

## SEQUENCE IX SP MEETING

Date: 23 Aug 2021

### ATTENDANCE

<b>SWRI</b>	Khaled Rais (Chair), Pat Lang, Travis Kostan
<b>INTERTEK</b>	Al Lopez, Jason Soto
<b>LUBRIZOL</b>	George Szappanos
<b>AFTON</b>	Ben Maddock,
<b>ORONITE</b>	Robert Stockwell
<b>INFINEUM</b>	Charlie Leverett, Doyle Boese, Andrew Ritchie
<b>APL</b>	Timothy Hadaway, Felix Lück
<b>TMC</b>	Rich Grundza
<b>FORD</b>	Mike Deegan
<b>GM</b>	Khaled Zreik, Brad Cosgrove
<b>HALTERMANN SOLUTIONS</b>	Prasad Tumati, Tracey King
<b>HALTERMANN CARLESS</b>	Izabela Gabrel, Jens Schaak
<b>TEI</b>	D. Lanctot
<b>OHT</b>	Jason Bowden
<b>BP</b>	Tim Matthews
<b>CORYTON FUELS</b>	Thorsten Kaebnick

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**MEETING:**

Reviewed minutes from previous meeting.

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

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**TMC:**

Rich presents the LTMS summary.

- Charts show that we are in control
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**Fuel:**

Prasad presents fuel status.

- Plenty of fuel in the system now with 105,000 gallons of EEE in stock. Prasad will provide monthly fuel levels as requested through the TGC.
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**Old Business:**

- Machined 2019- BB pistons:
    - Pistons have been machined by SwRI; SwRI and IAR have sets and SwRI to provide sets to LZ and APL
      - IAR
        - No timeline yet on when they will be able to start a test
      - SwRI
        - Engine is built and is planned for installation in 2-3 weeks depending on test demand
  - Information letter for previous form changes
    - Rich is going over them now and should have the letter in the next couple of weeks
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**Pursuing an Alternate Fuel Procedure:**

Pat provides background:

- SwRI has been contacted by two potential alternate fuel suppliers from Europe.
- The standard protocol put forward by TGC and used in other test types has been to bring the request to the surveillance panel for approval to move forward and develop a qualification procedure.
- The Surveillance Panel has the opportunity to reject the procedure once it is developed even if it is recommended by the task force and this has happened in other test types.

- This is initial vote is intended to determine whether the industry is comfortable with possibly having multiple fuels at all.
- Travis – We really just want to confirm that no one is deadest against even the idea of having an alternate supplier before we go through the process of developing a testing protocol or matrix.

Discussion:

- Andy – His understanding was that the ability to qualify additional fuels in Europe was always an expectation given that we have a lab participating in Europe and this spec is being used by ACEA. In any case, it is an imperative now since it is not reasonable to ship fuel from the US to Europe.
- Timothy – Yes, it would not be economically viable for them to import large quantities of fuel and their expectation was a fuel would eventually be qualified.
- Thorsten – Agrees with this assessment and is willing to participate in the qualification process as needed
- Al – The qualification of European labs is complicated by the fact that they need new hardware (machined pistons) and alternate fuel to be qualified before they can get their labs qualified. This would have to be done in that order and not simultaneously.
- Timothy – Yes, they agree with that assessment.
- Thorsten – Also agrees that one factor needs to be approved at a time.
- Charlie – Therefore, fuel must be shipped to the USA to currently qualified labs correct?
- Khaled – Yes, believe that is the plan and some work has already been done but that question may be prospective alternate suppliers would like to comment.
- Thorsten – Yes, fuel would be shipped to the USA.
- Travis – These details are important but this is just approval to pursue. Specific technical or logistical concerns can be addressed later if there is support for the idea of allowing alternate fuels
- Pat – With that said, we should vote but we would like to hear from the OEM test sponsor, Ford, before we go through the list.
- Mike Deegan – Understanding is EEE is not that hard to produce so it shouldn't be too difficult?
- Andy – Well there are a lot of fuel parameters that are known to be important like T90 temperatures other volatility characteristics and aromatic content but these can be dealt with and ultimately in keeping with the spirit of ASTM we need to be accessible to willing participants.
- Timothy – Also fuel is one of many test factors that are subject to variability including hardware, fuel batch, and control of test conditions. He has an Ishikawa diagram full of branches for LSPI but we manage to run the test.
- Mike Deegan – With that additional info, he supports inclusion of US and European fuel suppliers.
- Al – What about the potential for blending of fuel in the US by labs that had previously been qualified from European facilities. Are people comfortable with that?
- Khaled – That is important concern but it is a detail probably better suited for a task force meeting if there is support for the idea of alternate suppliers in principle.
- Motion: To pursue a determining a qualification procedure for alternate fuel suppliers.

Motion 2: To pursue a qualification procedure for alternate fuel suppliers.						
COMPANY	PERSON	PRESENT	VOTING MEMBER?	ACCEPT	REJECT	WAIVE
SwRI 2nd	Khaled Rais (Chair)	✓	X	X		
	Christine Eickstead					
	Pat Lang	✓				
	Travis Kostan	✓				
Intertek	Al Lopez	✓				
	Jason Soto	✓	X			X
	Martin Chadwick					
Lubrizol	George Szappanos	✓	X	X		
	Jerome Brys					
	Joe Gleason					
Afton	Christian Porter		X			
	Ben Maddock	✓		X		
	Bob Campbell					
	Ed Altman					
	Todd Dvorak					
Oronite	Robert Stockwell	✓	X	X		
Infineum	Charlie Leverett	✓				
	Andrew Ritchie	✓	X	X		
	Doyle Boese	✓				
APL Motion	Timothy Hadaway	✓	X	X		
	Mark Hawthorne					
	Christian Muller					
	Felix Lück	✓				
TMC	Rich Grundza	✓	X	X		
Ford	Mike Deegan	✓	X	X		
Shell	Jeff Hsu		X			
Valvoline	A C Savant		X			
Neste	Chris Castanien		X			
OHT	J H Bowden	✓	X			X
TEI	C. Knight					
	D. Lanctot	✓	X	X		
Chrysler	Haiyang Tang		X			
ExxonMobil	Paul J. Rubas		X			
GM	Tim Cushing		X			
	Khaled Zreik	✓				
	Brad Cosgrove	✓				
BP	Nick Janssen		X			
	Tim Matthews	✓		X		
Haltermann	Prasad	✓	X			X
Haltermann Carless	Isabella Gabrel	✓	X	X		
	Jens Schaak	✓				
Coryton Fuels	Thorsten Kaebernick	✓	X	X		
				<b>TOTAL</b>	<b>12-0-3</b>	

With the passing of this motion, the Sequence IX fuels taskforce will start working on developing the protocol for approving an alternate supplier.

**Meeting adjourned.**