



Certificate of Analysis

Material 550043813
 Material Description AeroShell Fluid 41 (EU) 4*5L
 Batch Number 11736352

Date Manufactured 25 May 2021
 Date Tested 07 Jun 2021

Test Description	Result	Unit	Method
Appearance	Clear and Bright	-	Visual
Density 15°C (by Densitometer)	869,5	kg/m3	ISO 12185
Foam Chara.(Seq.I),Stablity	0	ml	ASTM D892
Foam Chara.(Seq.I),Tendency	30	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	20	ml	ASTM D892
Flash Point, PMcc	94	CEL	ASTM D93
Phosphorus Content by ICP %M	0,0479	%(m)	ASTM D5185
Pour Point	-72	CEL	ASTM D97
Viscosity Kinematic 100°C	5,219	mm2/s	ASTM D445
Viscosity Kinematic 40°C	13,51	mm2/s	ASTM D445
Viscosity Kinematic -40°C	358	mm2/s	ASTM D445
Viscosity Kinematic -54°C	1546	mm2/s	ASTM D445
Solid Particles Test Grav.)	0,100	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	2a	-	ASTM D130
Evaporation Loss (ASF) 6h 71°C	14,18	%(m)	ASTM D972
Ionol CP by IR	0,37	%(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	0,68	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 15 Jun 2021
 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
 This document has been produced electronically and is valid without signature#*

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



Certificate of Analysis

Material 550043813
Material Description AeroShell Fluid 41 (EU) 4*5L
Batch Number 11736352

Date Manufactured 25 May 2021
Date Tested 07 Jun 2021

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)	44	mg/kg	ASTM D6304
Colour	Within the Min-Max Range	-	ASTM D1500
Relative density at 15.6/15.6°	0,8700	*****	ASTM D4052
Rubber swell test	24,3	%	ASTM D4289
NAS Class Particule Compting	< 5	*****	NAS 1638

Date 15 Jun 2021
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

This document has been produced electronically and is valid without signature#