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### **Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS**

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June 6th , 2014

Reply to:  
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ASTM D02.B0.03 L-37 Surveillance Panel  
Members and Guests:

Attached for your review and comment are the unconfirmed minutes of the:

- **May 7th, 2014 S.P. Meeting, Automation Alley, Troy, MI**

Please direct any corrections or comments to my attention.

Sincerely,

Chris Prengaman, Chairman  
L-37 Surveillance Panel

**Report of Meeting**  
**L-37 D6121 Surveillance Panel Meeting**  
**Automation Alley, Troy, Mi**  
***May 7th, 2014 Meeting***

**Attendees:**

Voting Members in **BOLD**

Gottwald, Thomas – Afton Chemical

Recinos, Will – Afton Chemical

Koglin, Cory – Afton Chemical

Kearney, Bill – Afton Chemical

Keisler, Marc – Afton Chemical

**Chalkley, Jay – Afton Chemical**

Bell, Don – Afton Chemical

**Dharte, John – American Axle Manufacturing**

**Parke, Scott – ASTM TMC**

Banas, Rob – ExxonMobil

Kanga, Percy - ExxonMobil

Trader, Angela – Intertek Automotive Research

Barrera, Tony – Intertek Automotive Research

**Prengaman, Chris – Lubrizol**

Gropp, Jerry – Lubrizol

Umerley, Matt – Lubrizol

Muransky, Troy – Meritor

**McGlone, Bruce - Meritor**

Koehler, Brian – Southwest Research Institute

**Warden, Rebecca – Southwest Research Institute**

**Comfort, Allen – US Army RDECOM/TARDEC**

Dwornick, Bridget – US Army RDECOM/TARDEC

The meeting was called to order at 1330 EST.

**1.0 Agenda Review**

The agenda was reviewed

**2.0 Meeting Minutes Approval**

**Motion:** Motion to approve prior minutes that have been posted for review on the TMC website.

2/12/2014 – Automation Alley

Approved by voice vote unanimously. B. McGlone 1<sup>st</sup>, T. Gottwald 2<sup>nd</sup>

**3.0 Meeting Notes**

C. Prengaman shared an update from Dana on the current build process. 100 axles remain at the time of the meeting to be rebuilt. Labs are requested to verify the remaining axles owed.

C. Prengaman passed 3 pinions around the room – these pinions had what appeared to be surface cracking visible on the tooth face. The raters will be requested to review these examples and assist with developing a definition of tooth cracking / surface cracks at the July Workshop. The panel will review at the August meeting.

Lab built axles were discussed – there exists interest to continue to pursue this as a temporary reprieve till the replacement test is operational. Additional teleconferences will be scheduled to move this along.

**Motion:** Jay Chalkley was nominated as the voting member on the group replacing Thomas Gottwald.  
Approved unanimously by voice vote.

### **5.0 Adjournment**

Motion to adjourn .

Respectfully Submitted

Chris Prengaman

L-37

5/7/14

1:30-2:30

# Agenda

- Meeting Minutes Approval
  - 2/12/14
- Hardware Update
- Cracking Comments
- Build Comments

# Hardware Update – 4/29/14

	AXLES OWED	
	LUBRITED	NON-LUBRITED
SWRI	0	12
AFTON	10	19
INTERTEK	0	0
LZ	9	50
TOTAL	19	81
	IN PROCESS	
	LUBRITED	NON-LUBRITED
AFTON	10	10

# Tooth Cracking

- Broken Teeth are Defined
- Surface Cracks – not quite covered
- Raters to discuss at July Workshop
- Example Parts

- 3.1.3 *broken gear tooth, n*—a gear tooth where a portion of the tooth face is missing and the missing material includes some part of the top land, toe, heel, or coast side of the tooth.
- 3.1.5 *chipping, n—on ring and pinion gears*, a condition caused in the manufacturing process in which a small irregular cavity is present only at the face/crown edge interface. The edge-chipping phenomenon occurs when sufficient fatigue cycles accumulate after tooth surface wear relieves the compressive residual stress on the tooth profile side of the profile-to-topland interface. Chipping within 1 mm of the face/crown edge interface is to be called chipping, not pitting/spalling. **ASTM Distress Rating Manual No. 21**
- 12.7 Consider as non-interpretable any reference or nonreference oil test that has one or more broken pinion or ring gear teeth. Note any broken teeth in the comment section of the test report.
- A9.3.7 *Chipping*—Note chipping observations in the comment section of the test report.
- A9.3.8 *Broken Tooth*—Note any broken teeth in the comment section of the test report.



# Next Steps

- Raters to discuss at July Workshop
- Create Definition
- Determine Validity

# Lab Built Axles

- Gleason Axles delayed till 3Q
- Approval Matrix
- Sufficient Dana hardware at labs?
- Further work needs completed to quantify build variability and test result.

# New Business

- ?

ASTM L-37 Surveillance Panel Membership/Mailing List




Meeting Date: May 7th, 2014

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\* Initial to indicate attendance at subject meeting

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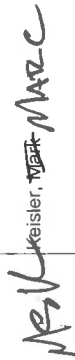
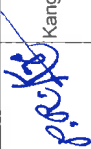



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