

# Fuel Composition Tester

**Meets NATEF Task:** (A8-D-2) Check fuel for contaminants and quality; determine necessary action. (P-2)

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

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

A fuel composition tester is used to determine the percentage of alcohol in a gasoline sample.

\_\_\_\_\_ 1. Check service information for the specified method of taking a fuel sample from the vehicle.

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\_\_\_\_\_ 2. Follow the instructions of the tester to determine the alcohol content of the gasoline. The normal procedure for one type of tester states:

- a. Connect a DMM and set to read AC Hertz. Verify the proper tool and meter hookup by checking the air frequency (normally between 35 and 48 Hertz).
- b. Pour the sample gasoline into the testing cell of the tool.
- c. Record the AC frequency of the sample and subtract 50. The number that results is the percentage of alcohol.

\_\_\_\_\_ 3. What is the air frequency? \_\_\_\_\_

\_\_\_\_\_ 4. What is the frequency of the gasoline sample? \_\_\_\_\_

\_\_\_\_\_ 5. Subtract 50 from the number in #4. What is the alcohol content of the gasoline sample?

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\_\_\_\_\_ 6. Based on this test, what action is necessary?

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