

ASTM D7038 (L-33-1) MOISTURE CORROSION TEST
SURVEILLANCE PANEL MEETING
February 11, 2026
Meeting Minutes

I. Approval of Minutes

November 12, 2025 LRI

Motion: Arjun Goyal

Second: Payton Wright

Vote: Unanimous

II. Membership Review of Voting Members

Name	Company
Beck, Dylan	ASTM TMC
Carowick, Jessica	Cummins
Comfort, Allen	US Army CCDC-GVSC
Gibson, Trevor	Dana
Caridi, Margaret	BASF
Jetter, Steve	Exxon Mobil
McCollum, Clarence	Richful
Muransky, Troy	Dauch
Murray, Reagan	Intertek
Sangpeal, Matt	Afton
Schaup, Nick	Lubrizol
Schweitzer, Addison	Shell
Smith, Andrew	Infineum
Vander Wal, Camden	Daimler
Warden, Rebecca	Chevron Oronite
Wright, Payton	SwRI
Zreik, Khaled	General Motors

a. **Motion: Update BASF's voting member from Arjun Goyal to Margaret Caridi**

Motion: Michael Portell

Second: Nick Schaup

Vote: Unanimous

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III. Business

a. Continuous Severity Adjustments

- i. The current LRMS Calibration system uses deadband severity adjustments so if a test stand is within 0.30 standard deviations of reference oil target no severity adjustment is applied to the test stand. A lot of other TMC controlled test types are moving away from the LTMS control system the L33-1 test type uses to a new version of the system that includes continuous severity adjustments with no dead bands.
- ii. It was proposed that the L33-1 start moving to the new type of LTMS system in a staged approach by first introducing continuous severity adjustments. There were a lot of questions about how this would affect the test stands and how candidate tests are approved.
- iii. There are concerns regarding how this change would affect the pass fail percentages for candidate oils. It was also proposed to not look at incremental change but to move to the new LTMS system all at once. It was requested that an interim meeting be scheduled to discuss the new LTMS system and how it would work and affect candidate testing. This motion was put on hold until the May meeting.

b. New batch overheating during motoring phase

- i. All labs in the industry have seen the new 31XX gear batch overheating during the motoring phase. The Specification is $180 \pm 1^{\circ}\text{F}$ and the axles are occasionally overheating by $\sim 5^{\circ}\text{F}$.
- ii. There were multiple potential causes proposed by AAM but there is no confirmed cause at this time.
- iii. The specification allows leeway into what type of cooling fan is used, so the labs will attempt running using a higher CFM 12" diameter fan. One fan at a higher CFM is not always enough to maintain cool the axle to the required temperature.
- iv. A motion was made and approved to allow the use of 2 fans for cooling the axle during the motoring phase to help alleviate this issue.
- v. This issue is now closed unless a lab still has issues with overheating in the future.
- vi. **Motion: Update section 6.2.6 of ASTM 7038 to allow for the use of 2 cooling fans during the motoring phase**

Motion: Matt Sangpeal

Second: Nick Schaup

Vote: Unanimous

c. Hardware specific callouts

- i. Inside ASTM D7038 there is verbiage that calls out specific hardware configurations that are no longer used.
- ii. Figure A5.4 shows the location of the thermocouple probe and mentions the Dana model 30 which is no longer used for testing. This figure will

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have to be updated removing the Dana model 30 and include the new 31XX axle.

- iii. The labs will work together to discuss how to update figure A5.14 to be more accurate for the current rating templates and where the rating pins should be located.
 - iv. **Motion: Update section 9.22.4 of ASTM 7038 to remove the last sentence referring to a hook in the gasket that is not present in the 31XX axle batch.**
 - Motion: Anthony Lange**
 - Second: Micheal Portell**
 - Vote: Unanimous**
 - v. **Motion: Update section 9.2.2.1 of ASTM 7038 to remove the last sentence of the first paragraph mentioning “A late model GM, GMC, or Chevrolet service manual”.**
 - Motion: Nick Schaup**
 - Second: Matt Sangpeal**
 - Vote: Unanimous**
 - vi. **Motion: Update section A7.8 of ASTM 7038 read: “Rate the cover plate (area 4) with the rating template approved by ASTM TMC.”**
 - Motion: Nick Schaup**
 - Second: Payton Wright**
 - Vote: Unanimous**
- d. Critical Parts List update
- i. The new axle batch was approved so the critical parts list needs to be updated.
 - ii. **Motion: to update the critical parts list to include the new 31XX axle adding in the gasket and rating template part numbers and changing “AAM” to “Dauch”.**
 - Motion: Payton Wright**
 - Second: Nick Schaup**
 - Vote: Unanimous**
- e. Storage phase Downtime limits
- i. The topic of storage phase downtime limits has been discussed the last few LRI meetings because there was no wording in the procedure to account for shut downs during the storage phase. A motion was passed to update the wording in the ASTM D7038 procedure to account for this.
 - ii. **Motion: to update sections of ASTM D7038 to what is shown below.**
 - Add new section A6.2.3*
 - A6.2.3 Oven Storage Phase – downtime is not possible during this phase of the test due to rust continuing to expand regardless of other conditions.
 - Renumber existing A6.2.3 as A6.2.4*
 - A6.2.4 During motoring phase, do not calculate percent deviations down-time occurrences. During the oven storage

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phase, percent deviation should be calculated at all times even if the DAQ or oven lose power.

Revise Section A6.3.1 and table A6.1 of the test method

A6.3.1 Sump temperature and oven fan speed are critical parameters for this test method.

For the oven phase

A6.2.3.1 If any power loss occurs and the DAQ is not recording, use the first temperature reading at the restoration of power for any percent deviation calculations.

A6.2.3.2 If any power loss occurs and the DAQ is not recording, assume fan speed is zero for any percent deviation calculations.

Motion: Nick Schaup

Second: Arjun Goyal

Vote: Unanimous

IV. Additional Discussion / Business?

- a. None

V. Summary of Action Items

- a. For May LRI
 - i. An update to Figure A5.14 is needed.
 - ii. An update to Figure A5.4 is needed to remove the Dana model 30 and include the new 31XX axle.
 - iii. An update to figure A5.12 is needed for the new drill fixture.
- b. A virtual meeting will be scheduled to discuss the effects of moving the L33-1 method to the new LTMS system.

VI. Adjournment

Motion: Rebecca Warden

Second: Troy Muransky

Vote: Unanimous

Thank you,
Anthony Lange
ASTM D7038 Chairman

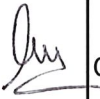
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