

MEETING MINUTES: ROBO SURVEILLANCE PANEL

Meeting: ROBO SP Meeting

Date: February 22, 2023

Location: WebEx (virtual)

Minutes by: Madeleine Dellinger – SP Chair

Meeting Outcome and Actions:

1. Added Shane Abbott with BG Products
2. Quanchang Li replacing Denny Gaal for Exxon Mobil
3. Next meeting tentatively scheduled for May 23, 2024

Membership and Attendance:

ASTM TMC	*John Loop, Sean Moyer
Afton	Shelia Thompson, Jeff Yang,
BG Products	*Madeleine Dellinger, *Shane Abbott
Chevron Oronite	*Robert Stockwell
Evonik Oil Additives	*Justin Mills, Gabe Walkup, *Jessica Marcanello
ExxonMobil	Dennis Gaal, *Quanchang Li
Infineum	Andy Richie
Intertek	*Joe Franklin, Matt Schlaff, *Rachel Stone
Lubrizol	*Aimee Shinhearl, *Jerimiah Westbrook, *Vince Donndelinger
SwRI	Becky Grinfield, Joe De La Cruz, *Mike Birke, *Yong-Li McFarland
Valvoline	Amol Savant, *Amy Ross, *Bruce Tonkel
Vanderbilt Chemicals	Al Filho, Christine Katrenya
Ace Glass	Dave Lawrence, *Tom Petrocella
Koehler Instruments	Raj Shah, Vincent Colantuini
Tannas/Savant	Greg Miller
General Interest	*Alan Flamberg

* Denotes attendance

Summary:

- Meeting convened at 10:03 CST on February 22, 2024
- No modifications to the agenda
- ASTM Antitrust and Recording Policy reviewed.
- Membership review and update
 - Added Shane Abbott with BG Products, Inc
 - Removed Denny Gaal with Exxon Mobil
 - Added Quanchang Li with Exxon Mobil
- Meeting minutes from November 9, 2023 SP meeting were accepted (Motion made by Joe Franklin, Seconded by Jeremiah Westbrook)
- Actions and outcome from the November 9th meeting were reviewed.
 - There were no outstanding actions from the previous meeting.
- ROBO Status
 - Past Semester (April 1- September 30) finished slightly mild and precision close to target.
 - Current Semester (October 1 – Present) is running with no bias and precision close to target.
 - CUSUM plot is trending flat indicating that there is little to no bias.
- LTMS Updates
 - None
- Additional business.
 - Aimee Shinheartl mentioned that when they tried to order an Edwards Vacuum Pump at the beginning of the year, VWR said it wouldn't be available until July. She said the rep mentioned that they might have a replacement. She said she would send Maddie the alternative to add to the Vacuum Pump Option Document that was sent to the panel last year.
- Next meeting tentatively scheduled for May 23rd at 10 AM CST / 11 AM EST. The date may be postponed or moved up if necessary.
- The meeting was adjourned at 10:13 AM CST.

-End report-

ASTM D7528: Bench Oxidation of Engine Oils by ROBO Apparatus

ROBO Surveillance Panel Meeting

February 22, 2024

Madeleine Dellinger

Agenda

- Welcome, ASTM statement
- Review of surveillance panel membership
- Minutes and actions from prior meeting (November 9, 2023)
- Current status of ROBO including statistics
- Additional Business
- Set next meeting

ASTM Antitrust and Recording Policy

ASTM International is a not-for-profit organization and developer of voluntary consensus standards. ASTM's leadership in international standards development is driven by the contributions of its members: more than 30,000 technical experts and business professionals representing 135 countries.

The purpose of antitrust laws is to preserve economic competition in the marketplace by prohibiting, among other things, unreasonable restraints of trade. In ASTM activities, it is important to recognize that participants often represent competitive interests. Antitrust laws require that all competition be open and unrestricted.

It is ASTM's policy, and the policy of each of its committees and subcommittees, to conduct all business and activity in full compliance with international, federal and state antitrust and competition laws. The ASTM Board of Directors has adopted an antitrust policy which is found in Section 19 of ASTM Regulations Governing Technical Committees. All members need to be aware of and compliant with this policy. The Regulations are accessible on the ASTM website (<http://www.astm.org/COMMIT/Regs.pdf>).

Electronic recording of ASTM meetings is prohibited.

