ASTM Engine Oil Gelation Test (EOGT) WK86363 Update

EOFT and EOWTT Surveillance Panel Meeting

August 4, 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

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 V9.7) 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 July, and test available in October 2025

Agenda:

- 1. ILS status
- 2. Comment on ILS data from Stats group
- 3. Review labs' funnel diameter measurements
- 4. Data dictionary progress

ILS Updates

- Afton: submitted ILS
- SwRI: completed ILS
- Savant: estimate ILS completion August 15, Canika to update Aug 7
- Intertek: completed ILS
- Valvoline: completed ILS
- Infineum: completed ILS
- Lubrizol: completed ILS
- Richful: completed ILS

Funnel diameter discussion

Notes 7-24-25

-Data showed significant differences between Funnel ID 1 (3.7 to 4.4 mm) and Funnel ID 2(>4.4 mm): recommend only Funnel ID 1 data to be included. (1run for lab 5 with 3.62 mm)

-This is a question for the group to decide before statisticians go forward on data analysis

- Funnel ID:"*Mark funnels that are to be used for EOGT and provide a location to set aside.*
- *Using a caliper that has a (2) decimal place capability, measure the funnel ID in (2) places perpendicular to each other.*
- *Provide the funnel identification and the (2) measurements. Both measurements must be within the 3.7-4.4mm requirement.*"

-Consider lab 8 data: do we include or exclude as outlier?

-Consider normalize volume by funnel ID? Not supported

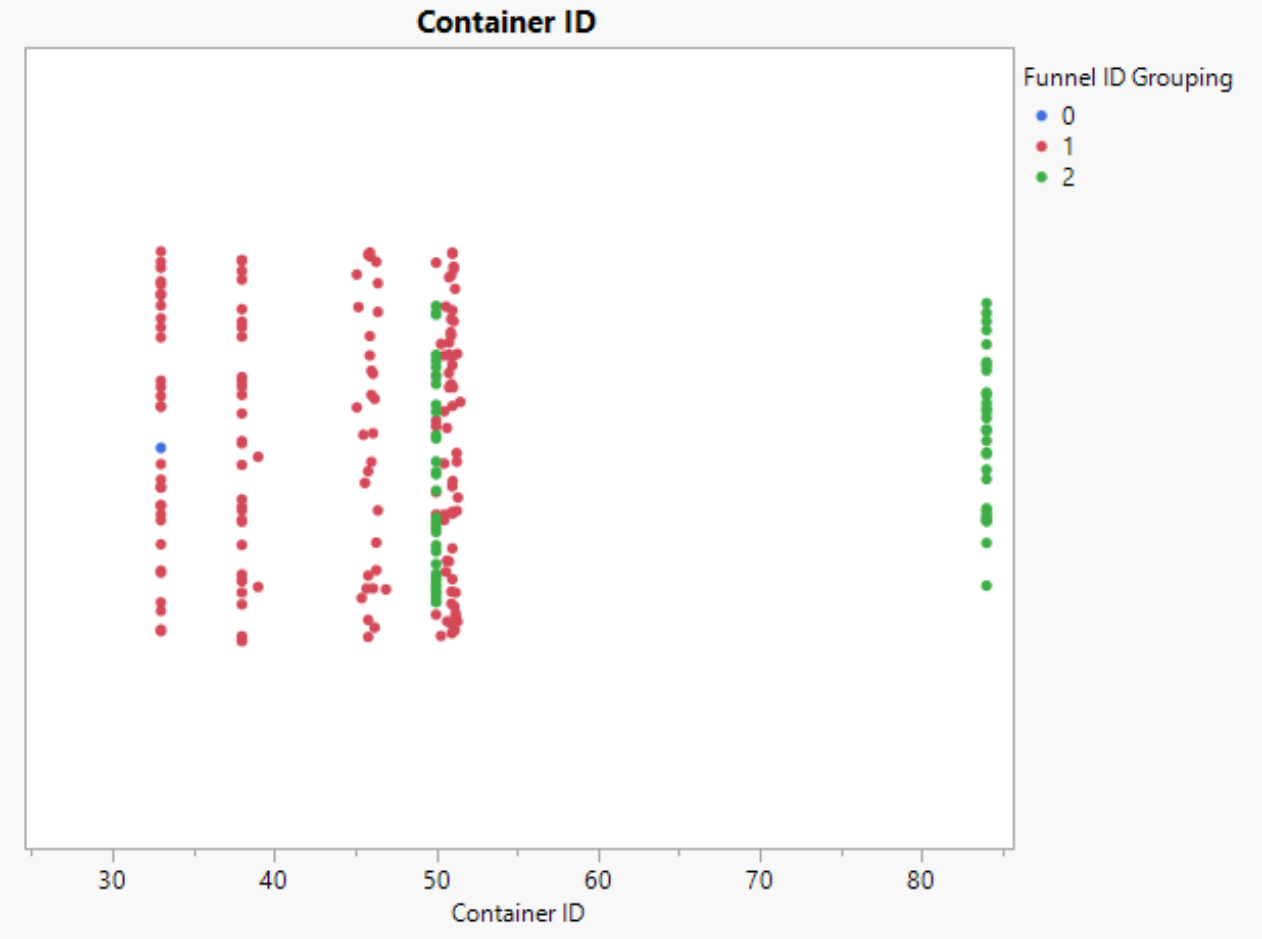
-Ask Labs to rerun ILS: all or only lab 2 and 4?

