



Test Monitoring Center

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L-60-1 Information Letter 03-3
Sequence Number 24
May 6, 2003

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

TO: L-60-1 Mailing List

SUBJECT: 1. Non-interpretable Tests
2. Revised Heater Blower Air Output Specification
3. Digital Manometer
4. Revisions to the Use of Warning Statements

1. At the April 8, 2003 L-60-1 Surveillance Panel meeting, the panel approved a motion that any non-reference oil test that has not been run in a calibrated test stand and/or not conducted on approved hardware be considered non-interpretable. The cover page of the test report shall indicate that the test is non-interpretable and has not been conducted in a valid manner in accordance with Test Method D5704. New Section 9.5 of Test Method D5704 is attached. This change is effective the date of this information letter.

2. At the April 8, 2003 L-60-1 Surveillance Panel meeting, the panel approved a motion to change the heater blower air output specification. A revised Section 6.1.8 of Test Method D5704 is attached. This change is effective with the next reference oil test on or after April 30, 2003.

3. At the April 8, 2003 L-60-1 Surveillance Panel meeting, the panel approved a motion to specify a digital manometer to be used with the specified venturi meter measuring device to confirm the heater blower air output. A revised Section 6.1.8.1 of Test Method D5704 is attached. This change is effective with the next reference oil test on or after April 30, 2003.

4. Editorial changes were made to several warning statements. Revised Sections 7.3, 7.5, 7.6, 7.7, 8.3, and 8.7.11 of Test Method D5704 are attached.

Chris Schenkenberger
Chairman
L-60-1 Surveillance Panel

John L. Zalar
Administrator
ASTM Test Monitoring Center

Attachment

c: ftp://ftp.astmtmc.emu.edu/docs/gears/l601/procedure_and_ils/il03-3.pdf

Distribution: Email

(Revises Test Method D 5704-00a as amended by Information Letters 02-1 through 03-2)

6.1.8 *Heater Blower*—The heater blower system shall supply to the insulated oven assembly 29.5 ± 5 ft³/min (835 ± 142 L/min) of air (at free flow conditions) through the 2 1/8-in. (54-mm) diameter blower opening as shown in the engineering drawings. The heater blower may be a cage type blower wheel powered by an electric motor or powered by way of a toothed belt from the main drive shaft. In all cases, meet the specified air flow while maintaining other test parameters at their specified value.

6.1.8.1 Confirm the heater blower system air flow with a Preso Low Loss Venturi Meter¹⁷ (2-in. model LPL-200NF-38) with carbon steel body, 1/4-in. NPT instrument connections and 2-in. 150-lb. raised face process connections and a Dwyer digital manometer¹⁸, part number 475-00-FM.

¹⁸JF Good Company
11200 Madison Avenue
Cleveland, OH 44102

Renumber Footnotes 18 through 27 to 19 through 28

7.3 *Organic Cleaning Agent*. (**Warning**—Combustible. Health hazard) (see Annex A3).^{20,21,14}

7.5 *Stoddard Solvent*, commercial grade, conforming to the requirements of Specification D 235 (**Warning**—Combustible. Health hazard).

7.6 *Toluene*, commercial grade. (**Warning**—Flammable. Health hazard). An example of a satisfactory volatile hydrocarbon solvent.

7.7 *Heptane*, commercial grade (**Warning**—Flammable. Health hazard). An example of a satisfactory volatile hydrocarbon solvent.

8.3 *Gear Case*—Using the organic cleaning agent (see 7.3), clean the gear case, vent tube, vent tube baffle, retainer bushings, seal sleeves, case cover plate, seal plate, nuts, studs, flat washers, baffle plate, spacer bushings, bearing bushings and clamp, keys, shaft ends, shaft nuts, and catalysts. Nylon bristle brushes and long pipe cleaners can be used to aid cleaning. Since the proper operation of the apparatus depends upon the maintenance of numerous accurately machined surfaces, do not use steel brushes or abrasive cloth materials except as noted in 8.4. Following the cleaning procedure with an organic cleaning agent, wash parts thoroughly with Stoddard solvent (see 7.5), and finally with a volatile hydrocarbon solvent (see 7.6 or 7.7), to facilitate air drying. Allow parts to air dry.

8.7.11 Install the large gear (GA-50) on the lower shaft and the small gear (GA-34) on the upper shaft along with the shaft keys. Install the test gears so that the manufacturer's name faces the front of the case. Install the retaining nuts and torque to approximately 90 lbf·in. (approximately 10 N·m). The gear retaining nuts are different since the lower shaft is right-hand thread and the upper shaft is left-hand thread.

9.5 Consider as non-interpretable any non-reference oil test that has not been run in a calibrated test stand or not conducted on approved hardware, or both. Indicate on the cover page of the test report that the test is non-interpretable and that it has not been conducted in a valid manner in accordance with the test method.

Insert the following note after Section 15.1 and before Section 15.2.

Note 4—If non-reference oil test results are to be used as candidate oil test results against a specification, report the non-reference oil test results on the same standardized report form set and data dictionary as used for reference oil test results.