Evaluation (Enter number from 4, 3, 2, 1) :\_\_\_\_\_\_\_\_\_

**Meets ASE Task:** (A8-A-11) P-1 Perform cylinder leakage test; determine needed action.

**Cylinder Leakage Test**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Time on Task:\_\_\_\_\_\_\_\_\_\_\_\_\_

Make/Model/Year:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

VIN:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**[ ]  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 needed action? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_