

ASTM D7038 (L-33-1) MOISTURE CORROSION TEST
SURVEILLANCE PANEL MEETING
February 07, 2024
Teams Meeting

Meeting Minutes

I. Call to Order

II. Approval of Minutes

November 08, 2023 LRI
Motion: Arjun Goyal
Second: Allen Comfort
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
Carowick, Jessica	Cummins-Meritor
Muransky, Troy	AAM
Sangpeal, Matt	Afton
Lange, Anthony	Intertek
Mueller, Caroline	SWRI
Warden, Rebecca	Chevron Oronite
Zreik, Khaled	General Motors
Zyski, Amy	Dana

b. New Axle Batch Order

- i. The topic was raised back at the November 2023 D7038 Committee meeting to start a new order of axles for the L33-1 test as multiple labs currently have around a 1-year supply left. Intertek, Southwest Research Institute and Lubrizol will be participating in the batch purchase.
- ii. AAM stated that the T1XX axles that the committee currently uses are no longer in production. There is a possibility that their prototype

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shop could make the axles, but it would have a long lead time if that is an option.

- iii. Another option will be to switch to a different axle. The axle housing will have to be the same size or smaller in order to fit into the ovens that are currently used when testing. Axles would have to be “custom” in the sense that they will not have axle tubes, cannot have any MnP Coating, no Loctite, and no magnet in the axle cover.
 - iv. Anthony Lange will follow up with AAM to see what the options are before the May meeting.
- c. Fractions in ASTM D7038 and Rounding
- i. Currently ASTM E29 regarding rounding and significant digits does not mention fractions in their procedure. Section 11.2.2 of the procedure calls out a time frame of 1½ hours between the end of the motoring phase and the beginning of the oven storage phase. Since this is a fraction, it could cause issues on edge cases regarding rounding and significant digits.
 - ii. The Motion
 1. To update section 11.2.2 of ASTM D7038 changing the time limit between the end of the motoring phase and the beginning of the storage phase from 1½ hours to 90 min.
Motion: Anthony Lange
Second: Caroline Mueller
Vote: Unanimous
- d. Photos needed in the Report
- i. Currently ASTM D7038 does not state any requirements regarding photos in the report. Currently all labs are including a cover photo in their reports, but it is not documented or required anywhere.
 - ii. There was discussion about requiring more photos to prove or disprove the existence of rust spots on the rating areas. This would help if rust grew before it was presented to the LRI Review Committee. However, since rust is color and depth photos would not be a good indicator of rust. In the end the requirements of photos in the reports will not be added to the ASTM procedure.
 - iii. As part of this discussion, the storage of parts after rating was briefly discussed. Note 2 after section 11.4.5 mentions that “Mobil Arma 245 has been found to be effective” to prevent new rust after rating is

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complete. This wording will be revisited at the May committee meeting to see if this should be changed to a requirement or left as a recommendation.

IV. Additional Discussion / Business?

- a. Keeping Reference oils for 5 years or less
 - i. Background - The recommendation from a majority of Automotive Gear Oil suppliers is that gear oil has a shelf life of 5 years. In the past we have kept and used reference oils for a much longer period of time, some of the other gear oil test types are using reference oils that are over 20 years old and that has caused some concerns about degradation and reference severity.
 - ii. A Task force was set up to come up with common language to be used in ASTM gear oil specifications regarding keeping reference oils for no more than 5 years, allowing for 2-year extensions as needed. This task force will also come up with wording regarding how new reference oils and re-blends will be introduced, to maintain consistency moving forward.

V. Summary of Action Items

- a. Anthony Lange
 - i. To discuss with AAM about finding a replacement for the T1XX axle that is no longer in production.
 - ii. Add to the May Agenda to discuss photos required in the report and possibly updating Note 2 (after section 11.4.5) from a recommendation to a requirement.

VI. Adjourn:

Motion: Caroline Mueller
Second: Rebecca Warden
Vote: Unanimous

Thank you,
Anthony Lange
ASTM D-7038 Chairman

ASTM D 7038 L-33-1 SURVEILLANCE PANEL PARTICIPANTS LIST
February 7, 2024

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