



Test Monitoring Center

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L-33-1 Information Letter No. 05-1
Sequence No. 4
February 21, 2005

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

TO: L-33-1 Mailing List

SUBJECT: 1. Revised Solvent Specification
2. Revised Cover Plate Guide Pin Requirement
3. Updated Test Precision
4. Donated Reference Oil Test Programs/Calibration Period Length Adjustment
5. Revised Footnote 2

1. At the February 2, 2005 L-33-1 Surveillance Panel meeting, the panel approved a motion to revise the cleaning solvent specification in Test Method D7038. The solvent shall meet the Aromatic Content, Flash Point, and Color specifications for Type II, Class C mineral spirits listed in Specification D235. Test laboratories are also required to obtain a Certificate of Analysis for each batch of solvent. Section 7.2 has been revised. This change is effective the date of this information letter.

2. At the February 2, 2005 L-33-1 Surveillance Panel meeting, the panel approved a motion to require the use of four cover plate guide pins instead of two. Section A4.8 of has been revised. This change is effective the date of this information letter.


3. At the December 2004 ASTM meetings, Committee D02 advised its membership that whenever a test method is revised, the precision statement should be reviewed and updated as necessary. Section 14.1.1 and Table 2 have been revised.

4. On November 8, 2004, ASTM Subcommittee D02.B approved a recommendation from the Test Monitoring Board to revise test methods monitored by the Test Monitoring Center regarding the shortening or lengthening of reference oil calibration periods and surveillance panels' use of donated reference oil test programs. This revision provides consistent language for the procedures and clarification to the end users. New Sections 10.1.3.1, 10.1.3.1(1), 10.1.3.1(2), 10.1.3.1(3), 10.1.3.1(4), and 10.1.4 are attached. Old Section 10.1.2.2(1) has been renumbered to new Section 10.1.3, old Section 10.1.3 has been renumbered to new Section 10.1.5, and old Section 10.1.4 has been renumbered to new Section 10.1.6.

5. Footnote 2 has been revised to indicate the most recent information letter update that is included in the current edition of the test method.



Dale Smith
Chairman
L-33-1 Surveillance Panel



John L. Zalar
Administrator
ASTM Test Monitoring Center

Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/gears/1331/procedure_and_ils/il05-1.pdf

Distribution: Email

(Revises Test Method D 7038-04 as amended by Information Letter 03-2)

7.2 *Cleaning Solvent*--Solvent meeting ASTM D 235 – Type II, Class C requirements for Aromatic Content (0-2% vol), Flash Point (142°F/61°C, min) and Color (not darker than +25 on Saybolt Scale or 25 on Pt-Co Scale) may be used. (**Warning**—Combustible. Health hazard.) Obtain a Certificate of Analysis for each batch of solvent from the supplier.

A4.8 Rate the V99.1 and all subsequent hardware with the cover plate template shown in Fig. A1.14. Use four guide pins to position the cover plate template as shown in Fig. A1.14.

Renumber 10.1.2.2(1) to 10.1.3

10.1.3.1 Reference oil test frequency may be adjusted due to the following reasons:

(1) *Procedural Deviations* – On occasions when a laboratory becomes aware of a significant deviation from the test method, such as might arise during an in-house review or a TMC inspection, the laboratory and the TMC shall agree on an appropriate course of action to remedy the deviation. This action may include the shortening of existing reference oil calibration periods.

(2) *Parts and Fuel Shortages* – Under special circumstances, such as industry-wide parts or fuel shortages, the surveillance panel may direct the TMC to extend the time intervals between reference oil tests. These extensions shall not exceed one regular calibration period.

(3) *Reference Oil Test Data Flow* – To ensure continuous severity and precision monitoring, calibration tests are conducted periodically throughout the year. There may be occasions when laboratories conduct a large portion of calibration tests in a short period of time. This could result in an unacceptably large time frame when very few calibration tests are conducted. The TMC can shorten or extend calibration periods as needed to provide a consistent flow of reference oil test data. Adjustments to calibration periods are made such that laboratories incur no net loss (or gain) in calibration status.

(4) *Special Use of the Reference Oil Calibration System* – The surveillance panel has the option to use the reference oil system to evaluate changes that have potential impact on test severity and precision. This option is only taken when a program of donated tests is not feasible. The surveillance panel and the TMC shall develop a detailed plan for the test program. This plan requires all reference oil tests in the program to be completed as close to the same time as possible, so that no laboratory/stand calibration is left in an excessively long pending status. In order to maintain the integrity of the reference oil monitoring system, each reference oil test is conducted so as to be interpretable for stand calibration. To facilitate the required test scheduling, the surveillance panel may direct the TMC to lengthen and shorten reference oil calibration periods within laboratories such that the laboratories incur no net loss (or gain) in calibration status.

10.1.4 *Donated Reference Oil Test Programs* – The Surveillance Panel is charged with maintaining effective reference oil test severity and precision monitoring. During times of new parts introductions, new or re-blended reference oil additions, and procedural revisions, it may be necessary to evaluate the possible effects on severity and precision levels. The surveillance panel may choose to conduct a program of donated reference oil tests in those laboratories participating in the monitoring system, in order to quantify the effect of a particular change on severity and precision. Typically, the surveillance panel requests its panel members to volunteer enough reference oil test results to create a robust data set. Broad laboratory participation is needed to provide a representative sampling of the industry. To ensure the quality of the data obtained, donated tests are conducted on calibrated test stands. The surveillance panel shall arrange an appropriate number of donated tests and ensure completion of the test program in a timely manner.

Renumber old 10.1.3 to 10.1.5

Renumber old 10.1.4 to 10.1.6

(Revises Test Method D 7038-04 as amended by Information Letter 03-2)

14.1.1 Test precision is established on the basis of operationally valid reference oil test results monitored by the TMC. Test precision shown in Table 2 is considered current as of February 16, 2005. Research Report RR: D02-1554²¹ contains industry data developed prior to establishment of this test method.

Table 2

Variable, Merits	Intermediate Precision		Reproducibility	
	S _{i.p.} ^A	i.p. ^B	S _R ^A	R ^B
Rust ^C	0.25	0.70	0.25	0.70

^A S = standard deviations.

^B This value is obtained by multiplying the standard deviation by 2.8.

^C These statistics are based on results obtained on TMC Reference Oil 151-3 from June 24, 2002 to October 1, 2003.

² Until the next revision of this test method, the ASTM Test Monitoring Center (TMC) will update changes in this test method by means of Information Letters. This edition includes all Information Letters through No. 05-1. Information Letters may be obtained from the ASTM Test Monitoring Center, 6555 Penn Ave, Pittsburgh, PA 15206, Attn: Administrator. The TMC is also the source of reference oils.