

Exhaust Analysis

Student/Intern information:

Name _____ Date _____ Class _____

Vehicle used for this activity:

Year _____ Make _____ Model _____

Odometer _____ VIN _____

| Learning Objective/Task | CDX Tasksheet Number | 2017 MAST NATEF Reference Number; Priority Level |
|--|----------------------------|--|
| • Diagnose emission and driveability concerns caused by catalytic converter system; determine needed action. | C714 | 8E6; P-2 |
| • Diagnose the cause of excessive oil consumption, coolant consumption, unusual exhaust color, odor, and sound; determine needed action. | C391 | 8A4; P-2 |

Time off _____

Time on _____

Total time _____

Materials Required

- Vehicle or simulator
- Exhaust gas analyzer
- Exhaust hose(s)
- Vehicle with unusual exhaust condition
- Problem-specific tools and equipment, such as stethoscope, compression tester, back pressure gauge, scan tool, etc.

Some Safety Issues to Consider

- When running any vehicles in the shop, make sure you use the shop's exhaust ventilation system to discharge all exhaust gas safely outside.
- Diagnosis of this fault may require test-driving the vehicle on the school grounds or on a hoist, both of which carry severe risks. Attempt this task only with full permission from your supervisor/instructor and follow all the guidelines exactly.
- You will be working under the hood of a running vehicle. Keep your hands and fingers away from moving belts, fans, and other parts.
- This task may require that the engine is loaded while running, which requires the use of wheel chocks to help prevent the vehicle from rolling. Never stand, or allow anyone else to stand, directly in front of or behind the vehicle while performing this procedure.
- Comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations.

Performance Standard

0–No exposure: No information or practice provided during the program; complete training required

1–Exposure only: General information provided with no practice time; close supervision needed; additional training required

2–Limited practice: Has practiced job during training program; additional training required to develop skill

3–Moderately skilled: Has performed job independently during training program; limited additional training may be required

4–Skilled: Can perform job independently with no additional training