

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

For LRI #172

February 11, 2014

PRI Headquarters

Warrendale, PA

## Agenda

I. Call to Order

II. Approval of Minutes

November 6, 2013 Automation Alley

Motion:

Second:

Vote:

III. Business

a. New K2XX Hardware

Part #40099185 rev C third member Tag PN P40128429

b. Review Raters reviewed parts at calibration workshop.

i. The group agreed to use the existing definitions for rating and requested that all ratings be documented.

ii. Raters chose pin locations for new template.

iii. Raters also found template pins loose when installed in cover. They requested template modification so pins and cover fit tight and all movement eliminated when the template is installed on the cover.

iv. Raters will rate the trunion bore to the bottom of the machined surface.

v. Raters asked that magnetic plug be removed for prep and at EOT to assure no metal is smeared on cover when wiped.

c. Raters found cover plate holes to bolts loose compared to old unit.

i. Tolerance has been a part of the test cover as all bolts need a tolerance to be installed.

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Clearance chart:

	Current Dana	AAM	AAM
	Axle	New Axle	New Axle
	All Holes	Small Hole	Large Holes
Bolt size	5/16	8mm	8mm
Bolt diameter	0.308	0.315	0.315
Cover to bolt	0.035	0.045	0.072
Gasket / Template	<u>0.048</u>	<u>0.020</u>	<u>0.020</u>
Stack Clearance Total	0.083	0.065	0.092

d. Fill volume and water amount.

1. The fill volume Measured at Intertek is 2700ml to bottom of fill plug.
  - a. Recommend 2500ml to be slightly lower than bottom of plug.
2. If 2700ml oil fill water fill will be 67.5ml
  - a. If 2500ml oil fill water fill would be 62.5ml axle.

ii. We have a facilitator Lyle Bowman waiting to work on the document as soon as we are ready. He will wait for the test matrix completes to provide the ASTM way to the procedural changes.

1. First question: Will the new document be converted to SI units as primary?

IV. Additional Discussion / Business?

a. Blast media name change.

b. Request committee to elect a new chair!

i. Nomination for Chairperson: Angela Trader, Intertek Automotive Research

V. Summary of Action Items

VI. Adjourn

Thank you,  
 Dale B. Smith  
 ASTM D-7038 Chairman

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## Minutes

### I. Call to Order

### II. Approval of Minutes

November 6, 2013 Automation Alley

Motion: Thomas Gottwald

Second: Matt Umerley

Vote: Unanimous

### III. Business

#### a. New K2XX Hardware

Part #40099185 rev C third member Tag PN P40128429

#### b. Review Raters reviewed parts at calibration workshop.

i. The group agreed to use the existing definitions for rating and requested that all ratings be documented.

ii. Raters chose pin locations for new template.

iii. Raters also found template pins loose when installed in cover. They requested template modification so pins and cover fit tight and all movement eliminated when the template is installed on the cover.

iv. Raters will rate the trunion bore to the bottom of the machined surface.

v. Raters asked that magnetic plug be removed for prep and at EOT to assure no metal is smeared on cover when wiped.

#### c. Raters found cover plate holes to bolts loose compared to old unit.

i. Tolerance has been a part of the test cover as all bolts need a tolerance to be installed.

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Stack Clearance Total	0.083	0.065	0.092

d. Fill volume and water amount.

1. The fill volume Measured at Intertek is 2700ml to bottom of fill plug.
2. If 2700ml oil fill water fill will be 67.5ml

The group will attempt to use 1 gallon reference oil for initial matrix testing.

**Committee unanimously agrees**

- ii. We have a facilitator Lyle Bowman waiting to work on the document as soon as we are ready. He will wait for the test matrix completes to provide the ASTM way to the procedural changes.

1. First question: Will the new document be converted to SI units as primary?

The committee agrees to use SI units as primary where applicable. The primary will be SI with English secondary. Where no direct conversion is applicable English units will be used.

