

**CAT Surveillance Panel Meeting / Conference Call**  
**August 27, 2013**  
**12:00 pm Central**

**Attendance (@ SwRI)**

Jim Gutzwiller-Infineum  
Elisa Santos - Infineum  
Bob Salgueiro - Infineum  
Pat Fetterman - Infineum  
Jeff Clark - TMC  
Sean Moyer - TMC  
Jim Matasic - Lubrizol  
Nick Secue - Lubrizol  
Mike Conrad - Lubrizol  
Bob Campbell - Afton  
Christian Porter - Afton  
Mark Sutherland - TEI  
Jim Carter - Haltermann  
Andy Broff - Intertek  
Jim Moritz - Intertek  
Jim McCord - SwRI  
Kent Johnson - SwRI  
Bob Warden - SwRI  
Greg Shank - Mack/Volvo  
Riccardo Conti - ExxonMobil  
Mark Cooper - Oronite  
Jim Rutherford - Oronite  
Robert Stockwell - GM

**Attendance (via teleconference)**

Hind Abi-Akar - CAT  
Jason Bowden - OHT  
Andrew Stevens - Lubrizol  
Brad Carter - Intertek  
Mike Wendling - Haltermann  
Zack Bishop - TEI  
Adam Roig - Intertek

**SDTF Fuel Batch Acceptance**

The primary purpose of this call was to consider the most recent batch of Haltermann SDTF fuel which is out of spec for TAN (see attachments). After a brief discussion it was moved (Fetterman, Carter) to accept this fuel for all testing, effective immediately. The motion passed without objection. The panel will likely address the TAN spec at a future meeting.

The next meeting will be in a few weeks to review: the 1N severity issue; a possible C13 severity issue (mild 2nd ring top carbon); and cam and crank position sensor availability for the 1P.

The meeting adjourned at 12:15 pm



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# Sales specification

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Johann Haltermann Ltd.

**PRODUCT:** SDTF2

**Batch No.:** BF2521HW10

**PRODUCT CODE:** HF0001

**TMO No.:** \_\_\_\_\_

**Tank No.:** 43

**Analysis Date:** 7/8/2013

TEST	METHOD	UNITS	SPECIFICATIONS			RESULTS
			MIN	TARGET	MAX	
Distillation - IBP	ASTM D86	°F		Report		359
10%		°F		Report		425
50%		°F	500		530	522
90%		°F	590		620	607
Distillation - EP		°F	640		690	654
Gravity	ASTM D4052	°API	33.0		36.0	34.7
Density	ASTM D4052	kg/m <sup>3</sup>		Report		850.8
Pour Point	ASTM D97	°F			20	0
Cloud Point	ASTM D2500	°F		Report		9
Flash Point	ASTM D93	°F	140			165
Viscosity, 40°C	ASTM D445	cSt	2.0		4.0	2.8
Natural Sulfur	ASTM D4294	wt %	0.38		0.42	0.42
Natural Sulfur	ASTM D2622	wt %		Report		0.432
Composition, aromatics	ASTM D1319	vol %		Report		20.3
Composition, olefins	ASTM D1319	vol %		Report		3.2
Composition, saturates	ASTM D1319	vol %		Report		76.5
Cracked stocks				None		None
Basic Sediment & Water	ASTM D1796	vol %			0.1	0.0
Ramsbottom carbon, 10% residue	ASTM D524	wt %			0.20	0.13
Ash content	ASTM D482	wt %			0.01	<0.001
Acid Number	ASTM D664	mg KOH/g			0.15	<b>0.32*</b>
Copper Corrosion	ASTM D130				2	1a
Cetane Number	ASTM D613		47.0		53.0	50.0
Aliphatic paraffins	ASTM D2425	wt %		Report		30.7
Monocycloparaffins	ASTM D2425	wt %		Report		14.4
Dicycloparaffins	ASTM D2425	wt %		Report		18.0
Tricycloparaffins	ASTM D2425	wt %		Report		6.7
Alkylbenzenes	ASTM D2425	wt %		Report		10.4
Indanes/Tetralins	ASTM D2425	wt %		Report		2.9
Indenes	ASTM D2425	wt %		Report		2.3
Naphthalene	ASTM D2425	wt %		Report		3.0
Naphthalenes	ASTM D2425	wt %		Report		6.6
Acenaphthenes	ASTM D2425	wt %		Report		3.2
Acenaphthylenes	ASTM D2425	wt %		Report		1.1
Tricyclic aromatics	ASTM D2425	wt %		Report		0.7

\*Off Spec