### Report of Meeting L-37-1 Surveillance Panel Conference Call

#### November 9th, 2022

**Attendees:** 

SwRI - **Mueller,** Kostan, Charron

Lubrizol - Venhoff, **Slocum**, Schaup, Drjla, Ariemma

Afton - Sangpeal, Bell, Horvath, Decker

Intertek - Lange,
TMC - Beck
ExxonMobil - Banas

BASF - Goyal, Caridi

Dana - **Zyski** 

Cummins-Meritor - LaBond, Carter
Army - Sattler, Comfort
AAM - Muransky, Zarins

Shell - Uy Navistar - Morris Daimler - Neal

Fuchs - Bender, Yucebilgic

Voting Members in **BOLD** 

#### 1.0 Membership Review

Motion #2 → R. Slocum 1<sup>st</sup> /2<sup>nd</sup> A. Goyal to approve the change of Nick Schaup to take the place of Robert Slocum as the L37-1 Surveillance Panel chair and voting member. Motion passed unanimously, 11-0-0 (Yes-No-Abstain).

#### 2.0 Meeting minutes Approval

August 10th, 2022, ASTM Meeting #206

Motion #1  $\rightarrow$  R. Slocum 1<sup>st</sup> /2<sup>nd</sup> M. Sangpeal to approve the meeting minutes from the August 10th, 2022, ASTM Meeting. Motion passed unanimously, 11-0-0 (Yes-No-Abstain).

#### 3.0 L-37-1 LTMS Discussion

- Borderline Gear rating done at LZ (See Appended PowerPoint)
- Will send gear set to Afton 1<sup>st</sup> to start a round robin for all raters to rate for comparison
- Need more Gleason gears in the rater calibration parts

#### 4.0 MnP Coated batch approval process

- Afton, SwRI complete
- Intertek Soon

#### 5.0 Gleason Match # issue

- Email vote completed to engrave ring gear with pinion # if mismatched
- Need to keep trying to contact Gleason to discuss some concerns on final processing/ Pinion tip relief.
- Need to find Second Source for future hardware

#### **6.0 Reference Oil Targets – Canadian**

• Dylan had spreadsheet to determine which data points to include/exclude

#### **7.0 Old Business**

#### **8.0 New Business**

#### 9.0 Adjourn

Motion #3  $\rightarrow$  A. Goyal 1<sup>st</sup> /2<sup>nd</sup> J. Carter to adjourn. Motion passed unanimously, 11-0-0 (Yes-No-Abstain).

Respectfully submitted,

Robert Slocum

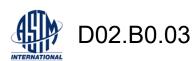
L-37-1 Surveillance Panel Chairman

# L-37-1 Surveillance Panel Meeting

11/09/2022 16:00 pm – 17:00 pm Robert Slocum



- Call to Order/Agenda review
- Meeting Minute Approvals
- August 10th, 2022, ASTM Meeting
- L-37-1 LTMS Discussion
  - Borderline Gear rating done at LZ
- MnP Coated batch approval process
  - Labs progress??
- Gleason Match # issue.
  - Any other discussion or thoughts??
- Reference Oil Targets Canadian
- Membership Review
- Old Business
  - ?
- New business
- Adjournment



## **Meeting Minutes Approval**

• August 10<sup>th</sup>, 2022, ASTM Meeting



## **Test Monitoring Center**

http://astmtmc.cmu.edu

http://astmtmc.org

## LRI 207 Surveillance Panel Meetings L-37-1 Rating Activity

November 9, 2022

#### Overview

- During the August panel meeting, there was discussion about Lab B potentially be consistently milder than other labs for RIPP.
- As an investigation a L-37-1 reference test that failed for RIPP at Lab A was sent to lab B to be rated





www.astmtmc.org 412-365-1000





### **Rating Comparison**

		Pinion Rating (Run#05-0329)		
Rater ID	Lab	WEAR	RIDG	RIPP
43	LZ	8	10	9
44	LZ	8	10	8
* New Rater in Training	LZ	8	10	10
38	SR	7	9	6