**Committee unanimously agrees**

IV. Additional Discussion / Business?

- a. Blast media name change. The committee agreed to adopt the new name manufacturer of blast media. Based on the supplier changing its name the group agreed to adopt the new name as an editorial change to the procedure with the previous name as applicable until the industry exhausts the current supply.
- b. SWRI Request the voting member be changed from Brian Koehler to Rebecca Warden
- c. AAM requests that John Dharte be made a voting member

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d. Request committee to elect a new chair!

i. Nomination for Chairperson: Angela Trader, Intertek Automotive Research

The committee nominated a new chairperson Angela Trader

Motion: Thomas Gottwald

Second: Matt Umerley

Vote: Unanimous

V. Summary of Action Items

VI. Adjourn

Thank you,  
Dale B. Smith  
ASTM D-7038 Chairman

I would like to thank the participant's labs and OEMs for the many years of assistance and quality work. I will miss the friendship.

Sincerely,  
Dale

ASTM D 7038 L-33-1 SURVEILLANCE PANEL PARTICIPANTS LIST  
February 11, 2014

Initials	Name	Voting V/NV	Company Name Company Address	Phone / Fax / E-Mail
	Athey, Alison	NV	Mack Volvo 13302 Pennsylvania Ave. Hagerstown, MD 21740	Phone: 301-573-5684 Fax: E-mail: allison.athey@volvo.com
	Barrera, Tony	NV	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: Fax: E-mail: tony.barrera@intertek.com
Attending	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
	Bryson, Tom	V	Mack Trucks 13302 Pennsylvania Avenue Hagerstown, Maryland 21740	Phone: 301-790-5454 Fax: 301-790-6744 E-mail: tomas.bryson@volvo.com
	Boschert, Tom	NV	Afton Chemical Corp 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5202 Fax: E-mail: tom.bosher@aftonchemical.com
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Attending	Clark, Jeff	NV	TMC 6555 Penn Avenue Pittsburgh, PA 15206	Phone: 412-365-1032 Fax: E-mail: jac@astmtmc.cmu.edu

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Attending	Chalkley, Jay	NV	Afton Chemical Corp 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5082 Fax: E-mail:jarrod.chalkley@aftonchemical.com
	Dwornick, Bridget (Brosnan)	NV	US Army TACOM Mail Stop 110 6501 E. 11 Mile Road Warren, MI 48397-5000 RDTA-DP/210	Phone: 586-282-4221 Fax: 586-574-4224 E-mail:bridget.dwornick@us.army.mil
Attending	Dharte, John	V	AAM 2965 Technology Drive Rochester Hill, Michigan 48309	Phone: 248-299-6478 Fax: 248-299-6581 E-mail: Dhartej@aam.com
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Attending	Gropp, Jerry	NV	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-1223 Fax: 440-347-1555 E-mail: jlg@lubrizol.com
	Hamilton, Larry	NV	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-2326 Fax: E-mail: larry.hamilton@lubrizol.com

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	Hobson, Kevin	NV	Afton Chemical Corp 500 Spring Street Richmond, Virginia 23218	Phone: 804-788- Fax: 804-788- E-mail:kevin.hobson@aftonchemical.com
	Kanga, Percy	V	ExxonMobil Research Engineering Co. 600 Billingsport Road Paulsboro, NJ 08066	Phone: 856-224-2094 Fax: 856-224-3613 E-mail: percy.r.kanga@exxonmobil.com
	Kearney, Bill	NV	Afton Chemical Corp 2000 Tower Center Southfield, MI 48075	Phone:248-302-8531 Fax: E-mail:
	Keisler, Marc	NV	Afton Chemical Corp 500 Spring Street Richmond, Virginia 23219	Phone: Fax: E-mail:marc.keisler@aftonchemical.com
Attending	Koehler, Brian	NV	Southwest Research Institute P.O. Drawer 28510 San Antonio, Texas 78228	Phone: 210-522-3588 Fax: 210-684-7523 E-mail: bkoehler@swri.edu
	Marougy, Thelma	V	Eaton Corporation 26201 Northwestern Highway Southfield, MI 48037	Phone: 248-354-6985 Fax: 248-354-2739 E-mail: Thelmaemarougy@eaton.com



