

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



## Certificate of Analysis

Material 550062450  
 Material Description AeroShell Fluid 41 (EU) 24\* 1qt  
 Batch Number 11919956

Date Manufactured 20 Jul 2022  
 Date Tested 01 Aug 2022

Test Description	Result	Unit	Method
Appearance	Clear and Bright	-	VISUAL
Density 15°C (by Densimeter)	869,0	kg/m3	ISO 12185
Foam Chara.(Seq.I),Stablity	0	ml	ASTM D892
Foam Chara.(Seq.I),Tendency	60	ml	ASTM D892
Foam. Chara.(Seq.II),Stablity	0	ml	ASTM D892
Foam.Chara.(Seq.II),Tendency	20	ml	ASTM D892
Foam.Chara.(Seq.III),Stablity	0	ml	ASTM D892
Foam.Chara.(Seq.III),Tendency	50	ml	ASTM D892
Flash Point, PMcc	99	CEL	ASTM D93
Phosphorus Content by ICP %M	0,0485	%(m)	ASTM D5185
Pour Point	-72	CEL	ASTM D97
Viscosity Kinematic 100°C	5,219	mm2/s	ASTM D445
Viscosity Kinematic 40°C	13,32	mm2/s	ASTM D445
Viscosity Kinematic -40°C	354	mm2/s	ASTM D445
Viscosity Kinematic -54°C	1334	mm2/s	ASTM D445
Solid Particles Test Grav.)	0,200	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	14,75	%(m)	ASTM D972
Ionol CP by IR	0,38	%(m)	DIN 51451
Low Temp Stab 72h/-54°C	Clear and Bright	-	FED-STD-791 3458
TAN by Potentio-Titration	0,01	mgKOHg	ASTM D664
SteelonSteel(VKA)ASTM 1h 75°C	0,81	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 02 Sep 2022  
 Certified by Eric Froboese  
 Preferred contact + 49(0)40809080504

*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  
 Rubber swell test is performed using SAE AMS3217/2D NBR-L slabs  
 This document has been produced electronically and is valid without signature*

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Material	550062450	Date Manufactured	20 Jul 2022
Material Description	AeroShell Fluid 41 (EU) 24* 1qt	Date Tested	01 Aug 2022
Batch Number	11919956		

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)	63	mg/kg	ASTM D6304
Colour	Within the Min-Max Range	-	ASTM D1500
Relative density at 15.6/15.6°	0,8695	*****	ASTM D4052
Rubber swell test	26,4	%	ASTM D4289
NAS Class Particule Compting	< 5	*****	NAS 1638

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