

ASTM Engine Oil Gelation Test (EOGT) WK86363 Update

EOFT and EOWTT Surveillance Panel Meeting
July 8, 2025

Yong-Li McFarland, Chair



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EOFT and EOWTT Surveillance Panel Membership

22 members

Sarah Fitzgerald, Afton Chemical
Robert Stockwell, Chevron Oronite
Quanchang Li, ExxonMobil
Michael Deegan, Ford
Melissa Chu, Infineum
Angela Willis, Infineum
Joe Franklin, Intertek
Karina Gil, Intertek
Yuliza Rocha, Intertek
Michael Johnscher, ISP
Michael Kunselman, KJA Group

Litchi Xie, Lubrizol Additive (Zhuhai) Co., Ltd.
Victoria Fein, Lubrizol
Jason Bowden, OH Technologies Inc
Clarence McCollum, Richful (Xinxiang Richful)
Greg Miiller, Savant Group
Sean Alston, SGS North America
Becky Grinfield, SwRI
Yong-Li McFarland*, SwRI
John Loop, TMC
Jared Cavaliere, Valvoline
Amy Ross, Valvoline

*Chair



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New EOGT WK86363, ILS# 1854

- Ford request for a new Engine Oil Gelation Test (EOGT): request to add a new test filterability test to better screen oils for field issues
- Status:
 - Method: 1 draft (Afton method V9.6) uploaded on ASTM Collaboration Area
 - Oils: 11 potential reference oils offered; 17 oils received at TMC
 - Screening Tests and ILS: ILS tests ongoing
 - Timing: ILS tests to be run by April, and test available in August 2025

Agenda:

- 1. Pilot II and ILS status
- 2. Data analysis and data dictionary
- 3. Timing
- 4. Review EOGT method V9.7



ILS Updates 7-7-25

- Afton: submitted ILS
 - SwRI: completed ILS
 - Savant: TMC sent ILS samples.
 - Intertek: completed ILS
 - Valvoline: completed ILS
 - Infineum: completed ILS
 - Lubrizol: completed ILS
 - Richful: completed ILS
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- Infineum has additional feedback on method-received
 - When issue info letter? Once data from stats group is received



Data analysis, data dictionary

- TMC sent initial ILS data to stats group June 13
- Updates: Stats group working through data, decoding issues, and labs with error runs; 2 labs used funnel diameter outside method, concerns with getting the correct funnel diameter from supplier, focus on oil precision vs high/mid/low precision.
- Is a precision funnel that can be included? Please let Yongli know of possible equipment and supplier
- Need for additional cleaning language in method?
- All data (include first ILS runs) to be sent to stats group
- Funnel diameter discussion for next meeting

- Data dictionary and referencing process: criteria data to be reported to TMC, report results to be determined – Jared to work with John on this



Timeline – updated July 8, 2025

Draft Timeline	Date															
	5-6 2023	7-8 2023	9-10 2023	11-12 2023	1-2 2024	3-4 2024	5-6 2024	7-8 2024	9-10 2024	11-12 2024	1-2 2025	3-4 2025	5-6 2025	Jul-Aug 2025	Sept –Oct 2025	
Develop test procedure and ILS report form	█															
Collect and prepare donated oil samples (17 oils)		█														
Screening samples shipped to labs (6 labs)		█														
Screening labs run 4 tests			█													
Test development (Screening, Proposal tests, Root cause)			█													
Pilot #1									█							
Pilot #2 and #3									█							
ILS samples shipped and labs run tests												█				
Data analysis for ILS, generate Research Report (RR) & Precision													█	█		
Ballot test procedure and RR															█	
Test available for industry use															█	



EOGT Procedure updates and video

- Jared to review method with group
 - Please send any feedback to Jared by June 30.
 - John sent TMC wording revisions

- ASTM EOGT video – no comments
 - Section 9
 - Section 10:
 - Section 11: “air fluid interface”, order of add water and check pH in method/wording, does order of clockwise or counterclockwise
 - Section 13



Action Items and Next Meeting

- Savant to complete ILS runs – check on timing
- Jared and John to work on data dictionary
- All: review latest procedure and give comments to Jared
- All: review ASTM EOGT videos and give comments to Yong-Li
- Labs: review previous work on funnel diameter to share at next meeting, and check on if data submitted accurately
- All: let Yongli know of any precise funnel products and suppliers

- Next Meeting: ~~July 23 at 9 AM CDT for 1 hr~~ July 24 at 9 AM CDT for 1 hr



Thank you for your support!

Participants		
Method Development (11)	Oil Donations (9)	Testing Labs (10)
Afton	Afton	Afton
ExxonMobil	Ford	Infineum
Ford	Infineum	Intertek
Infineum	Lubrizol	ISP
Intertek	OH Technologies (donate filters only)	Lubrizol
ISP	Oronite	Richful
Lubrizol	Subaru	Savant
Oronite	TMC (collection, shipping only)	SwRI
Savant	Toyota	TMC (monitoring system only)
SwRI		Valvoline
TMC		

