



Test Monitoring Center

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ISM INFORMATION LETTER 07-1

Sequence No. 1

February 8, 2007

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

TO: Cummins Mailing List

SUBJECT: 1. Temperature, Pressure, and Flow Rate Measurement Reference Document Change
2. Non-Interpretable Tests and Stand Calibration Period
3. Substitute Fuel Sulfur Measurement Dropped

The Cummins Surveillance Panel approved the following changes to the ISM test procedure:

1. The Data Acquisition and Control Automation II Task Force Report (DACA II) has replaced RR:D02-1218 for specifying the accuracy and resolution of temperature, pressure, and flow rate measurement systems. Sections 8.3.3.1, 8.3.4.1, and 8.3.5.1 have been modified accordingly.
2. Section 9.3 has been modified to reflect that non-interpretable tests count against the twelve test limit for the stand calibration period.
3. Test Method D 129 has been removed from the list of substitute fuel sulfur measurement methods. Section 11.8.1.2 has been modified accordingly.

The modified sections of the procedure are attached. The updated version of the test procedure, designated as "ISM Procedure (Draft 10)", is available in its entirety from the TMC web site (www.astmtmc.cmu.edu/docs/diesel/cummins/procedure_and_ils/ISM) or by contacting the TMC for a hardcopy.

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Attachment

c: ftp://astmtmc.cmu.edu/docs/diesel/cummins/procedure_and_ils/ISM/il07-1.pdf

Distribution: Email

Remove from Section 2.1:

D 129 Standard Test Method for Sulfur in Petroleum Products

8.3.3.1 Measurement Location – The temperature measurement locations are specified in this section. The measurement equipment is not specified. Install the sensors such that the tip is located midstream of the flow unless otherwise indicated. Follow the guidelines detailed in the Data Acquisition and Control Automation II Task Force Report¹⁶ for the accuracy and resolution of the temperature measurement sensors and the complete measurement system.

8.3.4.1 Measurement Location and Equipment – The pressure measurement locations are specified in this section. The measurement equipment is not specified. Follow the guidelines detailed in the Data Acquisition and Control Automation II Task Force Report¹⁶ for the accuracy and resolution of the pressure measurement sensors and the complete measurement system.

8.3.5.1 Flow Rate Location and Measurement Equipment — The flow rate measurement locations are specified in this section. The equipment for the blow-by rate and the fuel rate are not specified. Follow the guidelines detailed in the Data Acquisition and Control Automation II Task Force Report¹⁶ for the accuracy and resolution of the flow rate measurement system.

9.3 Stand Calibration Period – The calibration period is 12 months for the first two calibration periods, and 18 months for subsequent calibration periods. Up to 12 operationally valid, non-reference oil tests, including any non-interpretable tests, may be completed during each calibration period.

11.8.1.2 Total Sulfur, % wt., Test Method D 5453 (D 2622 or D 4294 can be substituted)