



Test Monitoring Center

6555 Penn Avenue
Pittsburgh, PA 15206-4489
(412) 365-1000

L-60-1 Information Letter 03-1
Sequence Number 22
January 21, 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. Revised End of Test Oil Drain Procedure
2. Pre-Test Gear Preparation

1. At the September 18, 2002 L-60-1 Surveillance Panel meeting, the panel approved a motion to revise the E.O.T oil drain procedure. A revised Section 10.9 of Test Method D 5704 is attached. This change is effective December 1, 2002.

2. At the November 20, 2002 L-60-1 Surveillance Panel meeting, the panel approved a motion to revise the pre-test gear preparation procedure and the use of an apparatus to hold the gears. Revised Section 8.4, new Annex A9, new Sections 6.1.16 and 8.4.1, 8.4.2 and new Footnotes 23 and 24 of Test Method D 5704 are attached. This change is effective December 1, 2002.

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/1601/procedure_and_ils/il03-1.pdf

Distribution: Email

6.1.16 *Gear Holder Apparatus*, used to hold the test gears during preparation (Annex 9).

8.4 *Test Gears*—Thoroughly clean the test gears with Stoddard solvent. 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 Stoddard solvent. 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 Stoddard solvent 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.

8.4.2 Discard the test gears if not used within 24 h.

10.9 At the completion of the oil weight loss calculation transfer the entire oil drain, including solids, from the weighed container into a single sample bottle for kinematic viscosity and pentane and toluene insolubles evaluation as outlined in Section 13. The single sample bottle contents shall be homogenous prior to kinematic viscosity and pentane and toluene insolubles evaluation.

²³ McMaster-Carr Supply Company, part number 4677A14

²⁴ **DaubertVCI, Inc.**

1333 Burr Ridge Parkway, Suite 200
Burr Ridge, IL 60527 USA
1-800-535-3535

Renumber Footnotes 23 and 24 as 25 and 26.

A9. GEAR HOLDER APPARATUS

A9.1 Figure A9.1 and Figure A9.2 are diagrams of the gear holders used to prepare the test gears.

