



Test Monitoring Center

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L-37 Information Letter 10-1
Sequence Number 40
February 26, 2010

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-37 Mailing List

SUBJECT: 1. Reduced Torque Requirements for Gear Batch V1L500/P4T813
2. New Stand Calibration Requirement

1. At the February 3, 2010 L-37 Surveillance Panel teleconference meeting, the panel approved a motion allowing the use of non-lubrited gear batch V1L500/P4T813. This gear batch required a reduction of 13% to the contact stress level. The reduced contact stress level is obtained by lowering the dynamometer torque 30% during the gear test phase. This requirement was necessary due to the inability of this gear batch to produce acceptable test results at the current test conditions. A revised Section 10.2.3.1 and new Annex A6.4 and 6.4.1 of Test Method D 6121 are attached.
2. At the February 3, 2010 L-37 Surveillance Panel teleconference meeting, the panel approved a motion that allows laboratories to alternate gear batches using different dynamometer torque conditions within a calibration period. A new Section 9.6 of Test Method D 6121 is attached.

These changes are effective February 5, 2010.

Galen Greene
Chairman
L-37 Surveillance Panel

Frank Farber
Administrator
ASTM Test Monitoring Center

Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/gear/l-37/procedure_and_ils/il10-1.pdf

Distribution: Electronic Mail

(Revises Test Method D 6121-09 as amended by Information Letter 09-2)

9.2.7 Within a calibration period alternate testing using different gear batches and dynamometer torque conditions does not necessitate recalibration.

10.2.3.1 Once the axle lubricant temperature reaches 175 ± 3 °F (1.0 °C \pm 1.7 °C), immediately apply dynamometer torque to achieve a torque of 1740 ± 35 lbf-ft (2359 N-m \pm 47 N-m) on each wheel. When conducting tests with non-lubricated gear batch V1L500/P4T813, use the 13 % reduced contact stress requirements (see A6.4.1).

A6.4 L-37 13 % Reduced Contact Stress Test Requirements

A6.4.1 Once the axle lubricant temperature reaches 175 ± 3 °F (1.0 °C \pm 1.7 °C), immediately apply dynamometer torque to achieve a torque of 1213 ± 25 lbf-ft (1645 N-m \pm 34 N-m) on each wheel.