



Test Monitoring Center

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L-33-1 Information Letter 20-4
Sequence Number 27
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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-33-1 Surveillance Panel
SUBJECT: Removal of Dana hardware from the Test Method

During an L-33-1 conference call the Surveillance Panel approved the removal of most mentions of the Dana hardware including Appendix A10 that covers the build method of the Dana axle. These removed sections are no longer needed since the hardware has not been approved for use since December 31, 2018

Sections 6.2.5, 8.1, 9.1, and 11.1.5 of the Test Method D7038 have been rewritten accordingly. These revisions are attached.

Anthony Lange
Chairman
L-33-1 Surveillance Panel

Frank Farber
Director
ASTM Test Monitoring Center

Attachment

cc: http://www.astmtmc.cmu.edu/ftp/docs/gear/l331/procedure_and_ils/il20-4.pdf

Distribution: Email

(Revises Test Method D 7038-20 as amended by Information Letter 20-03)

6.2.5 Housing Axle Tube Opening Seals—Since the differential is tested without axle shafts or axle tubes, seal the housing openings. Use a stainless steel plumbing test plug for a 2.9 in. to 3.1 in. pipe diameter. McMasterCarr p/n 2908K28^{12,9} with the outer washer and seal ring cut to 74 mm to 79 mm (2.9 in. to 3.1 in.) has been found acceptable. Install a pair of seals in the axle housing openings before installing carrier/case into the axle housing. ~~When using Dana Model 30 hardware rather than the AAM K2XX hardware see Fig. A5.2 for an example of construction dimensions for fabricating a pair of suitable seals.~~

8.1 Use 1.0 gal (3.7 L) of fluid for each test. The housing capacity is 91 oz (2.7 L); the remaining oil is used for coating the test parts during assembly. ~~When using Dana model 30 hardware rather than the AAM K2XX hardware the housing capacity is 40 oz (1.2 L).~~

Delete section 9.1:

~~9.1 When Dana Model 30 hardware is used instead, follow the preparation instructions in Annex A10.~~

Renumber section 9.1.1 accordingly.

11.1.5 Using a syringe, add 67.5 mL ~~6 0.6 mL (2.3 oz 6 0.02 oz)~~ of specified test water to the test unit through the full port valve within 5 min after starting the drive motor. ~~If using Dana Model 30 hardware rather than the AAM K2XX hardware add 1.00 oz 6 0.02 oz (29.6 mL 6 0.6 mL) instead.~~ Connect the pressure relief system.

(Remove Dana from Table 2 and revise footnote D to C)

TABLE 2 Test Precision

Variable, merits	Intermediate Precision		Reproducibility	
	S _{LP} ^A	i.p. ^B	S _R ^A	R ^B
Rust (Dana)^C	0.25	0.70	0.25	0.70
Rust (AAM) ^D	0.19	0.52	0.19	0.52

^A S = standard deviations.

^B This value is obtained by multiplying the standard deviation by 2.8.

~~^C These statistics are based on results obtained on TMC Reference Oil 151-3 from June 24, 2002 to Oct. 1, 2003.~~

^D These statistics are based on results obtained on TMC Reference Oil 155-1 from June 15, 2015 to May 2, 2017 using AAM hardware.

(Remove all of Annex A10)

~~A10. PREPARATION OF DANA MODEL 30 HARDWARE~~