



A Program of ASTM International

Test Monitoring Center

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Sequence IVA Information Letter 20-1
Sequence Number 26
December 1, 2020

ASTM consensus has not been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.

TO: Sequence IVA Mailing List

SUBJECT: 1. Removal of Fuel Specification from Test Method
2. Use of Alternative Fuel Pump

1. During the November 19, 2020 Sequence IV Surveillance Panel Conference call, the panel agreed to an updated fuel specification. The panel further agreed that this specification will no longer appear in the Test Method, but would be posted on the TMC website. Section 7.2 has been revised to remove reference to Annex A8. This change is effective with the issuance of this letter.
2. Recently, it was noted that an approved alternate fuel pump, Ford Part number E7TZ-9C407-BA, was not included in the most recent version of the test method. Section 6.3.5 has been modified to allow the use of this pump. This change went into effect February 6, 2017.

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Chairman
Sequence IVA Surveillance Panel

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Attachment

c: http://www.astmtmc.cmu.edu/docs/gas/sequenceiv/procedure_and_ils/il20-1.pdf

Distribution: Email

Revises Test Method D 6891-15

6.3.5 *Fuel Supply System*—This test method requires approximately 200 L of unleaded Haltermann KA24E Green test fuel^{14,12} per test (100 cycles). Ensure a sufficient fuel supply at the start of test to conduct the test without a shutdown. Use the production port fuel injection system, including fuel pump (see **Annex A7**), fuel injector rail, and fuel pressure regulator. Ford fuel pump, E7TZ-9C407-BA¹⁵ may also be used in this application. Use recirculated fuel within the system using a non-production heat exchanger to maintain fuel temperature ranging from 15 °C to 30 °C. Measure fuel consumption using a mass flow meter (MicroMotion^{16,12} model D-6 is suitable). Install a fuel filter assembly (see **Annex A7**) upstream of the fuel pump. Ensure proper fuel filtration to maintain precise air-fuel ratio control during the test.

Add new footnote 15:

¹⁵ Can be purchased through Ford or Lincoln Mercury Dealers

Renumber existing footnotes 15 – 25 as 16-26

7.2 *Fuel*—7.2 *Fuel*—Use Haltermann KA24E Green test fuel for this test method. **The specification for this fuel is available from the TMC website: <http://www.astmtmc.org>.** (**Warning**—Flammable. Health hazard.) It is dyed green to preclude unintentional contamination with other test fuels. Use approximately 200 L of fuel for each test (100 cycles). This fuel has a hydrogen-to-carbon ratio of 1.80 to 1.

Delete Annex A8 and renumber existing Annex A9 as A8