



**COMMITTEE D02 on PETROLEUM PRODUCTS, LIQUID FUELS, AND LUBRICANTS**

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## SEQUENCE IX SURVEILLANCE PANEL

Date: 2 May 23

### ATTENDANCE

SWRI	Christine Eickstead, Khaled Rais, Travis Kostan, Pat Lang, Mike Lochte
INTERTEK	Al Lopez, Jason Soto, Bill Buscher
LUBRIZOL	George Szappanos, Tony Catanese
AFTON	Ben Maddock, Bob Campbell, Amanda Stone, Jason Lekarich
ORONITE	Robert Stockwell, Ricardo Affninito
INFINEUM	Andy Ritchie, Todd Dvorak
TMC	Rich Grundza, Sid Clark
OHT	M. J. Bowden
TEI	Dan Lancot
FORD	Mike Deegan (first five minutes, then had to leave)
GM	Tim Cushing
VALVOLINE	Amol Savant
HALTERMAN CARLESS	W. Hairston
EXXON MOBIL	Paul Rubas
IMTS	Dave Passmore
SHELL	Jeff Hsu, Seth Demel

### ATTACHMENTS:

→ A: Meeting Agenda

## MEETING:

1. **Attendance. See table above.**
2. **Chairman's Comments, Khaled.**
3. **Review and Acceptance of Minutes**
  - a. Last IX SP meeting was 23 Mar 23.

<b>MOTION 1: Approve meeting minutes from last meeting</b>		
Proposed:	Khaled Rais	
Second:	Rich Grundza	
Discussion:	None	
Questions:	None	
Votes:	<i>Waive:</i>	0
	<i>Negative:</i>	0
	<i>Approve:</i>	N/A
<b>Outcome:</b>	<b>Motion passes unanimously</b>	

## 4. Aged Oil Appendix

Showed proposed LTMS at last meeting but didn't take a vote. Can we vote this time? Rich – yes.

Discussion – Sid – should we include anything in the motion to indicate that this should be included in the IX procedure? No, this is the LTMS document, not the procedure. Robert – means we now have everything we need for this test. Anything need to be added? Khaled – don't really have oils. Rich – 3 cans at one lab, 2 at another. Have 6-7 tests' worth at TMC. Conceivable could go for a year if volume continues as is.

<b>MOTION 1: To approve the Aged Oil LTMS system presented during the 23 Mar 23 SP call attached in the minutes of that meeting.</b>		
Proposed:	Khaled Rais	
Second:	Sid Clark	
Discussion:	None	
Questions:	None	
Votes:	<i>Waive:</i>	Amol, Jeff
	<i>Negative:</i>	0
	<i>Approve:</i>	N/A
<b>Outcome:</b>	<b>Motion passes.</b>	

## 5. Pistons

**Diamond pistons – one set sent to SwRI, issue with clearance, remake in progress.**

Dave – yes, that is accurate.

Khaled – any labs in a bind parts wise? No response.

**RO 224 – Rich** – have a re-blend in house, verifying that has been shipped and inventoried in labs. Capable of introducing oil. Fairly well resembles previous 224 – matches very well actually. So can introduce it, but how to go about it?

Travis – what is current severity level of 224? Rich – (presents) current CUSUM – had been trending severe, recent data reasonably close to target (last 6-8 months).

Andy – read out some event counts for recent tests. Rich – 2, 2.5, 2.75, 5.5, 5.5, 2.25, 1.25, 3, 3. Target – 3.68. YIs: 0.375 (transformed) – so last 10 tests are about 0.5 sigma mild

So, how to bring in re-blend? Travis – it depends on current state of test and oil. Current oil is on target, new matches old oil, so introduce with referencing. Unless other reasons to be concerned? Jason – recommend, 221 was mild, 224 is very low. Recommends we introduce new 224 before old 224 runs out.

Rich – old engines show milder results on 221. Christine – some new engines are mild on 221 also

Andy – 221 should never pass. Christine – we’ve come close...

Travis – so 224 re-blend. Do we need to figure out 221 trend first? Why? Shouldn’t impact 224.

Christine – agreed. And 224 is gone, currently running low on retains, so need something to reference on.

Rich – when this test was developed, had oils with much higher event counts. 222 had ~25 events. Andy – got rid of it because of engine carnage. Rich – also, couldn’t get re-blend. So maybe because looking at different RO range, should we reconsider transformation of results? Andy – no. Travis – transformations are used to stabilize variance, not to accommodate shifting targets. Bob – makes sense that if test goes mild, in this case 221, would move more than 224. So is everything milder, and it just shows more on 221? Christine – but 221 caused work stoppage. Could still pass 224.

Rich – so introduce 224 using current targets, keep fingers crossed. Travis – main thing is to look at data after few runs and reevaluate, maybe readjust targets. Set some date so we can track? Rich – let’s set a call for next month. If no data by that time, will push meeting.

Action – Khaled to call an SP meeting for next month to review new RO 224 results.

Andy – would like new 224, old 224 back-to-back, then extend reference period? Rich – if new engine, can run back-to-back. George – but a new engine’s severity is more volatile. Christine – anyone looking to introduce new engine soon? Swri – no. Jason – not sure yet. George – no. Ben – yes, soon.

Amol – can an engine be rebuilt if go mild, instead of retiring? Rich – no, not allowed in the procedure. Amol – gray area, not disallowed in the procedure. Rich – not gray area, no rebuild instructions.

## 6. New Business

Report form updates: Rich – still have to do some work. Not ready yet, need to add another form.

## 7. Meeting adjourned.

## **AGENDA**

### **ASTM D8291 Sequence IX Surveillance Panel (SwRI / Teams)** Khaled Rais – Chairman

Tuesday, May 2, 2023– 3:00 PM to 5:00 PM (CST)

[Click here to join the meeting](#)

1. Attendance
2. Chairman's Comments
3. Review & Acceptance of Minutes
  - 3.1. Acceptance of the March 23, 2023 WebEx meeting minutes.
4. Aged Oil Appendix Update
  - 4.1. LTMS system (Vote needed)
5. Status of New Pistons (Sid Clark / Dave Passmore)
6. Status of 224 (Rich Grundza)
7. Aged Oil Report Form Updates
8. New Business
9. Next Meeting: Will be at the call of the chairman.