Lab B did rate the parts milder than the original rating at Lab A





www.astmtmc.org 412-365-1000





### Next Steps

- This activity showed that Lab B was more mild than Lab A for at least one part
- Possible next steps:
  - Take this part to the next gear rating workshop
  - Have other Lab A raters look at this part
  - Repeat this activity with more L-37-1 parts





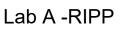
www.astmtmc.org

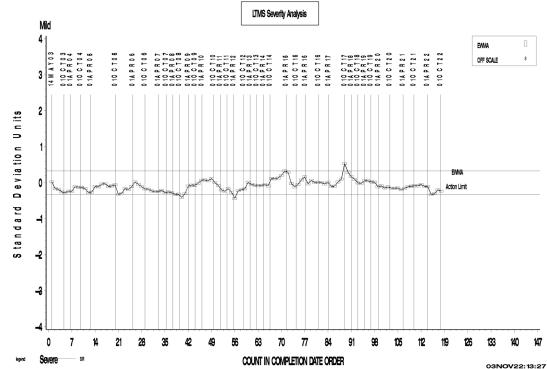














www.astmtmc.org 412-365-1000

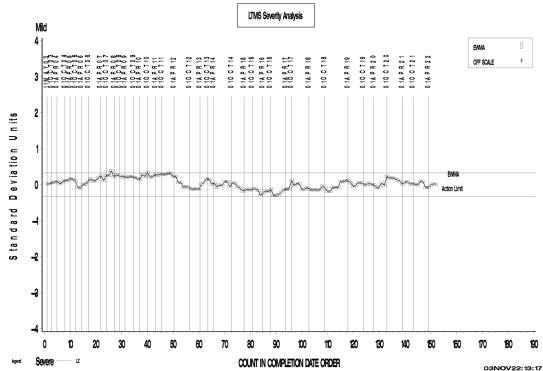
Test Monitoring Center











**Test Monitoring Center** 

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org 412-365-1000

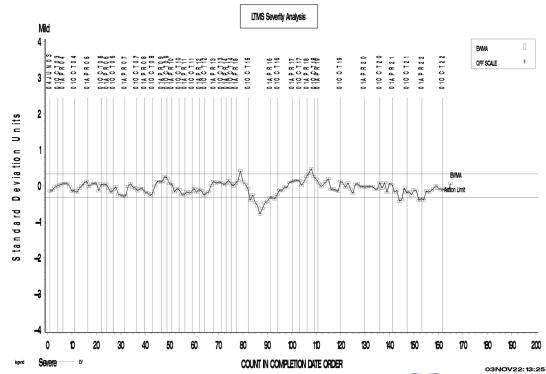
Test Monitoring Center











**Test Monitoring Center** 

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org 412-365-1000

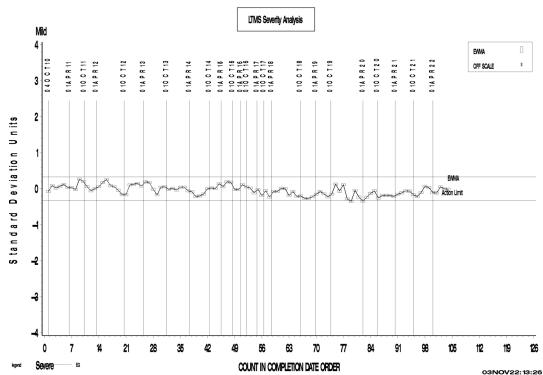
Test Monitoring Center











#### **Test Monitoring Center**

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org 412-365-1000

Test Monitoring Center

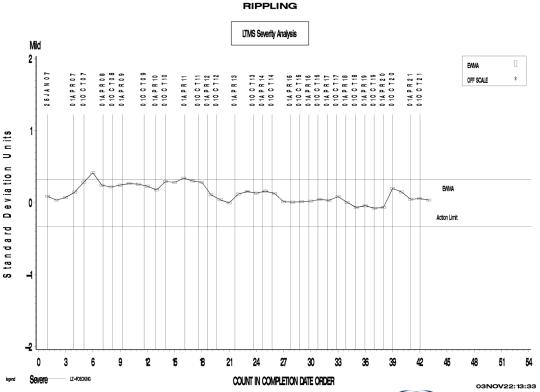






Lab B – RIPP

Rater 30 (recently retired)





Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

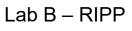
www.astmtmc.org 412-365-1000

Test Monitoring Center

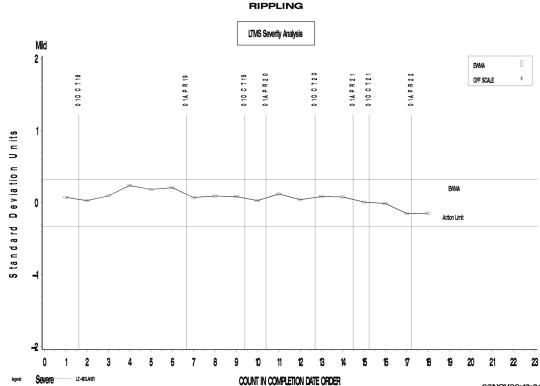








Rater 44



03NOV22:13:34



Test Monitoring Center

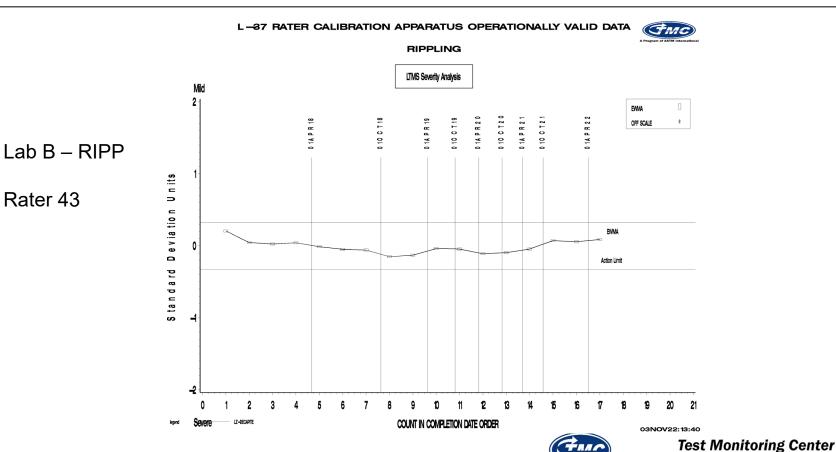
203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org 412-365-1000

