

Compression Testing

Meets NATEF Task: (A1-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. _____ / _____
 2. _____ / _____
 3. _____ / _____
 4. _____ / _____

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

2000 RPM

1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
 7. _____
 8. _____

1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
 7. _____
 8. _____

OK _____ **NOT OK** _____

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