

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



Certificate of Analysis

Material

Material Description

Batch Number

550027843

Shell Spirax S6 ATF ZM 1\*209L

12321389

Date Manufactured

Date Tested

28 May 2024

31 May 2024

| Test Description               | Result           | Unit  | Method      |
|--------------------------------|------------------|-------|-------------|
| Viscosity Kinematic 40°C       | 56,88            | mm2/s | ISO 3104    |
| Viscosity Kinematic 100°C      | 10,240           | mm2/s | ISO 3104    |
| Appearance                     | Clear and Bright | -     | VISUAL      |
| Density 15°C (by Densitometer) | 837,2            | kg/m3 | ISO 12185   |
| Viscosity, Brookfield -40°C    | 28200            | mPa.s | DIN 51398   |
| Pour Point                     | -57              | CEL   | ASTM D5950  |
| Foam.Chara.(Seq.II),Tendency   | 20               | ml    | ASTM D892   |
| Foam. Chara.(Seq.II),Stablity  | 0                | ml    | ASTM D892   |
| Water Content Oven (KF)        | 254              | mg/kg | DIN 51777   |
| Particle Cnt.(Microscope)Val.1 | 13               | ***** | DIN 51455   |
| Particle Cnt.(Microscope)Val.2 | 11               | ***** | DIN 51455   |
| Infra Red Finger Print Qual    | Pass             | -     | DIN 51451   |
| Peak Area Increase PAI for ZF  | -1               | ***** | ASTM D7214  |
| Calcium Content by ICP %M      | 0,0026           | %(m)  | DIN 51399-1 |
| Phosphorus Content by ICP %M   | 0,0188           | %(m)  | DIN 51399-1 |
| Chlorine Content by ICP MG/KG  | 76               | mg/kg | DIN 51399-1 |
| Sulphur Content By ICP         | 0,064            | %(m)  | DIN 51399-1 |
| Silicon Content MG KG By ICP   | 21               | mg/kg | DIN 51399-1 |

Date

Certified by

Preferred contact

03 Jun 2024

Eric Froboese

+ 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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