



Castrol Germany GmbH  
Neuhöfer Brückenstrasse 81  
DE - 21107 Hamburg

## Certificate of Analysis

Print Date : 05.07.2023

|               |                  |                                  |
|---------------|------------------|----------------------------------|
| Customer No : | Order/Item :     |                                  |
| Address :     | Delivery/Item :  |                                  |
|               | Product :        | Transmax Man Z LL 75W-80, 20L B5 |
|               | Product No :     | 15D70A                           |
|               | Batch/Mfg :      | 0001757842/25.05.2023            |
|               | Inspection Lot : | 040000661395                     |

## Result

| Characteristic                     | Method           | Min               | Target Val     | Max   | Value          | Unit               |
|------------------------------------|------------------|-------------------|----------------|-------|----------------|--------------------|
| Viscosity, Kinematic 100C          | ASTM D445        | 8.800             | 9.000          | 9.500 | 9,059          | mm <sup>2</sup> /s |
| Viscosity, Kinematic 40C           | ASTM D445        | 52.50             | 53.90          | 55.50 | 53,89          | mm <sup>2</sup> /s |
| Phosphorus                         | DIN 51363/2      | 0.050             | 0.055          | 0.062 | 0.057          | % wt               |
| Sulphur, % wt                      | EN ISO 14596     | 0.212             | 0.230          | 0.249 | 0.221          | % wt               |
| Viscosity, Brookfield @ -40C (75W) | DIN 51398        |                   | 19000          | 25000 | 19700          | mPa.s (cP)         |
| Appearance                         | Visual           | clear & bright    | clear & bright |       | clear & bright |                    |
| Density @ 15°C, kg/m <sup>3</sup>  | DIN EN ISO 12185 | 845.5             | 847.0          | 849.0 | 845.8          | kg/m <sup>3</sup>  |
| Infra Red (IR)                     | DIN 51451        | pass to reference | pass           |       | pass           | -                  |

We certify that the above product has been produced in conformity with the BP specifications in place for this product  
This report has been generated automatically and does not require a signature

**Witali Geibel**  
Team Leader Quality Control  
Neuhof Plant