Membership

ASTM TMC	John Loop , Sean Moyer
Afton	Shelia Thompson, Jeff Yang
BG Products	Maddie Dellinger , Shane Abbott
Chevron Oronite	Robert Stockwell
Evonik Oil Additives	Justin Mills , Gabe Walkup, Jessica Marcanello
ExxonMobil	Dennis Gaal , Quanchang Li
Infineum	Andy Richie
Intertek	Joe Franklin , Matt Schlaff, Rachel Stone
Lubrizol	Aimee Shinhearl , Jerimiah Westbrook , Vince Donndelinger
SwRI	Becky Grinfield, Joe De La Cruz, Mike Birke , Yong-Li McFarland
Valvoline	Amol Sawant, Amy Ross , Bruce Tonkel
Vanderbilt Chemicals	Al Filho, Christine Katrenya
Ace Glass	Dave Lawrence, Tom Petrocella
Koehler Instruments	Raj Shah, Vincent Colantuini
Tannas/Savant	Greg Miller
General Interest	Alan Flamberg
Guests	

Summary of changes:

1. Added Quanchang Li with Exxon Mobil
2. Removed Dennis Gaal from Exxon Mobil
3. Added Shane Abbott with BG Products, Inc



Motion to accept November 9, 2023 meeting minutes

MEETING MINUTES: ROBO SURVEILLANCE PANEL

Meeting: ROBO SP Meeting
Date: November 9, 2023
Location: WebEx (Virtual)
Minutes by: Madeleine Dellinger – SP Chair

Meeting Outcome and Actions:

1. Next meeting tentatively scheduled for February 22nd, 2024

Membership and Attendance:

ASTM TMC	*John Loop, Sean Moyer
Afton	Shelia Thompson, Jeff Yang,
BG Products	*Madeleine Dellinger
Chevron Cronite	*Robert Stockwell
Evonik Oil Additives	*Justin Mills, *Gabe Walkup, *Jessica Marcanello
ExxonMobil	Dennis Gaal
Infinium	Andy Richie
Intertek	*Joe Franklin, Matt Schiaff, *Rachel Stone
Lubrizol	Aimee Shinhear, *Jeremiah Westbrook, *Vince Donndelinger
SwRI	*Becky Grinfeld, Joe De La Cruz, Mike Birke, *Yong-Li McFarland
Valvoline	Amol Savant, Amy Ross, **Bruce Tonkel
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Ace Glass	Dave Lawrence, Tom Petrocella
Koehler Instruments	Raj Shah, *Vincent Colantuoni
Tannias/Savant	Greg Miller
General Interest	*Alan Flamberg

* Denotes attendance

MEETING MINUTES: ROBO SURVEILLANCE PANEL

Summary:

- Meeting convened at 10:03 CST on November 9, 2023
- No modifications to the agenda
- ASTM Antitrust and Recording Policy reviewed.
- Membership review and update
 - No Changes
- Meeting minutes from August 31, 2023, SP meeting were accepted (Motion made by Justin Mills, Seconded by Joe Franklin)
- Actions and outcome from the August 31st meeting were reviewed.
 - There were no outstanding actions from the previous meeting.
- ROBO Status
 - Past Semester (April 1- September 30) finished slightly mild and precision close to target.
 - Current Semester (October 1 – Present) is running mild with precision close to target.
 - CUSUM plot is trending flat indicating that there is little to no bias.
 - Maddie mentioned that the link to the statistics isn't working on her end. John Loop said he'd check it out.
- LIMS Updates
 - None
- Edwards Vacuum Pump Availability
 - The current lead time for RV8 pumps is 11-16 weeks. Normal lead time is 6-8 weeks.
 - Maddie shared her contacts at Edwards Vacuum:
 - Aleksandr Gordopolov (alexander.gordopolov@edwardsvacuum.com) – General Contact
 - Amber Dettmann (amber.dettmann@edwardsvacuum.com) – Contact for rebuilds/repairs.
- ASTM in New Orleans
 - The ASTM D02 presentation overview was given regarding the method, parts availability, reference oils, test availability, and severity and precision. All test aspects are in good standing with vacuum pumps continued to be monitored.
 - Justin Mills pointed out a mistake in the precision and severity numbers. Maddie stated she would fix it before sending out the minutes and agenda
 - The pass/fail rates of both the dilute and liquid methods were reviewed. The dilute method continues to have a higher pass rate than the liquid method.
 - The fail rate of operationally valid tests last semester was 11.6% (up from 7.4% last semester).
 - The precision and severity of both the dilute method and liquid method were reviewed. The dilute method had precision on target for the past semester but ran more severe than the liquid method. The liquid method ran with almost no bias with precision remaining around 0.2.
 - Justin Mills stated that the liquid method is going to have more variability than the dilute method. He said that a lot of labs sit at their own "spots," and it shouldn't be read into too much. He said that the 2 labs that are running the dilute method are very experienced and have performed many runs.
- No other additional business.
- Next meeting tentatively scheduled for February 22nd, 2023 at 10 AM CST. The date may be postponed or moved up if necessary.
- The meeting was adjourned at 10:20 AM CST.

