

# 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? \_\_\_\_\_  
\_\_\_\_\_