Cylinder Leakage Test

Meets NATEF Task: (A8-A-11) 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? _____

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