[ ]  1. Check to see if an infrared pyrometer can be aimed to most areas of the radiator from the engine side. **NOTE:** The fan(s) shroud may have to be removed to gain access.

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

Meets ASE Task: A1 – D-4 – P-1

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

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

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

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

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

**Radiator Testing with an Infrared Pyrometer**

[ ]  2. What had to be removed to allow access? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

[ ]  3. Start the engine and operate until normal operating temperature is achieved, and the thermostat is fully open.

[ ]  4. 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 \_\_\_\_\_\_**

[ ]  5. 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 \_\_\_\_\_\_**

 [ ]  6. Reinstall any shrouds removed to gain access to the radiator.

 [ ]  7. Based on the inspection and temperature tests, what is the necessary action? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

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