

Cooling System Tests

Meets NATEF Task: (A8-A-4) Inspect engine assembly for fuel, oil, coolant, and other leaks; determine necessary action. (P-2)

Name _____ Date _____ Time on Task _____

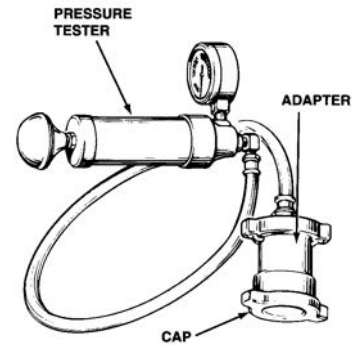
Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

_____ 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 necessary action? _____