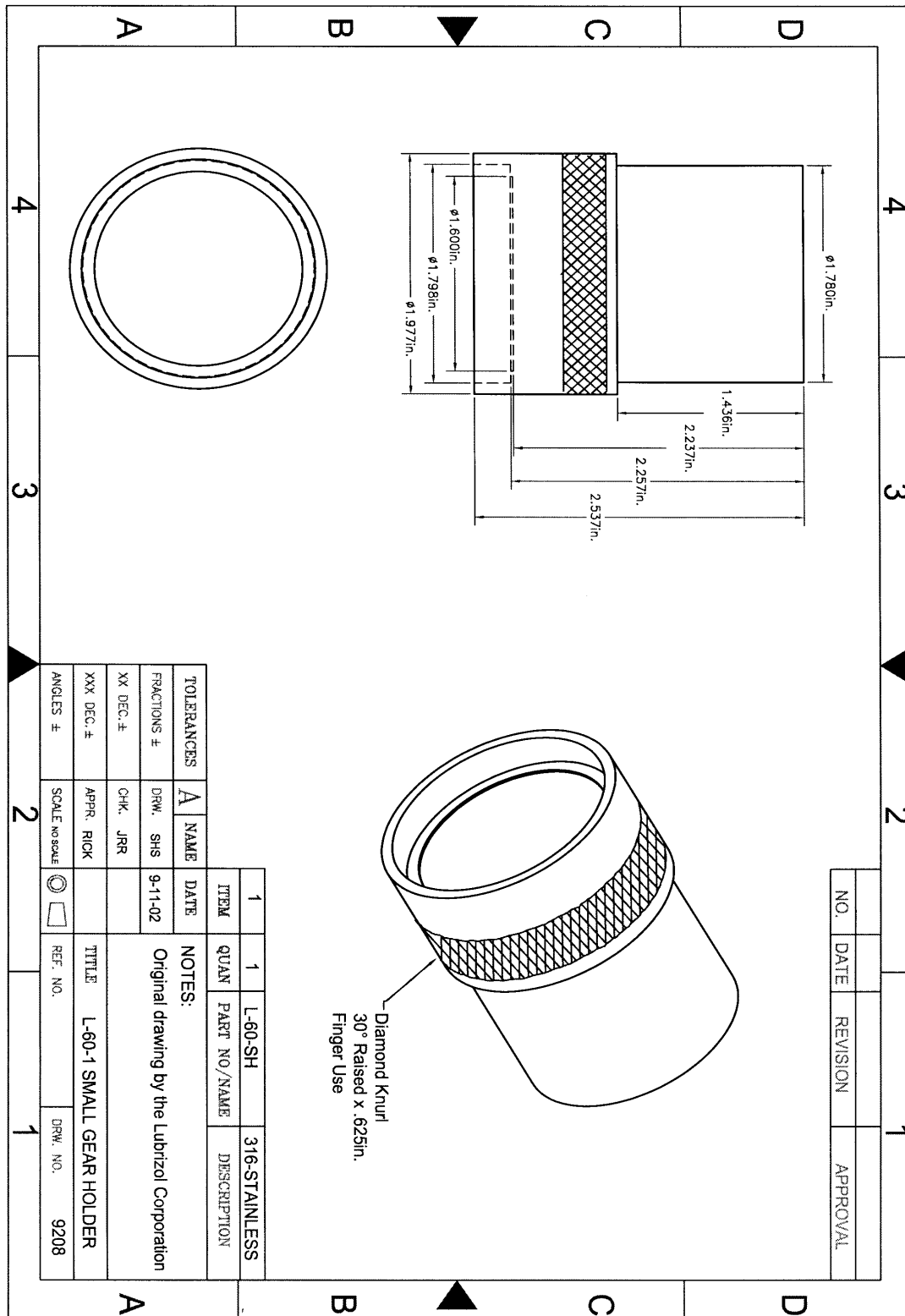


FIG A9.1 Small Gear Holder

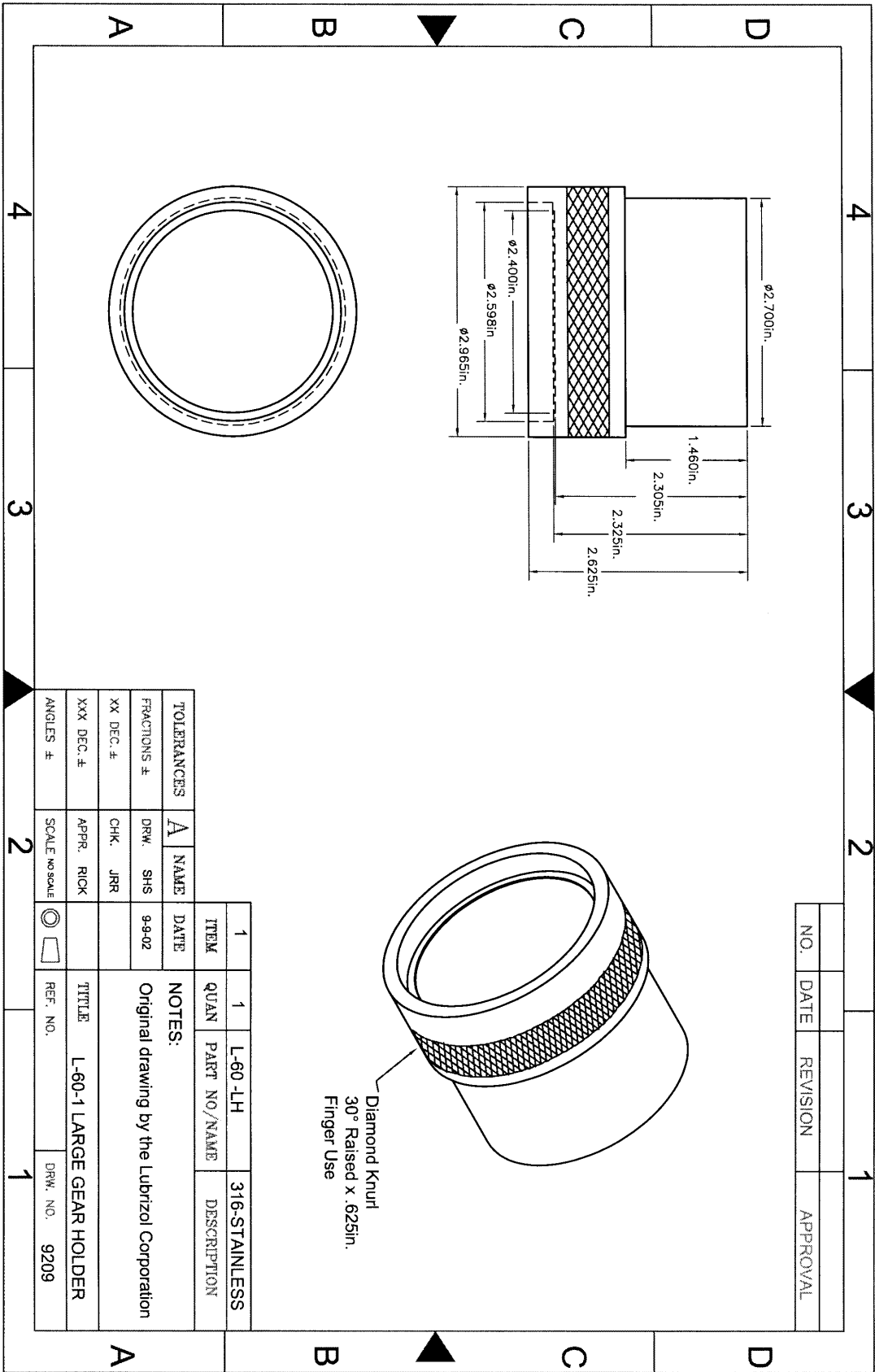


FIG A9.2 Large Gear Holder