Test Monitoring Center



Rater 43



Test Monitoring Center

http://astmtmc.cmu.edu

203 Armstrong Drive, Freeport, PA 16229, USA



www.astmtmc.org

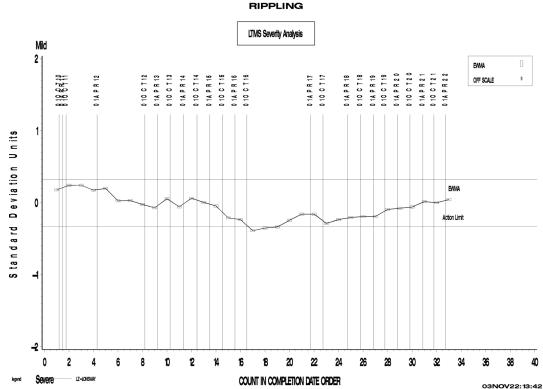
412-365-1000





Lab B – RIPP

Rater 36





**Test Monitoring Center** 

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org 412-365-1000

Test Monitoring Center

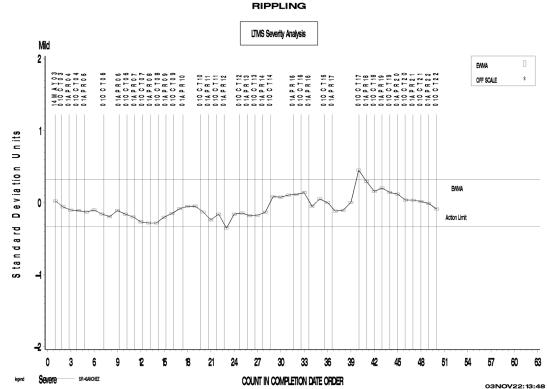






Lab A – RIPP

Rater 10



Gue



www.astmtmc.org 412-365-1000

Test Monitoring Center

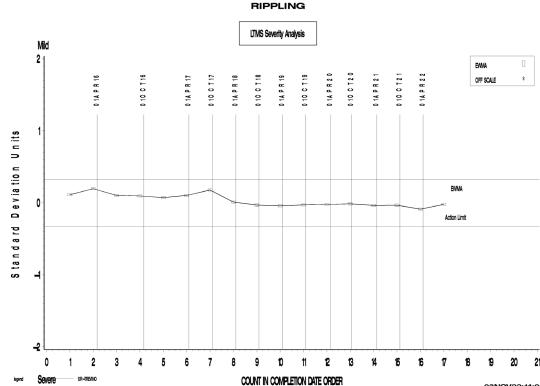






Lab A - RIPP

Rater 38



03NOV22:14:03



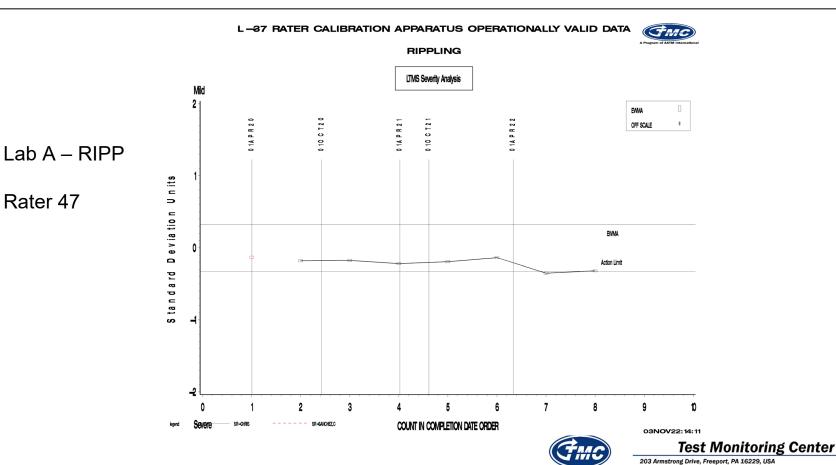
203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org 412-365-1000

Test Monitoring Center



Rater 47

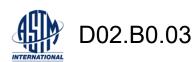


Test Monitoring Center

http://astmtmc.cmu.edu



www.astmtmc.org 412-365-1000



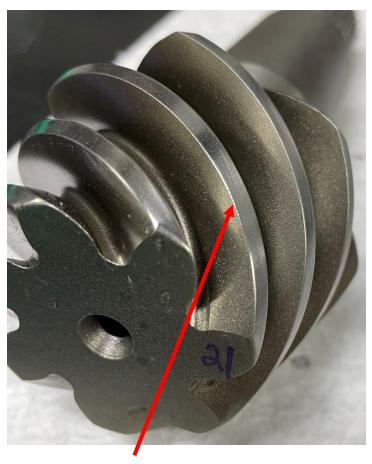
## MnP Coated batch approval process

- Each lab will run Gleason 2021 MnP Coated 3 times using the 3 reference oils
- Afton
- Swri
- Intertek ~next week

