

# Cylinder Leakage Testing

Meets ASE Task: A8 – A-11 – P-1

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time on Task: \_\_\_\_\_

Make/Model/Year: \_\_\_\_\_ VIN: \_\_\_\_\_

Evaluation (Enter number from 4, 3, 2, 1) : \_\_\_\_\_

- 1. The engine should be at normal operating temperature.
- 2. Rotate the engine until the piston of the cylinder being tested is at TDC on the compression stroke.

3. Calibrate the cylinder leakage gauge.

4. Install compressed air in the cylinder. Read the gauge. \_\_\_\_\_ % of leakage

**Check one:**

- \_\_\_\_\_ Good - less than 10%
- \_\_\_\_\_ Acceptable - less than 20%
- \_\_\_\_\_ Unacceptable - higher than 20%

5. Check the location of air leakage:

- \_\_\_\_\_ a. **radiator** - possible blown head gasket or cracked cylinder head.
- \_\_\_\_\_ b. **tail pipe** - defective exhaust valve(s).
- \_\_\_\_\_ c. **Throttle Body or air inlet** - defective intake valve(s).
- \_\_\_\_\_ d. **oil filler cap** - possible worn or defective piston rings.

6. Based on the test results, what is the necessary action? \_\_\_\_\_

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