

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

November 13, 2024

Teams Meeting

Meeting Minutes

I. Call to Order

II. Approval of Minutes

August 7, 2024 LRI

Motion: Troy Muransky

Second: Arjun Goyal

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
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. Motion: To run qty:3 tests on TMC 126 and qty:2 tests on TMC 155-2 run on a referenced test stand, and the runs will not count against the reference period with a target completion date of 12/15/24.

Motion: Rebecca Warden

Second: Nick Schaup

Vote: Unanimous

- ii. The topic was raised back at the November 2023 D7038 Committee meeting to start a new order of axles for the L33-1 test. Intertek,

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Southwest Research Institute and Lubrizol will be participating in the batch purchase.

- iii. The discussion continued regarding this new gear batch. All 3 of the participating labs received 2 sample axles for this batch.
 - iv. According to the supplier, the materials used in manufacturing is fundamentally the same. The materials are sourced from different regions so minor recipe differences are possible.
 - v. Since the materials could have minor differences, the committee is concerned that it could affect performance. As such it was decided that some screener tests will be run. There were discussions about the best way to do it, and worry regarding overlapping targets for the 2 current reference fluids. The final decision was that 5 tests would be run 3 tests on TMC 126 and 2 tests on TMC 155-2. The full motion is listed above.
 - vi. Since axle has slight dimension differences, the committee will engage the Statistics group to assist with setting new weighting factors.
- c. Storage Phase Downtime Limits
- i. Currently there is no mention within the ASTM D7038 procedure of downtime limits for the storage phase of this test. The question was raised should there be limits and how would they be dealt with.
 - ii. There was discussion on what downtime meant and whether it means downtime for the circulation fan or something else. The current thoughts would be to report average fan speed and calculate the temperature deviation during anything the stand is down.
 - iii. Currently one of the labs has encoders on their fan speed. The other two labs will add encoders to their fan speed with a projected completion date of the February 2025 LRI meeting.
 - iv. The discussion for storage downtime limits will continue during the February 2025 LRI committee meeting.

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IV. Additional Discussion / Business?

a. Transition Phase Timing

- i. Sec 11.2.1 of ASTM D7038 states that the test unit must be moved to the storage box within 30 min of the end of the motoring phase. Currently there is no place to state the time in the report template.
- ii. There was a question brought up on whether the report template should be updated to include this information. Since the raw time values are listed in the report and the time can be calculated the decision was made not to update the report template at this time.

V. Summary of Action Items

- a. The 3 labs will run shakedown tests on sample axles for the proposed new batch with a targeted completion date of 12/15/24.
- b. Lubrizol and Intertek will add encoders for the storage box fan speed with a projected completion date of February LRI 2025.
- c. During the February LRI 2025 Committee meeting the discussion of downtime during the Storage phase would be discussed again.

VI. Adjourn:







Motion: Nick Schaup
Second: Jessica Carowick
Vote: Unanimous

Thank you,
Anthony Lange
ASTM D-7038 Chairman

ASTM D 7038 L-33-1 SURVEILLANCE PANEL PARTICIPANTS LIST
November 13, 2024

Initials	Name	Voting V/NV	Company Name Company Address	Phone / Fax / E-Mail
NA	Ariemma, Nick	NV	Lubrizol	Phone: Fax: E-mail: Nick.Ariemma@Lubrizol.com
PAB	Banas, Rob	V	ExxonMobil 535 Thomas Lane Waleska, GA 30183	Phone: 720-833-5920 Fax: E-mail: rob.a.banas@exxonmobil.com
DB	Beck, Dylan	V	TMC 203 Armstrong Dr. Freeport, PA 16229	Phone: 724-355-1854 Fax: E-mail: djb@astmtmc.org
DB	Bell, Don	NV	Afton Chemical Corp 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-6332 Fax: 804-788-6243 E-mail: don.bell@aftonchemical.com
AB	Bender, Tobias	NV	Fuchs Lubricants Harvey, IL	Phone: 708-737-1681 Fax: E-mail: Tobias.Bender@fuchs.com
MC	Cardi, Margaret	NV	BASF	Phone: 914-785-2336 Fax: E-mail: margaret.caridi@basf.com
JSL	Carowick, Jessica	V	Cummins 2135 W. Maple Road Troy, MI 48084	Phone: 248-872-3055 Fax: <i>Jessica Carowick @ Cummins.com</i> E-mail: Jessica.LaBond@meritor.com
HC	Catania, Hailey <i>Catania</i>	NV	Cummins 2135 W. Maple Road Troy, MI 48084	Phone: 248-435-1544 Fax: E-mail: Hailey.Catania@cummins.com
	Charron, Micheal	NV	SWRI	Phone: Fax: E-mail:
AC	Comfort, Allen	V	US Army DEVCOM-GVSC Mail Stop 110 6501 E. 11 Mile Road Warren, MI 48397-5000 AMSTA-TR-D / 210	Phone: 586-282-4225 Fax: 586-282-4244 E-mail: allen.s.comfort.civ@army.mil
	De La Fuente, Hector	NV	Oronite	Phone: Fax: E-mail: HDELAFUENTE@chevron.com
	<i>Remove</i> Drija, Kristijan	NV	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-391-6374 Fax: E-mail: krdr@lubrizol.com
AG	Goyal, Arjun	V	BASF 500 White Plains Road Tarrytown, NY 10951	Phone: 914-785-2083 Fax: E-mail: arjun.goyal@basf.com

