

# Compression Testing

Meets ASE Task: A8 – A-10 – P-1

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

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

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

- 1. Remove all spark plugs and disable the ignition system to avoid possible ignition coil damage.
- 2. Block open the throttle (Refer to manufacturer's procedures if equipped with ETC).
- 3. Crank the engine at least 4 "puffs" (compression strokes) while observing the gauge.

**NOTE:** For accurate test results, the engine should be at normal operating temperature.

**RESULTS: 1st puff / final reading**

1. \_\_\_\_\_ / \_\_\_\_\_

2. \_\_\_\_\_ / \_\_\_\_\_

3. \_\_\_\_\_ / \_\_\_\_\_

4. \_\_\_\_\_ / \_\_\_\_\_

**1st puff / final reading**

5. \_\_\_\_\_ / \_\_\_\_\_

6. \_\_\_\_\_ / \_\_\_\_\_

7. \_\_\_\_\_ / \_\_\_\_\_

8. \_\_\_\_\_ / \_\_\_\_\_

**NOTE:** The 1st "puff" should be more than one-half of the pressure of the final puff. If the 1st puff is low, worn piston rings are likely – repeat the test.

- 4. Reinstall all spark plugs except one. Perform a running compression test at idle and at 2000 RPM for each cylinder.

**Idle**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

**2000 RPM**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

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

\_\_\_\_\_