

ASTM D7038 (L-33-1) MOISTURE CORROSION TEST
SURVEILLANCE PANEL MEETING

August 9, 2023

Teams Meeting

Meeting Minutes

I. Call to Order

II. Approval of Minutes

May 11, 2023 LRI

Motion: Caroline Mueller

Second: Jason Carter

Vote: Unanimous

III. Business

a. Membership review Voting Members

Name	Company
Banas, Rob	ExxonMobil
Beck, Dylan	TMC
Comfort, Allen	US Army CCDC-GVSC
Schaup, Nick	Lubrizol
Goyal, Arjun	BASF
Carter, Jason	Cummins-Meritor
Muransky, Troy	AAM
Sangpeal, Matt	Afton
Lange, Anthony	Intertek
Mueller, Caroline	SWRI
Zreik, Khaled	General Motors
Zyski, Amy	Dana

b. Adding Voting Member

- i. The motion was made to add Alexander Jackson as the Voting member for Chevron Oronite.

Motion: Anthony Lange

Second: Amy Zyski

Vote: Unanimous

c. Review of Participants list

- i. The committee reviewed the participants list and removed some people that no longer attend the committee meetings. These changes will be reflected in future participants lists and email correspondence.

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d. E-Type Thermocouples

- i. Background - For recording axle temperature the procedure allows the use of RTD (resistance temperature device), J-Type Thermocouples and K-Type Thermocouples (sections 6.2.6 and 6.2.7 of ASTM D7038).
- ii. The topic was brought up to allow the use of E-Type Thermocouples as well. In general, they seem to have a higher accuracy and are more stable over time. They also work with the temperature range we run at for the L33-1 test.
- iii. Motion – To Approve the use of E-Type thermocouples for use for the L33-1 test type (ASTM D7038). Effective 8/23/23

Motion: Caroline Mueller

Second: Nick Schaup

Vote: Unanimous

6.2.6 Temperature Control System, Motoring Phase— During the motoring phase, the bulk oil temperature is sensed by a resistance temperature device (RTD) or thermocouple (**E, J or K type**). The controller switches on a pair of 250 W lamps or cooling fan, or both, that are directed toward the differential as needed to control bulk oil temperature at 180 °F 6 1 °F (82 °C 6 0.6 °C). A household-type electric fan having 12.0 in. (310 mm) diameter blades has been shown to provide acceptable cooling capability. Fig. A5.3 shows an example of the location of the heat lamp pair and the cooling fan. Fig. A5.4 shows the location of the temperature sensor in the differential housing

6.2.7 Storage Box and Temperature Control System, Storage Phase—During the storage phase of the test, a double-walled aluminum or stainless steel box covers the differential housing assembly. An RTD or thermocouple (**E, J or K type**) in conjunction with the controller regulates heat input from four strip heaters giving a total output of 1700 Btu /h (500 W). A small electric motor turns a fabricated impeller at 1700 r /min 6100 r /min to provide air circulation within the box. Dayton part number 3M562 available from Grainger has been found suitable for this purpose.^{10,9} Control the bulk oil temperature at 125 °F 6 1 °F (52 °C 6 0.6 °C). Fig. A5.5 shows details of the impeller. Fig. A5.6 shows construction and electrical details of this box.

IV. Additional Discussion / Business?

- a. None

V. Summary of Action Items

- a. None

VI. Adjourn:

Motion: Jason Carter

Second: Nick Schaup

Vote: Unanimous

Thank you,
Anthony Lange
ASTM D-7038 Chairman

ASTM D 7038 L-33-1 SURVEILLANCE PANEL PARTICIPANTS LIST
August 9, 2023

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