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	Mosher, Donna	NV	Eaton Corporation 26201 Northwestern Highway Southfield, MI 48037	Phone: Fax: E-mail:
	Muransky, Troy	NV	Meritor 2135 West Maple Troy, Michigan 48084	Phone: Fax: E-mail: troy.muransky@meritor.com
Attending	Pregaman, Chris	NV	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: Fax: E-mail: Christopher.Pregaman@lubrizol.com
Attending	Parke, Scott	V	TMC 6555 Penn Avenue Pittsburgh, PA 15206	Phone: 412-365-1036 Fax: E-mail: sdp@astmtmc.cmu.edu
	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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Attending	Trader, Angela	NV	Intertek Automotive Research 5404 Bandera Road San Antonio, Texas 78238	Phone: 210-706-1533 Fax: 210-684-6074 E-mail: angela.trader@intertek.com
Attending	Umerley, Matt	V	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-4589 Fax: E-mail: Mathew.Umerly@lubrizol.com
	Ved, Chintan	V	Ford Transmission and Driveline 35500 Plymouth Rd L, MI, 48150	Phone: 313-805-9495 Fax: 734-523-3960 E-mail: cved@ford.com
Attending	Warden, Rebecca	V	Southwest Research Institute P.O. Drawer 28510 San Antonio, Texas 78228	Phone: 210-522-6266 Fax: 210-684-7523 E-mail: Rebecca.Warden@swri.edu
	Zakarian, Jack	V	Chevron	Phone: Fax: E-mail: jaza@chevron.com
	Zreik, Khaled	V	General Motors	Phone: 248-977-9214 Fax: E-mail: khaled.zreik@gm.com
				Phone: Fax: E-mail:





FROM LOCATION:  
 S.O.T. ABRASIVES & EQUIPMENT  
 3816 BINZ-ENGLEMAN B105  
 SAN ANTONIO, TX 78219

# S.O.T.

Abrasives & Equipment

REMIT TO:  
 S.O.T. ABRASIVES & EQUIPMENT  
 10750 METRIC DR.  
 DALLAS, TX 75243-8504

"THE START OF A GOOD FINISH"

\*\*\* ACKNOWLEDGEMENT \*\*\*

\* Dallas 214-340-0222 \* San Antonio 210-270-7551 \* Tulsa 918-382-7788

Bill To: SOUTHWEST RESEARCH INSTITUTE  
 ATTN:ACCOUNTS PAYABLE  
 P.O. DRAWER 28510  
 SAN ANTONIO TX 78228-0510

Ship To: SOUTHWEST RESEARCH INSTITUTE  
 6220 CULEBRA ROAD  
 SAN ANTONIO TX 78238

INVOICE		ORDER		CUSTOMER		TERMS	S/P	SHIP VIA	
NUMBER	DATE	NUMBER	DATE	NUMBER	PO NUMBER			BS	CUST
		252757	02/04/14	SOURES	DON R HART	CREDIT CARD			
LINE NUMBER	ITEM NUMBER	U/M		QUANTITY			PRICE		
ITEM DESCRIPTION		ORDERED	B/O	SHIPPED	UNIT	EXTENDED			

