

ASTM D-7038 (L-33-1) MOISTURE CORROSION TEST  
SURVEILANCE PANEL MEETING

For LRI #165  
March 9, 2012  
Automation Alley  
Troy, Michigan

**AGENDA**

- I. Call to Order
- II. Approval of minutes N/A
- III. Business
  - a. Review of Next Generation Hardware.
- IV. New Business?
- V. Summary of Action Items
- VI. Summary of Motions and Votes
- VII. Adjourn Motion

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**Minutes**

I. Call to Order

II. Approval of minutes N/A

III. Business

a. Review of Next Generation Hardware.

Contacted Both Dana and AAM for willingness to offer a replacement axle.

Dana responded offering both the model # 30 and model #44

The chair asked for quotes for both as the industry may wish to use the production model 44 if costs become a factor using the outdated model 30 axle. There was no response after the request for quote.

AAM responded offering several possibilities none that could be exact fit.

The committee discussed several of the AAM products with the K2XX second a small banjo type of axle that would require modification to each installation.

The chair will by May 18, 2012 get a vehicle part number of a production axle 8.6" light duty non limited slip axle that could be modified, reviewed for fit and function. If labs agree the functionality is acceptable the axles will be screened using reference oils and equal percentage of water based on oil fill for severity checks.

The chair will request AAM to quote a version of the 8.6" K2XX axle without tubes for the labs to purchase and begin screening tests for verification of similarity to the current axle model.

The chair will convene a conference call on June 13, 2012 to review the status of progress of the labs and severity.

Motion: D. Smith

2<sup>nd</sup>: B. Koehler

Vote: 7,0,0

Unanimous

The TMC has completed Beta testing the test time form change. The committee voted to introduce the form change on June 15, 2012.

Motion: S Parke

Second: B Koehler

Vote: 7,0,0

Unanimous

IV. New Business?

V. Summary of Action Items

Chair to approach AAM for use of K2XX axle in the L-33

Chair to get part number of appropriate axle from AAM no limited slip

Chair to get quote and availability on the K2XX axle

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**VI. Summary of Motions and Votes**

Conference call June 13, 2012 to discuss K2XX axle to discuss possible axle issues and lab review of parts.

**VII. Adjourn Motion**

ASTM D 7038 L-33-1 SURVEILLANCE PANEL PARTICIPANTS LIST

May 9, 2012

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May 9, 2012

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May 9, 2012

Attending	O'brian, Cheryl	NV		Fax: E-mail: cheryl.obrian@gm.com
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Attending	Parke, Scott	V	TMC 6555 Penn Avenue Pittsburgh, PA 15206	Phone: 412-365-1036 Fax: E-mail: sdp@astmtmc.cmu.edu
Attending	Recinos, William	NV	Afton Chemical Corp 500 Spring Street Richmond, Virginia 23218	Phone: 804-788- Fax: 804-788- E-mail: william.recinos@aftonchemical.com
Attending	Smith, Dale (Chairman)	V	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Mobil: 412-855-6854 Phone: 210-706-1570 Fax: 210-684-6074 E-mail: dale.smith@intertek.com
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May 9, 2012

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**From:** Dale Smith Intertek [Dale.Smith@intertek.com]  
**Sent:** Thursday, May 17, 2012 5:41 PM  
**To:** Allison Athey; Angela Trader Intertek; Bill Kearney; bkoehler@swri.org; Bridget Dwoenick; bruce.mcglone@arvinmeritor.com; cved@ford.com; Comfort, Allen; dhartej@aam.com; don.bell@aftonchemical.com; jlg@lubrizol.com; Hamilton, Larry; harold.chambers@gmail.com; Jack Zakarian (E-mail); Jeff Clark; joe.guzikowski@dana.com; Khaled Zreik; Mills, Robert V; percy.r.kanga@exxonmobil.com; Recinos, William; samuel.higuchi@aftonchemical.com; Scott Parke; wtsullivan@comcast.net; thelmaemarougy@eaton.com; thomas.bryson@volvo.com; Wendy L Grubbs; wes.venhoff@lubrizol.com  
**Subject:** L-33 minutes from 5/9/12  
**Attachments:** L-33 5-9-12.pdf

Greetings all,

I have attached a file containing the L-33 minutes. Comments and corrections are welcome. I believe that I captured the major issues for the L-33. AAM has already replied with part numbers and vehicle for the proposed axle and availability. This axle can be produced without tubes same as we currently use. I initially requested a 4.10 ratio but it is not ready for production at this time. They did offer the 4.10 in the future if we feel that our other three options are not acceptable. They can offer now a 3.23, 3.42, and 3.73. I believe that the 3.73 would be acceptable for our use even in the future as the gears are mostly a mixing device for this test. The axle is a GMT900 series 8.6" ring diameter open differential. Part number is 20937830. I checked and it is a good number. It fits a 2WD or 4WD Silverado 1500 4.3L V6 Chevy. I don't plan to order mine until next week. I do have a 2008 version here and was able to measure the housing. It is about 17" wide by 18" long without tubes. It will fit in the ovens. In our lab we will need to modify our mounting stands with new saddles and to align with the motor. The front flange will require a larger ujoint also. My hope is there is a combo ujoint that will fit the current shaft and new flange. I have not checked on this mod yet. Based on all I know currently this axle has a chance to be the next L-33 test part.

Thank you,  
Dale B. Smith

Valued Quality. Delivered.

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