

Cylinder Leakage Test

Meets NATEF Task: (A8-A-8) Perform cylinder leakage tests; 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. 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 *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 filler cap** - possible worn or defective piston rings.
- _____ 6. Based on the test results, what is the necessary action? _____
- _____