

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



haltermannsolutions

fueling the world, one solution at a time

Telephone: (800) 969-2542

Sales specification

FAX: (281) 457-1469

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 ³		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	0.32*
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