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:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Page 73

**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? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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