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Initials	Name	Voting V/NV	Company Name Company Address	Phone / Fax / E-Mail
	Horvath, Dan	NV	Afton Chemical Corp 2000 Tower Center Southfield, MI 78075	Phone: 248-519-2551 Fax: E-mail: dan.horvath@aftonchemical.com
	Jackson, Alexander	V	Oronite	Phone: 510-367-7541 Fax: E-mail: alexmjack@chevron.com
	Jordan, Bradley	NV	Shell	Phone: Fax: E-mail: Brad.Jordan@shell.com
	Kanga, Percy	NV	Exxon Mobil Retired	Phone:908-335-3780 Fax: E-mail:
	Lange, Anthony Chairman	V	Intertek Automotive Research 5404 Bandera Road San Antonio, Texas 78238	Phone: Fax: E-mail: anthony.lange@intertek.com
	Lonsway, Chris	NV	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-4517 Fax: E-mail: chris.lonsway@lubrizol.com
	Mueller, Caroline	V	Southwest Research Institute 6220 Weiber Road San Antonio, Texas 78228	Phone: 843-471-6283 Fax: E-mail: caroline.louis@swri.org
	Morris, Jeanelle	NV	Navistar Inc. 2701 Navistar Drive Lisle, IL 60532	Phone: 331-332-1661 Fax: E-mail: jeanelle.morris@navistar.com
	Mosher, Donna	NV	BASF 500 White Plains Road Tarrytown, NY 10951	Phone: 269-217-1715 Fax: E-mail: donna.mosher@basf.com
	Moyer Sean	NV	TMC 203 Armstrong Dr. Freeport, PA 16229	Phone: Fax: E-mail: sam@astmtmc.org
	Muransky, Troy	V	AAM 1840 Halbrook detroit, MI 48212	Phone: 734-564-8406 Fax: E-mail: troy.muransky@aam.com
	Neal, Suzanne	NV	Daimler Trucks NA Detroit Diesel Corp	Phone: 313-408-2843 Fax: E-mail: suzanne.neal@daimler.com
	Portell, Micheal	NV	Intertek Automotive Research 5404 Bandera Road San Antonio, Texas 78238	Phone: Fax: E-mail: Micheal.Portell@intertek.com

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Initials	Name	Voting V/NV	Company Name Company Address	Phone / Fax / E-Mail
	Sangpeal, Matt	V	Afton Chemical Corp 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5364 Fax: E-mail: matt.sangpeal@aftonchemical.com
ES	Sattler, Eric	NV	US Army	Phone: 586-282-2272 Fax: E-mail: eric.r.sattler.civ@army.mil
NS	Schaup, Nick	V	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: Fax: E-mail: Nick.Schaup@Lubrizol.com
aps	Schweitzer, Addison	NV	Shell	Phone: 346-549-2481 Fax: E-mail: addison.schweitzer@shell.com
	Thrush, Steven	NV	US ARMY TARDEC	Phone: 586-282-5170 Fax: E-mail: steven.j.thrush.civ@main.mil
	Uy, Dairene	NV	Shell	Phone: 281-544-6781 Fax: E-mail: Dairene.UY@shell.com
WNV	Venhoff, Wes	NV V	Lubrizol TMC 203 ARMSTRONG DR. FREEPORT, PA 16229	Phone: 412-305-1034 Fax: E-mail: WNV@ASTMTMC.ORG
RW	Warden, Rebecca	V	Oronite	Phone: 830-865-6771 Fax: E-mail: Rebecca.Warden@chevron.com
	Yucebilgic, Fatih	NV	Fuchs Lubricants	Phone: 708-539-0252 Fax: E-mail: fatih.yucebilgic@fuchs.com
	Zarins, George	NV	AAM 1846 Holbrook Ave Detroit, MI 48212	Phone: 586-854-8810 Fax: E-mail: george.zarins@aam.com
	Zreik, Khaled	V	General Motors	Phone: 248-977-9214 Fax: E-mail: khaled.zreik@gm.com
AS	Zyski, Amy	V	Dana	Phone: 419-887-3432 Fax: E-mail: amy.zyski@dana.com
CW	Vander Wal Camden	NV	DDE/DTNA	Phone: Fax: E-mail: Camden.Vander.Wal@danielson.com

