

# Compression Testing

**Meets NATEF Task:** (A8-A-10) Perform cylinder compression tests; determine necessary action (P-1)

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

Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

- \_\_\_\_\_ 1. Remove all spark plugs (be certain to label the spark plug wires) and disable the ignition system to avoid possible ignition coil damage.
- \_\_\_\_\_ 2. Block open the throttle and choke (if equipped).
- \_\_\_\_\_ 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	1st puff / final reading
1. _____ / _____	5. _____ / _____
2. _____ / _____	6. _____ / _____
3. _____ / _____	7. _____ / _____
4. _____ / _____	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	2000 RPM
1. _____	1. _____
2. _____	2. _____
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____
6. _____	6. _____
7. _____	7. _____
8. _____	8. _____

OK \_\_\_\_\_ NOT OK \_\_\_\_\_

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

\_\_\_\_\_