\*\*\* ORDER ACKNOWLEDGEMENT \*\*

10	80XBRBTR							
	80X BROWN A/O	LB	300		300		1.080	324.00
	CERTIFIED TO A-A-59316							
	50# BAG							

<> INCLUDE CERTS <>

\*\*\* CREDIT CARD ORDER \*\*\*  
 USE CARD ON FILE FOR:  
 DON R HART.  
 THANK YOU, ROGER CONTRERAS

Order Subtotal	324.00
Tax #: 74-1070544	
Order Total	324.00

WE ACCEPT VISA, MASTERCARD & AMERICAN EXPRESS

*Thank you*

# Treibacher Schleifmittel North America, Inc.

## Product Certification

Date: 11/11/2013

Shipping Date: 11/11/2013

Customer Order Number: 71438

Treibacher Order Number: 13c0003524-1

Customer: S.O.T. Abrasives + Equipment

Product	Grit	Lot Number	Sieve Analysis						Pan	BSG
			U.S. Sieves	35	50	60	70	100	- 100	
			Limits	0	35max	35min	60min	record	5Max	
Alodur LB	60	3113-010		0	15	61	83	2	0	1.82
			U.S. Sieves	35	50	60	70	100	- 100	
			Limits	0	35max	35min	60min	record	5Max	
Alodur LB	60	3113-011		0	13	59	84	3	0	1.82
			U.S. Sieves	40	60	70	80	120	- 120	
			Limits	0	25	35	65	rec	5	
Alodur LB	80	2893-007		0	12	68	88	0	0	1.72
			U.S. Sieves	40	60	70	80	120	- 120	
			Limits	0	25	35	65	rec	5	
Alodur LB	80	2893-010		0	3	51	94	3	0	1.82
			U.S. Sieves	60	100	120	140	230	- 230	
			Limits	0	25max	30min	55min	record	5Max	
Alodur LB	100	2393-018		0	17	55	82	1	0	1.80

# Treibacher Schleifmittel North America, Inc.

## Product Certification

Date: 11/11/2013  
 Shipping Date: 11/11/2013  
 Customer Order Number: 71438  
 Treibacher Order Number: 13c0003524-1  
 Customer: S.O.T. Abrasives + Equipment

Product	Grit	Lot Number	Sieve Analysis					Pan	BSG	
			U.S. Sieves	60	100	120	140	230	- 230	
			Limits	0	25max	30min	55min	record	5Max	
Alodur LB	100	3113-001		0	23	52	75	1	1	1.75
			U.S. Sieves	80	170	230	270	270	- 270	
			Limits	0	20max	30min	60min			
Alodur LB	180	2973-010		0	1	40	69	0	30	1.65
			U.S. Sieves	80	170	230	270	270	- 270	
			Limits	0	20max	30min	60min			
Alodur LB	180	2973-011		0	1	47	76	0	23	1.65

Comments:	Al2O3	95.15	Na2O	0.025
	SiO2	0.86	MgO	0.22
	TiO2	2.86	Cr2O3	0.01
	Fe2O3	0.1	CaO	0.4

Meets ANSI B74.12 Table 3 specification for sizing and A-A-59316 and GE D50TF5CLD S8, for grit sizes listed on spec.

*Tom Martinez*  
 Quality Operations Manager

## NAME CHANGE



- Dear business partners,
- The Boards of **Treibacher Schleifmittel Group** and **UCM Group** have decided to unify the name of all companies and to change its name to **Imerys Fused Minerals**.
- 
- This step to a common brand will increase the visibility of IMERYS and will also improve the co-operation and communication with our customers and suppliers. The changes by our various operating companies will depend on local regulations but will be finished by the end of 2013. The only change will be the company name. All contracts, agreements, tax numbers, bank details etc will remain unchanged. As soon as the changes are confirmed we will contact you to provide detailed information for your various departments.
- 
- IMERYS is the world leader in mineral-based specialty solutions for industry, Imerys transforms a unique range of minerals to deliver essential functions (heat resistance, mechanical strength, conductivity, coverage, barrier effect, etc.) that are essential to its customers' products and manufacturing processes.
- 
- In case of further questions do not hesitate to contact us.
- Best regards
- The Managing Boards