



# Test Monitoring Center

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L-42 Information Letter No. 05-3  
Sequence No. 22  
June 29, 2005

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

TO: L-42 Mailing List

SUBJECT: Low Temperature Test Annex

At the June 15, 2005 L-42 Surveillance Panel meeting, the panel approved a motion to add an Annex to the L-42 procedure detailing different versions of the L-42 test. Sections 5.2.9 and 5.5.1 have been revised and a new Annex A2 has been added to the L-42 procedure (STP 512A). This change is effective the date of this information letter.

The updated version of the L-42 test procedure is available in its entirety from the TMC web site ([ftp://ftp.astmtmc.cmu.edu/docs/gear/l42/procedure\\_and\\_ils](ftp://ftp.astmtmc.cmu.edu/docs/gear/l42/procedure_and_ils)) or by contacting the TMC for a hard copy. The revised sections of the L-42 test procedure are attached.

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Chairman  
L-42 Surveillance Panel

John L. Zalar  
Administrator  
ASTM Test Monitoring Center

Attachment

c: [ftp://ftp.astmtmc.cmu.edu/docs/gear/l42/procedure\\_and\\_ils/il05-3.pdf](ftp://ftp.astmtmc.cmu.edu/docs/gear/l42/procedure_and_ils/il05-3.pdf)

Distribution: Email

5.2.9 Allow test oil temperature to drop to  $200 \pm 5^\circ\text{F}$  ( $93.3 \pm 2.8^\circ\text{C}$ ) before resuming test. See Annex A2 for alternate versions.

5.5.1 With cooling water off, allow lubricant temperature to cool to  $280^\circ\text{F}$  ( $137.8^\circ\text{C}$ ) before starting. Record the starting temperature. See Annex A2 for alternate versions.

## Annex 2

### L-42 Test Versions

*Test versions* - This test has two commonly used versions. The test procedures and conditions described previously in this method will be referred to as the standard version. All versions maintain the same test procedures, pinion loads, and wheel speed conditions. The differences occur in the axle oil temperature only. Table A2.1 below describes each version.

Table A2.1

**Test Versions<sup>A,B</sup>**

Test Version	Sequence 2 <u>Starting Temperature</u>	Sequence 4 <u>Starting Temperature</u>
Standard	200 $\pm$ 5 $^\circ\text{F}$ (93.3 $^\circ\text{C}$ )	See Section 5.5.1
Canadian	175 $\pm$ 5 $^\circ\text{F}$ (79.4 $^\circ\text{C}$ )	200 $\pm$ 5 $^\circ\text{F}$ (93.3 $^\circ\text{C}$ )

NOTE 6: In sequence 4 for the Canadian test method, the cooling water control set point is set to  $200^\circ\text{F}$  ( $93.3^\circ\text{C}$ ). The maximum rise during sequence 4 is to be  $15^\circ\text{F}$  ( $8.3^\circ\text{C}$ ).

*A* Both versions use the same wheel speed, load conditions, and test procedures (except Note 6) which are described in Section 5.

*B* The Canadian test version is typically used for evaluation of 75W lubricants.