

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



Certificate of Analysis

Material 550043823
 Material Description AeroShell Fluid 41 (EU) 24* 1qt
 Batch Number 11326426

Date Manufactured 23 May 2019
 Date Tested 27 May 2019

Test Description	Result	Unit	Method
Appearance	Clear and Bright	-	Visual
Density 15°C (by Densitometer)	871,8	kg/m3	ISO 12185
Foam Chara.(Seq.I),Stability	0	ml	ASTM D892
Foam Chara.(Seq.I),Tendency	30	ml	ASTM D892
Foam. Chara.(Seq.II),Stability	0	ml	ASTM D892
Foam.Chara.(Seq.II),Tendency	30	ml	ASTM D892
Foam.Chara.(Seq.III),Stability	0	ml	ASTM D892
Foam.Chara.(Seq.III),Tendency	40	ml	ASTM D892
Flash Point, PMcc	97	CEL	ASTM D93
Phosphorus Content by ICP %M	0,0470	%(m)	ASTM D5185
Pour Point	-60	CEL	ASTM D97
Viscosity Kinematic 100°C	5,352	mm2/s	ASTM D445
Viscosity Kinematic 40°C	19,96	mm2/s	ASTM D445
Viscosity Kinematic -40°C	409	mm2/s	ASTM D445
Viscosity Kinematic -54°C	1798	mm2/s	ASTM D445
Solid Particles Test Grav.)	0,300	mg0.1l	ASTM D4898
Barium Content by ICP %M	< 0,0001	%(m)	ASTM D5185
Color Lovibond Red	30	*****	IP 17
CU Corrosion 72h/135°C / 2e	2b	-	ASTM D130
Evaporation Loss (ASF) 6h 71°C	14,10	%(m)	ASTM D972
Ionol CP by IR	0,36	%(m)	DIN 51451
Low Temp Stab 72h/-54°C	Clear and Bright	-	FED-STD-791 3458
TAN by Potentio-Titration	0,02	mgKOHg	ASTM D664
SteelonSteel(VKA)ASTM 1h 75°C	0,69	mm	ASTM 4172 B
Particle Cnt. (HIAC) 5-15µm	< 8000	*****	FED-STD-791 3012
Particle Cnt. (HIAC) 15-25µm	< 1000	*****	FED-STD-791 3012

Date 27 May 2019
 Certified by Eric Froboese
 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 9001:2015

This CoA conforms with DIN EN 10204 acc.3.1

Retest 3 years after production date.Specifications MIL-PRF-5606J DEF STAN 91-48

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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
Water Content Oven (KF)	28	mg/kg	ASTM D6304
Colour	Within the Min-Max Range	-	ASTM D1500
Relative density at 15.6/15.6°	0,8723	*****	ASTM D4052
Rubber swell test	23,1	%	ASTM D4289
NAS Class Particulate Compting	< 5	*****	NAS 1638

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