-End report-

Current status of ROBO

ROBO Industry Statistics

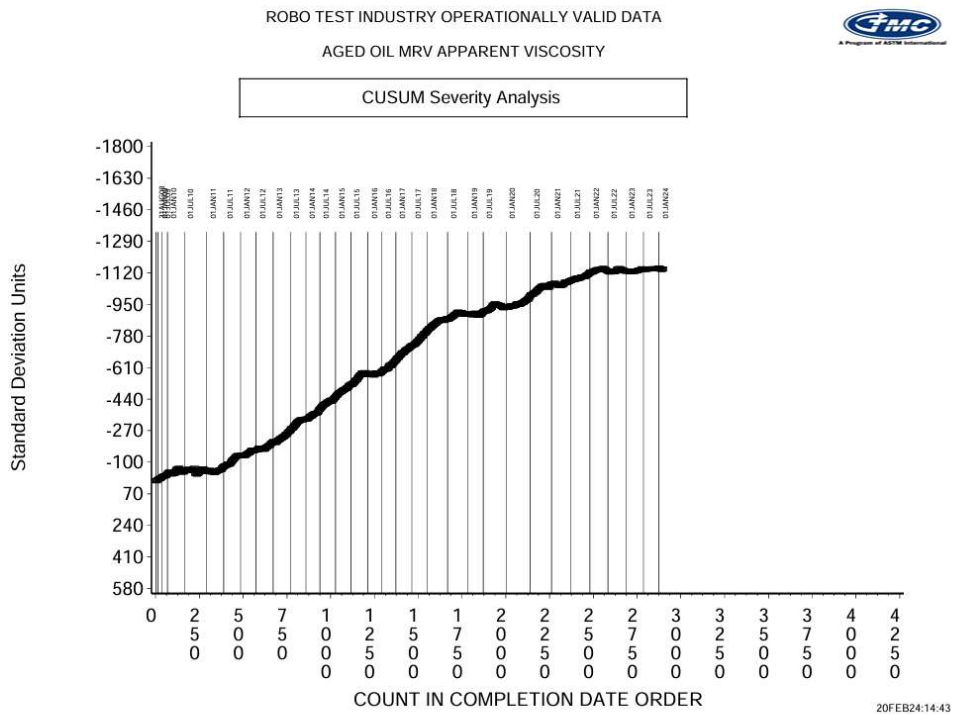
Period	N-size	Degrees of Freedom	Pooled s	Mean Δ/s
Current Targets	80	77	0.1551	-----
4/1/19 through 9/30/19	95	91	0.2492	-0.32
10/1/19 through 3/31/20	158	153	0.2723	-0.10
4/1/20 through 9/30/20	119	113	0.2264	-0.76
10/1/20 through 3/31/21	113	108	0.3188	-0.11
4/1/21 through 9/30/21	116	110	0.1992	-0.37
10/1/21 through 3/31/22	106	102	0.2103	-0.35
4/1/22 through 9/30/22	105	101	0.1868	-0.06
10/1/22 through 3/31/23	94	91	0.2000	0.11
4/1/2023 through 9/30/23	103	100	0.1990	-0.11
10/1/23 through 2/21/24	63	60	0.1749	0.00



- Precision continues to stay around 0.2 for the last 5 semesters. NO bias currently.

Source <https://www.astmtmc.org/ftp/refdata/bench/robo/data/statistics.txt> (February 21, 2024)

CUSUM severity analysis



Graph Trend	Meaning
Flat	No bias
Upward	Mild Bias
Downward	Severe Bias

Source: <https://www.astmtmc.org/ftp/refdata/bench/robo/plots/mrv%20INDUSTRY.pdf> (February 21, 2024)

LTMS updates

- No updates to report.

<https://www.astmtmc.org/ftp/docs/ltms/ltms.pdf>

Any Additional Topics?

Next Meeting

Next meeting???

- Suggest ROBO SP meeting in April
- Thursday May 23th 10 AM CST / 11 AM EST