

ASTM D6795 Engine Oil Filterability Test (EOFT) and ASTM D6794 Engine Oil Water Tolerance Test (EOWTT)

Surveillance Panel Meeting

May 8, 2023

Yong-Li McFarland, Chair



ADVANCED SCIENCE. APPLIED TECHNOLOGY.

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Agenda

- Attendance
- Topic: Modified and New EOFT Gelation Test
- Other New Business



Surveillance Panel Membership and Scope

16 members

Beth Schwab, Afton Chemical

Robert Stockwell, Chevron Oronite

Dennis Gaal, Exxonmobil

Ron Shah, Infineum

Joe Franklin, Intertek

Karina Gil, Intertek

Udo Boecker, ISP

Michael Johnscher, ISP

Litchi Xie, Lubrizol Additive (Zhuhai) Co., Ltd.

Victoria Fein, Lubrizol

Jason Bowden, OH Technologies Inc

Greg Miiller, Savant Group

Jared Cavaliere, SwRI

Becky Grinfield, SwRI

Yong-Li McFarland*, SwRI

John Loop, TMC

*Chair

Scope and Objective

- It is the responsibility of this panel to provide surveillance over Test Methods D6794 and D6795 bench tests used in the ILSAC and API passenger car oil categories. The surveillance panel will review data semi-annually supporting the precision for each bench test and when necessary, conduct workshops to bring the bench tests within accepted limits. The surveillance panel will function with the support of the ASTM Test Monitoring Center (TMC) in an effort to monitor the bench tests and maintain appropriate and adequate supplies of reference oils for the monitoring process. The panel will maintain a liaison with the “expert groups” in ASTM, which may help in the maintenance and improvement of the bench test methods used in support of the current ILSAC and API categories. The surveillance panel will make recommendations for appropriate action through Subcommittee D02.B, Section 7.



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Topic I: Modified and new EOFT Gelation Test

- Ford request for modified EOFT Gelation Test: request to add a modified or new test filterability test to better screen oils for field issues

Volunteers		
Method Development	Oil Donations	Testing Labs
ISP-Philipp, ExxonMobil-Denny, SwRI-Jared, Intertek-Joe, Savant-Maggie, Afton-Beth, Oronite- Robert S, Ford – Mike D/Dean W	Afton-Beth, Infineum-Ron, TMC-John L-distribute and data analysis, Lubrizol- Rachelle M; Ford-Mike D/Dean W	ISP-Philipp, SwRI-Jared, Intertek-Joe, Afton-Beth, Savant- Maggie

- Next steps:
 - Determine if it will be a modified or new procedure: **Group decided to go with new procedure**
 - Develop method and report form: open ASTM Collaboration Group and WK #- **Joe approves going forward-Open, review draft-group wanted to include TMC monitoring; option to run both 600 mL and 250 mL-TBD, other comments see draft**
 - Gather donated oils (need at least 7 fluids, good and bad, volume?)- **Yongli to send email for oil group to move forward**
 - Volunteers for testing labs- **Yongli to send email confirming list**



Draft Timeline (realistic)

Task	Date									
	May-Jun 2023	Jul-Aug 2023	Sept-Oct 2023	Nov-Dec 2023	Jan-Feb 2024	Mar-Apr 2024	May-Jun 2024	Jul-Aug 2024		
Develop test procedure and report form (ILS)	█									
Collect and prepare donated oil samples (6 samples?)	█	█								
Ship out oil samples to labs			█							
Labs run tests and submit results for ILS				█	█					
Data analysis to generate Research Report (RR) & Precision						█	█			
Ballot test procedure and RR								█	█	
Generate pass/fail limits [Outside this Surveillance Panel]										

Action Items

- Additional volunteers to add?
- Yongli to request WK item and collaboration group
- Yongli or Jared to send email for method development group to review method
- Yongli to send email for oil group on questions to move forward
- Yongli to send email confirming lab participating list
- Edit timeline as needed



Other New Business?

- Next meeting: Mon June 5, 9:30AM CDT

