Test Monitoring Center
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L-60-1 Information Letter 02-2
Sequence Number 21
August 23, 2002

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. Gear Preparation
2 Shaft Oil Lip Seals
3. Speedi-Sleeve
4. Joint Radial Seal (V Ring)
5. End of Test Oil Drain
6. Instrument Calibration Frequency

At the July 10, 2002 L-60-1 Surveillance Panel meeting, the panel approved the following changes to Test Method D 5704:

1. Start the test within 24 hrs after polishing the test gears. Test gears cannot be reused. A revised Section 8.4 is attached. This change is effective with the next reference oil test after July 10, 2002.

2. Two Chicago Rawhide oil lip seals, part number CR-6383, are required. A revised Section 6.1.13 and footnote 19 are attached. This change is effective with the next reference oil test after July 10, 2002.

3. Two Chicago Rawhide speedi-sleeves, part number CR-99062, are required. A new Section 6.1.14 and footnote 19 are attached. This change is effective with the next reference oil test after July 10, 2002.

4. Two Chicago Rawhide joint radial seals (V-ring), part number CR-400164, are required. A new Section 6.1.15 and footnote 19 are attached. This change is effective with the next reference oil test after July 10, 2002.

5. At the completion of the oil weight loss calculation, the entire E.O.T. drain shall be transferred into a single sample bottle for kinematic viscosity and pentane and toluene insolubles evaluation as outlined in Section 13. Attached is a new Section 10.9. The old Section 10.9 has been renumbered to Section 10.10. The effective date is July 10, 2002.

6. Prior to the start of a calibration cycle on a stand, calibrate the alternator output, large gear shaft speed, and blower motor output to a traceable standard. Attached is a new Section 9.4. The effective date is July 10, 2002.

Jerrold L. Gropp
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/il02-2.pdf

Distribution: Email

6.1.13 *Lip Seals*, two Chicago Rawhide shaft oil lip seals, part number CR-6383, are required.[19,14]

6.1.14 *Speedi-sleeve,* two Chicago Rawhide speedi-sleeves, part number CR-99062, are required.[19,14]

6.1.15 *Joint Radial Seal,* two Chicago Rawhide joint radial (V-ring) seals, part number CR-400164, are required. [19,14]

8.4 *Test Gears*—Polish the sides of the test gear with 180-grit silicon carbide paper, and wash with Stoddard solvent. Carefully examine the gear teeth for nicks and burrs. Do not use gears with major imperfections. Minor imperfections should be redressed with a fine stone. 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. Start the test within 24 hrs after polishing is completed. Discard the test gears if not used within 24 hrs.

9.4 *Instrumentation Calibration*—Calibrate the large gear shaft speed system, alternator output system, blower motor output system, air flow controller system, air box temperature control system, and oil temperature control system prior to a reference oil test against known standards traceable to NIST.

10.9 At the completion of the oil weight loss calculation transfer the entire oil drain from the weighed container into a single sample bottle for kinematic viscosity and pentane and toluene insolubles evaluation as outlined in Section 13.

Old Section 10.9 is renumbered to Section 10.10.

[19] R-14 10 ball bearing, No. 2-153 (seal plate O-ring), No. 2-264 (cover plate O-ring), CR-6383 seals, CR-400164 seals, and CR-99062 speedi-sleeves are available from Motion Industries, 4620 Hinckley Parkway, Cleveland, OH 44109.