time. | 9. _____ |
| 10. Black Smoke | J. A test that measures pressure below atmospheric pressure in the intake manifold to help diagnose engine condition. | 10. _____ |

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Answer Key

Answer Key:

1. D
2. G
3. B
4. H
5. I
6. J
7. F
8. C
9. A
10. E