

D133-DE4500 Grasbrook LubProd
Worthdamm 32
Hamburg
20457
Germany



Certificate of Analysis

Material550044223

Date Manufactured08 Aug 2024

Material DescriptionDiala S4 ZX-I 1*209L

Date Tested14 Aug 2024

Batch Number12365522

Test Description	Result	Unit	Method
Viscosity Kinematic 40°C	9,75	mm2/s	ISO 3104
Viscosity Kinematic -30°C	427	mm2/s	ISO 3104
Appearance IEC60296	Clear and Bright	-	IEC 60296
Colour (ASTM) (Quantitative)	0,5	*****	ISO 2049
Density 20°C (by Densitymeter)	803,9	kg/m3	ISO 12185
Pour Point	-48	CEL	ASTM D5950
Flash Point, PMcc	184	CEL	ISO 2719
Breakdown Voltage	86	kV	DIN EN 60156
Breakdown Voltage a. Treatment	> 70 kV	-	DIN EN 60156
Dielectric Dissip Factor 90°C	0,0001	*****	IEC 60247
Water Content KF MG/KG	7	mg/kg	DIN EN ISO 12937
BHT Content by IR	0,196	%(m)	IEC 60666
Neutr. Value (Potentiometric)	0,01	mgKOHg	IEC 62021-1
PCB Content (PAE)	< 2,0 mg/kg	-	IEC 61619
Sulphur Content MG/KG	< 1	mg/kg	DIN 51399-1
Corr.Sul. 18h 100°C (Ag-Strip)	Non Corrosiv	-	DIN 51353
Corr.Sul 48h 150°C ASTM (Cu)	Non Corrosiv	-	ASTM D1275B
Corr.SulphurIEC(CUStrip,Paper)	Negative	-	IEC 62535
Diala Interfacial Tension Inst	53	mN/m	ASTM D971
Furfural Content	< 0,025	mg/kg	IEC 61198
Ageing IEC 120°C 500h(Ox.stab)	Completed	-	DIN EN 61125/C
IEC120°C500h-Neutr. Value	0,02	mgKOHg	DIN EN 61125/C
IEC120°C500h-Sludge Content	0,0072	%(m)	DIN EN 61125/C
IEC120°C500h-Die Diss Fac 90°C	0,0004	*****	DIN EN 61125/C

Date21 Aug 2024

Certified byEric 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

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