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### Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

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### ASTM Gear Rating Task Force Meeting & Gear Rating Workshop January 20-21, 2015

The ASTM Gear Rating Task Force meeting was attended by: Scott Parke, Marty Rose, Pat Adams, West Stocks, Brian Foeking, Bill Potocar, Tony Barrera, Nancy Aguierre, Audrey Kern, Jesse Rodriguez, Frank Lopez and Art Sanchez.

#### January 20, 2015

Art Sanchez welcomed everyone to Southwest Research Institute®.

Art Sanchez called the meeting to order. Topics discussed in the Rater Task Force meeting were as follows:

- .Different size Washer nuts being used by Labs for the L-60-1 test rigs.
- .The use of the L-60-1 rating template for deposit percent area breakdown.

New washer nuts were made and distributed to all labs and are currently being used in the L-60-1 test rigs.

Raters attending the workshop were reminded to use the L-60-1 percent area breakdown templates only to measure the percent area of deposit of the rated surface, and to use the L-60-1 procedure to determine the total rated area of the gear face.

A question was asked of the current and past workshop rating data comparing the use of the L-60-1 rating jig and not using the jig.

Scott showed data plots and explained data comparing the two methods, were scattered with no defined comparison.

The next gear rating workshop will be hosted by Afton Chemical July 21-23, 2015.

Meeting adjourned.

After the meeting, parts were laid out for the calibration exercise and ratings continued until lunch time.

Review of rating data began after lunch. Data was reviewed and discussed and was found to be acceptable.

Calibration parts were replaced with practical application parts and ratings continued until 5:00.

January 21, 2015

Practical application ratings continued and were completed by 10:00 a.m. then data review began.

Ratings were reviewed and discussed, any data different from the group was reviewed and discussed in great detail.

After lunch, Scott laid out several sets of L-42 rings and pinions for rating, these gear sets will be used for the RCMS system. The gear sets were only rated by RCMS calibrated raters.

After ratings were completed, data was reviewed and discussed. During the data review, several raters were concerned with two L-42 gear sets that are currently used in the RCMS system. These two gear sets have a great deal of scoring with a scoring pattern that is difficult to rate. Also, the ratings for these two gear sets are considerably different from rater to rater. This makes it very difficult to set accurate targets for RCMS ratings.

After much discussion, raters asked Scott of the possibility of removing gear sets #45 and #53 from the RCMS system. Raters feel the two gear sets are not representative of the L-42 test, and are not suitable for the RCMS system. Scott will present this request to the Surveillance Panel for approval.

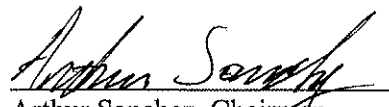
Southwest Research Institute® was thanked for hosting a successful workshop, and for their hospitality.

The rating areas, parts and light were dismantled and packed.

Light meter readings for each light on each rating table.

	<u>01/20/2015</u>	<u>01/21/2015</u>
<u>L-33</u>	400	380
	405	404
	393	382
<u>L-42</u>	445	394
	408	415
	399	421
<u>L-60</u>	377	350
	380	380
<u>L-37</u>	320	330
	293	293

Respectfully submitted,

  
Arthur Sanchez, Chairman  
ASTM Gear Rating Task Force

AS/cm

ASTM Gear Rating Calibration Workshop  
Attendance Roster  
San Antonio ,TX January 20, 2015

Member	Visitor	Name	Company	Telephone/Fax/Email
		Brian Jacoby PAT ADAMS	Lubrizol AFTON	440-347-2130 8047885260
		Marty Rose	Afton	804 788 5374
		Wes' Stocks	Afton	804 788 - 5317
		Tony BARRERA	Intertek A.R.	210-523 4653
		Donna Quinone	Intertek AR	210 - 647-9428
		Frank Lopez Bill Galt	SWRI Lubrizol	210 - 522-3445 440- 347- 4568
		Audrey Kern	Intertek AR	210-363-3834
		Jesus Rodriguez	SWRI	
		Arthur Sanchez	SWRI	210-522-5432

ASTM Gear Rating Calibration Workshop  
Attendance Roster  
San Antonio, TX January 21, 2015

Member	Visitor	Name	Company	Telephone/Fax/Email
✓		DANIEL P. AGUIRRE	Intertek	210-647-9428
✓		PAT ADAMS	AFTON	817-655-2601
✓		MARTY ROSE	AFTON	817-788-5374
✓		Wes Stocks	Afton	804 788-5317
		Audrey Kern	Intertek AR	210-343-3834
✓		Frank Lepp	SWRI	210-522-3445
✓		Jesus Rodriguez	SWRI	
✓		Tony Bakker	Intertek AR	210-513-4653
✓		Brian Foecking	LUBRIZOL	440 347 2130
✓		Bill Cotter	Lubrizol	440-347-4568
✓		Arthur Seng	SWRI	210-522-5452

# ASTM GEAR RATING TASKFORCE PANEL MEMBERSHIP

<u>MEMBERS</u>	<u>COMPANY</u>
Aguirre, Nancy.....	Intertek
Adams, Pat .....	Afton
Barrera, Tony.....	Intertek
Foecking, Brian.....	Lubrizol
Lopez, Frank.....	SwRI
Lonsway, Chris.....	Lubrizol
Rodriguez, Jesse.....	SwRI
Rose, Marty.....	Afton
Sanchez, Art, Ldr. ....	SwRI
Stocks, Wes.....	Afton
Trevino, Bobby.....	Intertek

<u>MAILING DISTRIBUTION</u>	<u>COMPANY</u>
Bonewald, John.....	SwRI
Gottwald, Thomas.....	Afton
Gropp, Jerry .....	Lubrizol
Huron, John.....	Oronite
Koehler, Brian.....	SwRI
Kozak, Brian.....	Afton
Lind, Don .....	TMC
McGlone, Bruce.....	Meritor
Parke, Scott.....	TMC
Potokar, Bill.....	Lubrizol
Schenkenberger, Chris.....	Lubrizol
Smith, Dale.....	Intertek PARC
Rebecca Warden.....	SwRI
Zakarian, Jack .....	Chevron