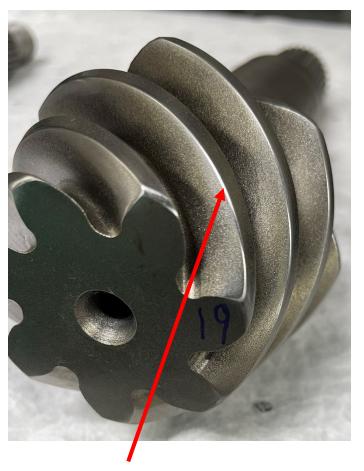


### Gleason Match # issue etc.....

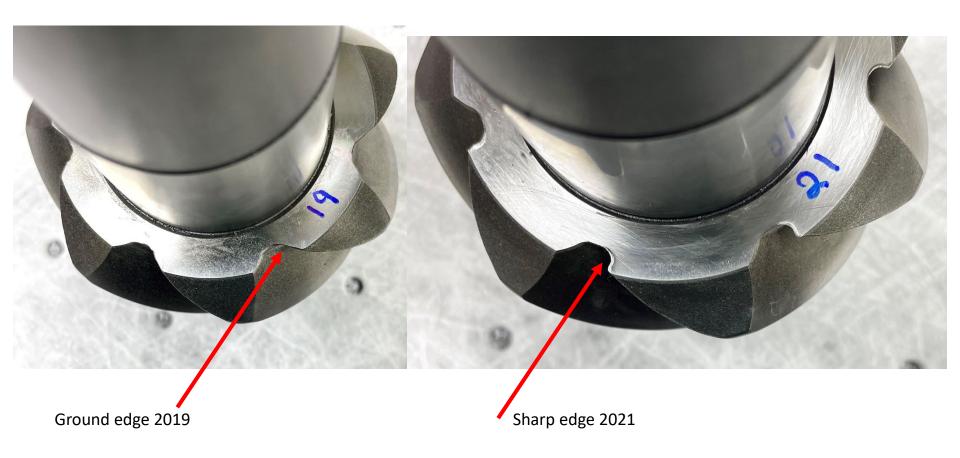
- Email vote to engrave ring...
- Pinion tip relief??
- Mike Dennis include email
- Need to second source



This 2021 edge seems to be a little sharper than the 2019's



2019



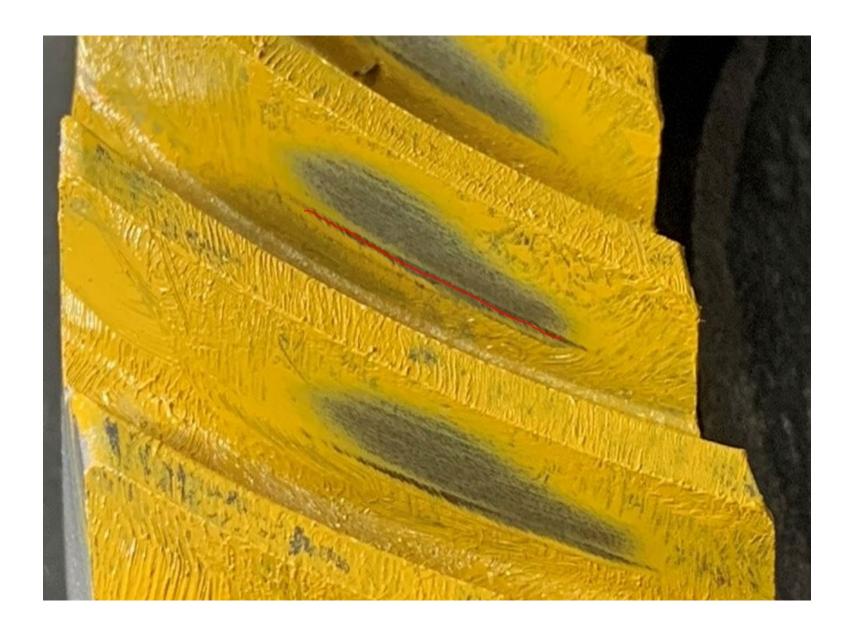


2019 seems to have more of a chamfer on this edge

2021 has thinner chamfer on this edge

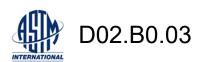








### Reference Oil Targets - Canadian



## Membership Review

Rob Banas ExxonMobil

Allen Comfort US Army

Troy Muransky AAM

Matt Sangpeal Afton

Arjun Goyal BASF

Amy Zyski Dana

Dylan Beck TMC

Jason Carter Cummins - Meritor

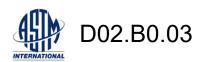
Anthony Lange Intertek

Robert Slocum Lubrizol

Caroline Mueller SwRI

Khaled Zreik GM

**Total Voting Members = 12** 



### **Old Business**

• ?

New Business
Do we need both MnP Coated
and uncoated
Canadian coated most severe

## Adjourn