

CERTIFICATE OF ANALYSIS

CEC EXPERIMENTATION FUEL DF-70-08 SF 006

LOW LUBRICITY REFERENCE FUEL

Batch-No.: 1 - WF10513AFF **Tank:** Drum **GMID:** 314481 **Date of Analysis:** 10.06.2008

Feature	Units	Result	Limits		Method
			Minimum	Maximum	
Cetane Index	-	51,6	----	----	EN ISO 4264
Density at 15 °C	kg/m3	815,3	----	----	EN ISO 12185
Distillation IBP	°C	185,3	----	----	EN ISO 3405
Dist. 10% v/v	°C	203,1	----	----	EN ISO 3405
Dist. 50% v/v	°C	232,7	----	----	EN ISO 3405
Dist. 90% v/v	°C	269,7	----	----	EN ISO 3405
Distillation FBP	°C	288,9	----	----	EN ISO 3405
Flash Point	°C	72	61	----	EN ISO 2719
CFPP	°C	-39	----	----	EN 116
Viscosity at 40 °C	mm²/s	1,932	----	----	EN ISO 3104
Sulfur	mg/kg	<3,0	----	----	EN ISO 20846
Corrosion - Copper		1A		1	EN ISO 2160
Aromatics, Mono	% wt	6,6	----	----	EN 12916
Aromatics, Di	% wt	0,4	----	----	EN 12916
Aromatics, Poly (2+3+)	% wt	0,4	----	----	EN 12916
Aromatics, Total	% wt	7	----	----	EN 12916

Parameters according to CEC-F-06-A-96 results of Round Robin Test:

HCF	55	µm/kPa
WS1.4	623 +/- 76	µm

The lubricity reference fuel has to be approved in a round robin test of the CEC Working Group SG-F-006. The value and the limits for the wear scar and the humidity correction factor are estimated in the round robin.

Haltermann Products, Werk Hamburg,
Zweigniederlassung der DOW Olefinverbund GmbH
- Labor - Quality Manager- Christine Behrens



This Certificate of Analysis applies to: _____ **Date of Printing** **29.01.2009**

Order No.: <u>07020330</u>	Customer Order No. <u>3280097</u>
Date: <u>24.04.2009</u>	Signature: <u>K. Jacobi</u>



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