

"Gazpromneft-lubricants" Office 40, 14/3 Krzhizhanovskogo Street, Moscow, Russia, 117218



CERTIFICATE OF ANALYSIS № 4650

Hydraulic Oil MGE-46V,
TY 38.001347-00 OKPD2 19.20.29.120

The declaration of conformity
EEU № RU Д-РУ.НХ10.В.02353 by 27.07.2020



Management system of the company is certified for compliance the standards
ISO 9001:2008, ISO 14001:2004, OHSAS 1800:2007.

Reservoir: E-6
Batch № 1720034201
Date of produced: 02.09.17

Package: drum 205l
Date of packing: 16.09.17

Quantity, t: 20.340
Quantity, p: 113
Date of produced/analyses: 16.09.17

| Characteristics | Test Method | TR of the Customs Union limit | STO limit | Analysis result * |
|---|------------------------|-------------------------------|--------------------------|--------------------|
| Kinematic Viscosity, mm ² /s at 100 °C, min at 40 °C, in the range at 0 °C, max | GOST 33 | - - - | 6,0 41,4-50,6 1000 | 6,7 46,5 600 |
| Viscosity Index, min | GOST 25371 | - | 90 | 90 |
| Total Acid Number, mg KOH/g.wt % | GOST 11362 | - | 0,7-1,5 | 1,0 |
| Pour Point, °C, max | GOST 20287 | - | minus 32 | minus 32 |
| Flash Point, COC, °C, min | ASTM D 92 | 135 | 190 | 225 |
| Mechanical impurities, wt % | GOST 6370 | 0,03 | absence | absence |
| Water content, wt %, max | GOST 2477 | - | absence | absence |
| Tribological characteristics, Four-Ball Method Wear Scar Diameter, axial load 196,2 N (20 kgf), 1 hour, mm, max | GOST 9490 | - | 0,45 | 0,31 |
| Oxidation stability: sludge after oxidation, wt%, max Acid Number Change (oxydized oil vs. fresh oil), mg KOH/g, max | GOST 981 GOST 11362 | - - | 0,05 0,15 | 0,01 0,06 |
| Copper Corrosion (grade M2), 3 hours at 100°C according to GOST 859, max | GOST 2917 | - | 1a | 1a |
| Rubber swelling (grade УИМ-1), 72 hours at 80°C in oil, wt%, max | GOST 9.030 | - | 4,0 | 0,9 |
| Density at 15 °C, kg/m ³ , max | ASTM D 4052 | - | 894,0 | 879 |
| Self-ignition point, °C, min** | GOST 12.1.044 | 165 | - | 325 |

* - according to the COA of manufacturer 30 date 04.09.2017

Conclusion: Hydraulic Oil MGE-46V he product meets the requirements of Technical regulations of the Customs Union and GOST 20799-88, revision 1-5.

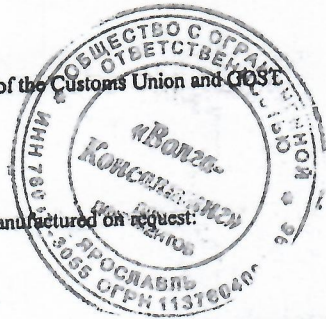
Shelf life 5 years from date of manufacture.

Storage conditions - under GOST 1510-84.

Manufacturer: JSC "Sianeft-YANOS" 130b, Moskovsky prospect, Yaroslavl, 150023, Russia. Manufactured on request.
"Gazpromneft-lubricants", Ltd.

Representative by proxy (proxy № 01-113/0-А) MC Gyskova N.A.

Date of issuance: 17.09.2017



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