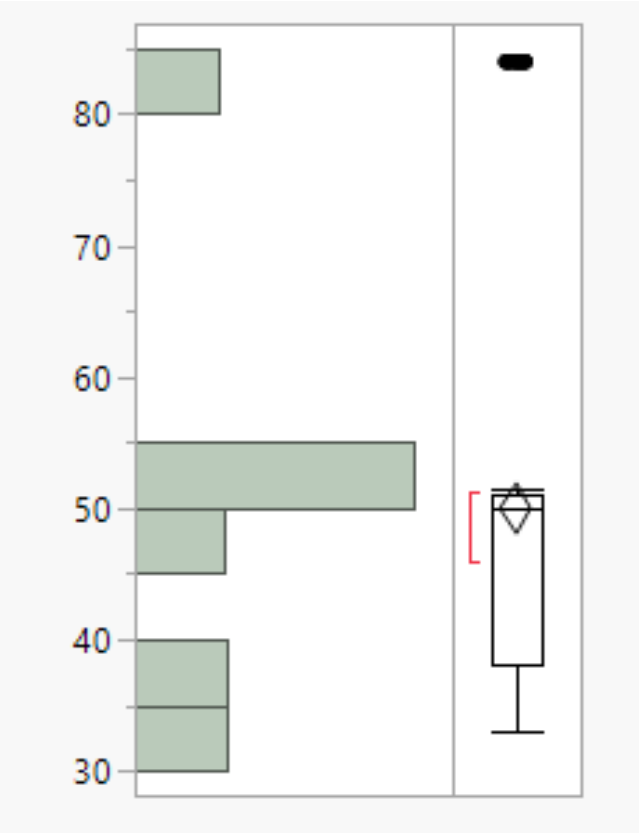
Lab Funnel ID data – Notes 8-4-25

- Current method funnel ID range: 3.7 to 4.4 mm
- Method revision:
  - 6.1. The flow apparatus *shall* consist of a glass funnel and a graduated cylinder.
  - Add 6.1.1.1 Glass Funnel
    - *Mark funnels that are to be used for EOGT and provide a location to set aside.*
    - *Using a caliper that has a (2) decimal place capability, measure the funnel ID in (2) places perpendicular to each other.*
    - *Provide the funnel identification and the (2) measurements. Both measurements must be within the 3.7-4.4mm requirement*
- Excluded Labs 2 and 4 ILS data for funnel ID outside range?
- Labs 1(38mm), 2(84mm), 5 (33mm) to confirm jar container diameter and Amy to review how differences affect results
  - Section 6.4 glass container: 50 mm diameter; need to revise to add tolerance eventually
  - Labs to email part number of 6.4 glass container to Yong-Li, John, Jared by August 11
- Wait to do: Amy to review how container diameter relates to ILS data
  - Understand if there's any influence of jar diameter to data

- John to enter lab's additional funnel ID data to ILS data with previous data
- Group to decide at next meeting: 1) if to exclude any lab data and why, 2) any ILS reruns, 3) proceed with ILS data analysis

