



Engine Operating Temperature

Meets NATEF Task: (A8-A-10) Verify engine operating temperature; determine necessary action. (P-1)

Name _____ Date _____ Time on Task _____

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

- _____ 1. Check service information for the specified thermostat rating and normal operating temperature range.

Thermostat temperature _____

Normal operating temperature _____

- _____ 2. Start the engine and operate until normal operating temperature is achieved and the thermostat is fully open.

- _____ 3. Using an infrared pyrometer, measure the radiator at the inlet, middle, and outlet sections and record the readings.

Inlet = _____ (should be the hottest)

Middle = _____ (should be cooler than the inlet section)

Outlet = _____ (should be cooler than the middle)

OK _____ **NOT OK** _____

- _____ 4. Aim the infrared pyrometer to all sections of the radiator and look for any areas that are cooler than the surroundings which indicate a restricted or clogged portion of the radiator.

OK _____ **NOT OK** _____

- _____ 5. Check engine coolant temperature (ECT) sensor valve, using a scan tool: _____

- _____ 6. Based on the inspection and temperature tests, what is the necessary action?

