

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? _____