

# Mack / Volvo Surveillance Panel Meeting

February 8, 2024

David Brass (chair)

# Agenda

- Volvo T-13 Reference Oil Testing
- Mack T-12 Coolant Change Testing
- New PC9-HS fuel
- AOB

# Volvo T-13 Reference Oil Testing

# Volvo T-13 Reference Oil

Supplier	Test	Oil	%P	%S	%SASH	Viscosity Grade	HTHS	Base Stock Group	FTIR	%KV40 Increase
PC-12 Limits									80	50
A	T-13	2A	0.078	0.333	0.86	10W-30	3.5	II	87.6	28.9
		2B	0.079	0.345	0.83	10W-30	3.5	II	84.4	32.2
		2C	0.080	0.336	0.85	10W-30	3.5	II	77.2	24.2

- Reference oil has been blended as a **10W-30 (2.9-3.2 HTHS)** fluid and is available at TMC

## Precision Targets

Parameter	Standard Deviation Target
FTIR Peak Height Oxidation	11.1
SQRT (% Increase in KV40 from 300 – 360 hrs)	0.929

**MOA Requirements for this test matrix have been met  
MOA has been signed**

The target values provided match the current standard deviation that is utilized in LTMS for both Reference oils 823 and 823-1. As the new reference oil is of better oxidation performance to these reference oils its standard deviation is expected to be as good if not better than those reference oils.

# Volvo T-13 Reference Oil Matrix Testing

Lab A / Stand 1	Lab B / Stand 1	Lab D / Stand 1	Lab G / Stand 1
New Reference Oil	New Reference Oil	New Reference Oil	New Reference Oil
New Reference Oil	New Reference Oil	New Reference Oil	New Reference Oil

**Both tests must be conducted in the same stand and run consecutively (no candidates in between)**

## Current Reference Status

All labs have stands that are about to come off reference. This is a good opportunity to do testing on the new reference oil.

**When would the labs be able to start this matrix?  
Any Concerns?**

Lab	Stand	Date Reference Expires
A	2	3/14/24
A	4	3/23/24
A	8	6/17/24
B	3	3/23/24
D	1	1/1/24
D	2	3/23/24
G	1	3/23/24
G	2	5/22/24
G	3	8/16/23

# Mack T-12 Coolant Changes

# Mack T-12 Coolant

- Penray/PLZ Corp has discontinued their Pencool coolant additive production at some point over the last couple of years. Their website no longer references any coolant products and any remaining backstock at distributors has been exhausted.
- Mack T-11 procedure has been updated to include Chevron Delo Extended Life Coolant 50/50.
- Surveillance Panel during our October 25, 2023 meeting showed interest in having testing done on the new coolant to confirm that it is fit for purpose in the Mack T-12.

Lab	Stand	Referenced Until
A	4	5/22/24
D	1	7/25/24
G	4	5/22/24

- Recommend testing on the next reference cycle using the Chevron Delo Extended Life Coolant 50/50 to help generate that data.