



Test Monitoring Center

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L-60-1 Information Letter 03-5
Sequence Number 26
September 29, 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: Cleaning Solvent Specification

At the August 27, 2003 L-60-1 Surveillance Panel meeting, the panel approved a motion to revise the cleaning solvent specification to D 235 – Type II, Class C. Sections 7.5, 8.3, 8.4, 8.4.1, 8.5, 8.6.3, 12.1.2, and 12.1.4 of Test Method D5704 have been revised. The effective date for this change is January 1, 2004.

Chris Schenkenberger
Chairman
L-60-1 Surveillance Panel

John L. Zalar
Administrator
ASTM Test Monitoring Center

Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/gears/l601/procedure_and_ils/il03-5.pdf

Distribution: Email

7.5 *Cleaning Solvent*, A solvent meeting Specification D 235 – Type II, Class C.

(**Warning**—Combustible. Health hazard).

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 cleaning 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.

8.4 *Test Gears*—Thoroughly clean the test gears with cleaning solvent (see 7.5). Carefully examine the gear teeth for nicks and burrs. Do not use gears with major imperfections. Redress minor gear teeth imperfections with a fine stone or file.

8.4.1 Prepare each gear with one piece of Screen-Kut silicon carbide C-180 paper²³. Use one side of the silicon carbide paper to prepare one side of a gear. Use the opposite side of the silicon carbide paper to prepare the opposite side of the gear. Place a piece of silicon carbide paper on a solid surface that has a thickness greater than or equal to ½ in. Saturate the entire silicon carbide paper with cleaning solvent (see 7.5). Sand both sides of the test gears, with the required gear holder apparatus (Section 6.1.16), on the silicon carbide paper using a figure eight motion. Do not apply a downward force to the gear holder while sanding. Sand the gears until the manufacturer's machining marks are removed. Prepare the test gears prior to the catalyst. A third sheet of silicon carbide paper may be used to prepare the catalyst strips. After final examination, wash gears once more with cleaning solvent (see 7.5) and finally with a volatile hydrocarbon solvent, to facilitate air drying. Allow gears to air dry. If the gears are not to be used immediately, wrap them in a paper towel and Nox-Rust paper²⁴. Start the test within 24 h after polishing is completed.

8.5 *Test Bearing*—Prior to installation, wash the test bearing first with cleaning solvent (see 7.5), and finally with a volatile hydrocarbon solvent, to facilitate drying. Allow the bearing to air dry.

8.6.3 Wipe both catalyst strips with absorbent cotton pads moistened with cleaning solvent (see 7.5), and wash with a volatile hydrocarbon solvent, to facilitate drying. Allow catalyst strips to air dry.

12.1.2 Wash in cleaning solvent (see 7.5).

12.1.4 Wash in cleaning solvent (see 7.5).