

Cylinder Leakage Test

Meets NATEF Task: (A8-A-5) Perform cylinder leakage test; determine necessary action.
(P-1)

Name _____ Date _____ Time on Task _____

Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

- _____ 1. The engine should be at normal operating temperature.
- _____ 2. Test the cylinder with the piston at top dead center (TDC) on the compression stroke.
- _____ 3. Calibrate the tester and install tester lead in the spark plug opening.
- _____ 4. Install compressed air in the cylinder. Read the meter.

Cylinder #1 _____ % of leakage
 Cylinder #2 _____ % of leakage
 Cylinder #3 _____ % of leakage
 Cylinder #4 _____ % of leakage
 Cylinder #5 _____ % of leakage
 Cylinder #6 _____ % of leakage
 Cylinder #7 _____ % of leakage
 Cylinder #8 _____ % of leakage



Results:
 Good - less than 10%
 Acceptable - less than 20%
 Unacceptable - higher than 20%

- _____ 5. Check the *source* of air leakage:
 - _____ A. radiator - possible blown head gasket or cracked cylinder head.
 - _____ B. tail pipe - defective exhaust valve(s).
 - _____ C. carburetor or air inlet - defective intake valve(s).
 - _____ D. oil fill cap - possible worn or defective piston rings.
- _____ 6. Based on the test results, what is the necessary action? _____
