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# ASTM D6794 EOWT Teleconference

November 4, 2019

Yong-Li McFarland ASTM EOWTT & EOFT CHAIR



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FUELS & LUBRICANTS RESEARCH



- Roll Call
- Suggested Changes to ASTM D6794 EOWTT
- Other Business



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### Roll Call

Name	Company	Attendance
Ernest Morel	Afton Chemical	
Man Hon Tsang	Chevron Oronite	
Dennis Gaal	Exxonmobil	Dennis
Joe Franklin, Mike Lopez	Intertek	Mike
Udo Boecker, Michael Johnscher	ISP	
Michael Faile, Jeff Winfield	Lubrizol	Mike F, Megan Browning
Litchi Xie, Carl Chen	Lubrizol Additive (Zhuhai) Co., Ltd.	
Jason Bowden	OH Technologies Inc	Matt B
Greg Miiller, Maggie Smerdon	Savant Inc	
Becky Grinfield, Yong-Li McFarland*	SwRI	Becky, YM
Brittany Pfleegor, Frank Farber	TMC	Brittany
Hap Thompson		
Guests		



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## Suggested Changes Background

TMC: Brittany Pfleegor

As the method is currently written, in Summary section 4.1 it states "Add deionized water to the test oil for a final solution of 0.6%, 1.0%, 2.0%, and 3.0% water and oil." which leads to the understanding that all four treatment levels must be run together. Also, in the Preparation section 9, the current method does not state an option to skip any of the sections but rather guides through the preparation of each water treatment level. As a result, per the current wording of the method, it is required to run all four treatment levels at the same time. It has come to the TMC's attention that this is not how we have historically been processing the tests because we have allowed single water treatment level tests outside of a set of four. Overall, we do not think the current wording of the method is clear enough and our intent is to revise the method to match this history of allowing each water treatment level to be evaluated separately.



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# Suggested Changes (1 of 3)

Section	Current Wording	
4.1	Add deionized water to the test oil for a final solution of 0.6 %, 1.0 %, 2.0 %, and 3.0 % water in oil. The sample is heated to 70 °C for 6 h, followed by storage at room temperature.	Ac fir % 70 te
5.4	This test method subjects the test oil and the new oil to the same treatments such that the loss of filterability can be determined.	Th th th de lev sir





### **Proposed Wording**

dd deionized water to the test oil for a nal solution of 0.6 %, 1.0 %, 2.0 %, or 3.0 water in oil. The sample is heated to °C for 6 h, followed by storage at room mperature.

nis test method subjects the test oil and e new oil to the same treatments such at the loss of filterability can be etermined. The four water treatment vels may be tested individually, all four multaneously, or any combination of ultiple water treatment levels.

# Suggested Changes (2 of 3)

Section	Current Wording		<b>Proposed Wording</b>	
9.1	Add 49.7 g ± 0.1 g of test oil, 0.3 g ± 0.05 g of deionized water using the 1000 μL syringe to the blender, and mix for 30 s ± 1 s at 18 000 r /min ±10 %.		Determine the water treatment rate for the test and record it. Add the appropriate quantity of test oil and deionized water (see Table 1) to the blender for the desired water treatment rate, using the 1000 µL syringe.	
9.2	Repeat 9.1 with 49.5 g $\pm$ 0.1 g of test oil and 0.5 g $\pm$ 0.05 g water for 1 % water, 49.0 g $\pm$ 0.1 g of test oil and 1.0 g $\pm$ 0.05 g water for 2 % water, and 48.5 g $\pm$ 0.1 g of test oil and 1.5 g $\pm$ 0.05 g water for 3 % water.Mix test oil and water in the blender for 30 s $\pm$ 1 s at 18 000 r/min $\pm$ 10 %.			
		Table 1: Test Oil & Water Sample Quantities, by Water Treat Rate		
Table 1		Treatment Rate	Test Oil	Deionized Water
		0.6%	$49.7 \text{ g} \pm 0.1 \text{ g}$	$0.3 \text{ g} \pm 0.05 \text{ g}$
		1.0%	$49.5 g \pm 0.1 g$	$0.5 \ g \pm 0.05 \ g$
		2.0%	$49.0 \text{ g} \pm 0.1 \text{ g}$	$1.0 \text{ g} \pm 0.05 \text{ g}$
		3.0%	$48.5 \text{ g} \pm 0.1 \text{ g}$	$1.5 \text{ g} \pm 0.05 \text{ g}$
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# Suggested Changes (3 of 3)

Section	Current Wording
13.1.5	For TMC-monitored tests, contact the TMC for reporting requirements.
13.1.6	For tests not monitored by the TMC, an in-house quality assurance sample can be used to evaluate test acceptance.
	{Renumber existing sectio 13.1.6 as 13.1.6 & 13.1.7.

Panel had few questions for the suggested changes and liked the table.

YongLi to work with Brittany on sending out eBallot for Suggested Changes proposed in this presentation





### **Proposed Wording**

Water Treatment Rate tested.

For TMC-monitored tests, contact the TMC for reporting requirements.

ns 13.1.5 & 3.1.6 & 13.1.7, respectively }

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## TMC Lubricant Test Monitoring System (LTMS)

- TMC effort to add EOWT and EOFT to LTMS in near future
- Short introduction Brittany Pfleegor
- http://www.astmtmc.cmu.edu/ftp/docs/ltms/ltms.pdf
- Yong-Li to work with Brittany on this transition



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### **Other Business?**

- After inventory of metal cans are depleted, have switched to Nalgene bottles – Labs to confirm with YongLi
- Anything else?
- Meeting adjourned at 1:57pm CST



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