

# Engine Fan Inspection and Testing

Meets NATEF Task: (A1-D-10) Inspect and test fans(s) (electrical or mechanical), fan clutch, fan shroud, and air dams. (P-1)

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

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

\_\_\_\_\_ 1. Identify the type of cooling fans.

\_\_\_\_\_ Engine driven

\_\_\_\_\_ Electric (If electric, one or two fans? \_\_\_\_\_)

\_\_\_\_\_ Hydraulically operated



\_\_\_\_\_ 2. If mechanical, check the fan clutch for fluid (silicone fluid) leakage or other damage.

OK \_\_\_\_\_ NOT OK \_\_\_\_\_ Describe the fault: \_\_\_\_\_

\_\_\_\_\_ 3. Check the mechanical fan clutch for proper operation by placing cardboard over the front of the radiator and start the engine. Allow the engine to reach normal operating temperature. As the temperature of the coolant increases above the normal temperature range, the fan noise should increase indicating that the fan clutch has engaged.

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

\_\_\_\_\_ 4. Inspect the fan shroud for damage or if the shroud is missing.

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

\_\_\_\_\_ 5. Inspect that the air dam underneath the front of the vehicle is in place and not missing or damaged.

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

\_\_\_\_\_ 6. From the inspection above, what is the necessary action? \_\_\_\_\_