D133-DE4500 Grasbrook LubProd
Worthdamm 32&50
Hamburg
20457
Germany

04078949506

Certificate of Analysis

Material	550035720	Date Manufactured	17 Oct 2014
Material Description	AeroShell Fluid 41 1*20L	Date Tested	20 Oct 2014
Batch Number	10714937		

Test Description	Result	Unit	Method
Appearance	Clear and Bright	-	Visual
Density 15℃ (by Densitymeter)	877,2	kg/m3	ISO 12185
Foam Chara.(Seq.I),Stablity	0	ml	ASTM D892
Foam Chara.(Seq.I),Tendency	40	ml	ASTM D892
Foam. Chara.(Seq.II),Stablity	0	ml	ASTM D892
Foam.Chara.(Seq.II),Tendency	30	ml	ASTM D892
Foam.Chara.(Seq.III),Stablity	0	ml	ASTM D892
Foam.Chara.(Seq.III),Tendency	60	ml	ASTM D892
Flash Point, PMcc	105	CEL	ISO 2719
Phosphorus Content by ICP %M	0,0495	%(m)	DIN 51399-1
Pour Point	-75	CEL	ASTM D5950
Viscosity Kinematic 100℃	5,466	mm2/s	ISO 3104
Viscosity Kinematic 40℃	14,61	mm2/s	ISO 3104
Viscosity Kinematic -40℃	500,9	mm2/s	ISO 3104
Viscosity Kinematic -54℃	2426	mm2/s	ISO 3104
Barium Content by ICP %M	< 0,0001	%(m)	DIN 51399-1
Color Lovibond Red	21	******	IP 17
CU Corrosion 72h/135℃ / 2e	2a	-	ASTM D130
Evaporation Loss (ASF) 6h 71℃	10,2	%(m)	ASTM D972
Ionol CP by IR	0,43	%(m)	IEC 60666
TAN by Potentio-Titration	0,02	mgKOHg	ASTM D664
Particle Cnt. (HIAC) 5-15µm	< 10000	******	FED-STD-791 3012
Particle Cnt. (HIAC) 15-25µm	< 1000	******	FED-STD-791 3012
Particle Cnt. (HIAC) 25-50µm	< 150	******	FED-STD-791 3012
Particle Cnt. (HIAC) 50-100µm	< 20	******	FED-STD-791 3012
Particle Cnt. (HIAC) > 100 µm	< 5	******	FED-STD-791 3012

Date	21 Oct 2014
Certified by	Michael Mahn
Preferred contact	+ 49 (0) 40 80 90 80 504

Grasbrook Lubricants Centre maintains a Quality Control System to ensure product supplied meets required specifications. Certified to DIN EN ISO 9001: 2008 and VDA 6.1. This CoA conforms with DIN EN 10204 acc.3.1
Retest 3 years after production date.Specifications MIL-PRF-5606H DEF STAN 91-48

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Rubber Swell Test_Qual	Not Applicable	-	FED-STD-791 3603

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