Distribution of Container ID



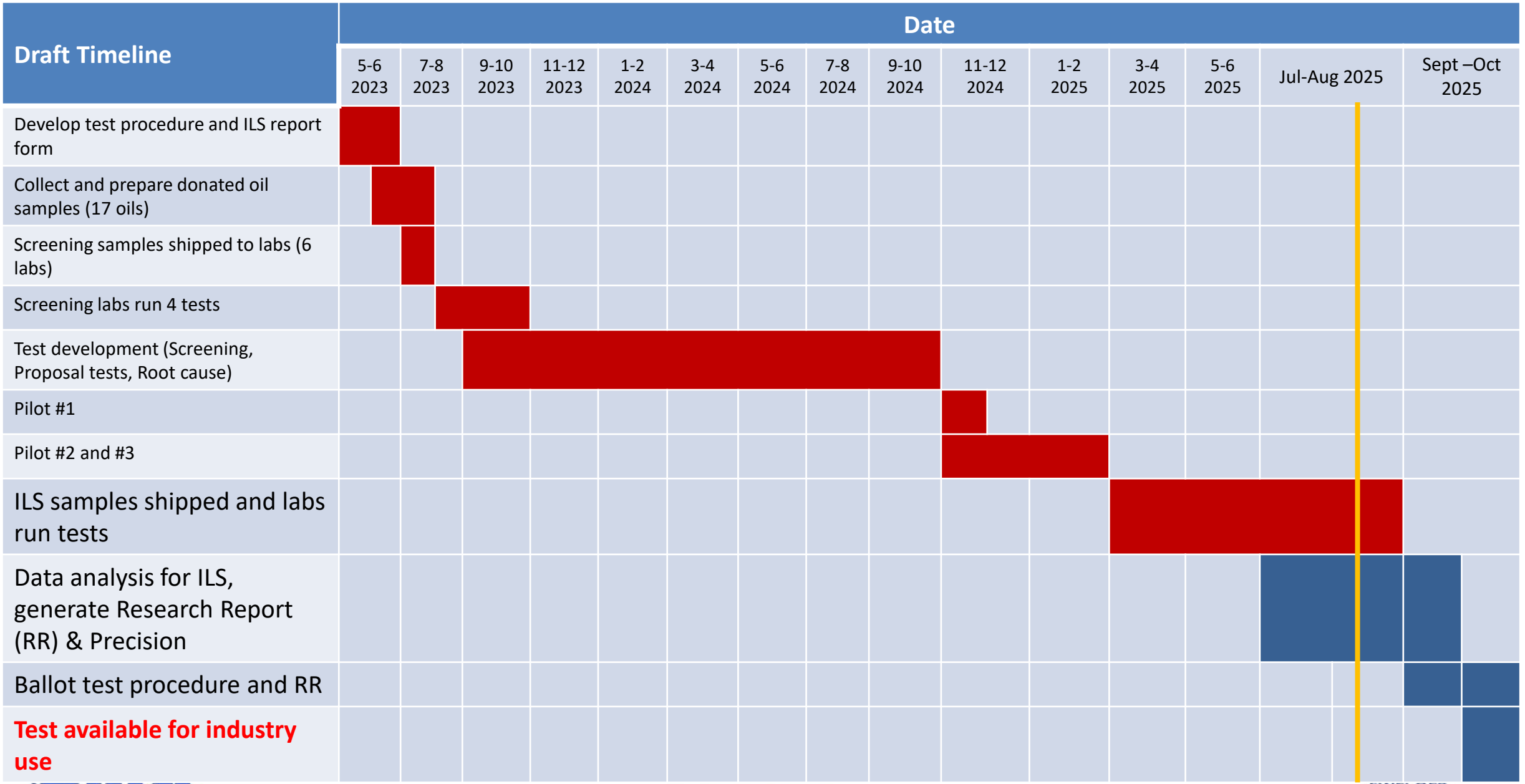


Temperature of sheared samples / Data dictionary

- Waiting on data

- Data Dictionary: No progress as still waiting on ILS report results

Timeline – updated August 8, 2025



Action Items and Next Meeting

- Savant to complete ILS runs – Canika to email Yong-Li update on timing
- Ongoing: Jared and John to work on data dictionary, all to give comments on procedure or video to Yong-Li, labs to review if data submitted accurately
- All: let Yong-Li know of any precise funnel products and suppliers
- Remaining labs (Infineum, Savant, Richful, Afton) to submit data on measured funnel ID. All labs to submit part # for glass container to John (TMC), Yong-Li, Jared by Aug 11
- John to enter lab's additional funnel ID data to ILS data with previous data
- Intertek to measure temperature after shearing and before - Yuliza

- Next Meeting: Tuesday August 19 at 9am CDT for 1 hr

Thank you for your support!

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