



Test Monitoring Center

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SEQUENCE VIB INFORMATION LETTER 04-1

SEQUENCE NUMBER 17

January 30, 2004

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 VIB Mailing List

SUBJECT: 1. Micro Motion Transmitters
2. Change in Calibration Requirements for Oil Heater
3. Editorial Changes Relating to Precision Statements

1. Recently, the Sequence VIB Surveillance Panel agreed to allow the use of additional Micro Motion transmitters for measurement of fuel flow. Section 6.7.2 has been revised to delineate these additional transducers.
2. The panel also agreed to specify a separate calibration regime for the oil heater temperature measuring device. Because this device is inserted into the oil heater Cerrobased material, removal of the thermocouple and reinstallation would create a high potential for damage. The panel agreed to calibrate this channel prior to insertion into the Cerrobased. Section 10.2.6 has been revised to include a statement that the oil heater thermocouple be calibrated prior to insertion.
3. Several editorial changes were recommended as an outcome of Section D0.02.B0.9 and D0.02.B0.10 meetings in December, 2003 regarding precision statements in ASTM test methods. Section 14.1.2 has been revised to remove the phrase (formerly called repeatability) and add a note referencing intermediate precision as the appropriate term for this method.

The revised sections of Test Method D 6837 are attached. These changes are effective the date of this information letter.

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Product Engineering
Ford Motor Company

John L. Zalar
Administrator
ASTM Test Monitoring Center

Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/procedure_and_ils/il04-1.pdf

Distribution: Email

Revises Test Method D 6837-02, as amended by Information Letters 03-1, 03-2, and 03-3

6.7.2 *Fuel Flow Measurement*—Fuel flow rate measurement is critical and is measured throughout the test. A Micro Motion Model D-6 mass flow meter with an RFT9712 Smart Family or RFT9739 transmitter or a Model CFM010 mass flow meter with an RFT9739 Transmitter is specified. Series 1700 and 2700 transmitters have also been found to be acceptable in this application (see X1.24). The Micro Motion sensor may be mounted in a vertical or a horizontal position.

10.2.6 *Other Instrumentation*—As a minimum, calibrate instrumentation for measuring parameters other than those detailed in 10.2-10.2.5 after every 10 non-reference oil tests or every 90 days, whichever comes first. Calibrate the oil heater instrumentation prior to installation into the Cerrobath.

14.1.2 *Intermediate Precision Conditions*—Conditions where test results are obtained with the same test method using the same test oil, with changing conditions such as operators, measuring equipment, test stands, test engines, and time.

Note 8—Intermediate precision is the appropriate term for this test method rather than repeatability, which defines more rigorous within-laboratory conditions.