

# Cooling System Tests

**Meets ASE Task:** (A1-D-1) P-1 Identify and interpret engine concern; determine needed action.

Name \_\_\_\_\_ Date \_\_\_\_\_ Time on Task \_\_\_\_\_

Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

\_\_\_\_\_ 1. Check service information for the specified cooling system tests and specifications.

\_\_\_\_\_

\_\_\_\_\_ 2. Pressure test the cooling system using a hand-operated pressure tester as per the tester manufacturer's instructions. Results:

\_\_\_\_\_ OK – pressure held

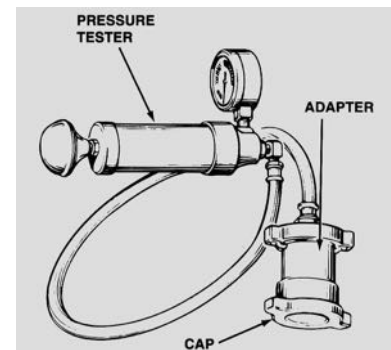
\_\_\_\_\_ NOT OK – pressure dropped

Describe the fault found: \_\_\_\_\_

\_\_\_\_\_ 3. Pressure test the pressure cap using a hand-operated pressure tester.

\_\_\_\_\_ OK – pressure held

\_\_\_\_\_ NOT OK



\_\_\_\_\_ 4. Check the cooling system for presence of combustion gases. Check the procedure used.

\_\_\_\_\_ Exhaust gas analyzer checking for HC emissions

\_\_\_\_\_ Coated paper that changes color

\_\_\_\_\_ Liquid tester that changes color

\_\_\_\_\_ Other (describe) \_\_\_\_\_

\_\_\_\_\_ 5. Results of combustion gas test:

\_\_\_\_\_ Negative (no combustion gases discovered in coolant)

\_\_\_\_\_ Positive (combustion gas discovered in coolant)

\_\_\_\_\_ 6. Check temperature of cooling system using an infrared pyrometer or other suitable temperature measuring instrument.

\_\_\_\_\_ Check the radiator for cool areas, which could indicate blockages

\_\_\_\_\_ Compare temperature of the cooling system hoses to thermostat rating

\_\_\_\_\_ 7. Based on the cooling system tests, what is the needed action? \_\_\_\_\_