

"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 2051
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, °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 УНМ-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 "Slavneft-YANOS" 130b, Moskovsky prospect, Yaroslavl, 150023, Russia. Manufactured on request.
"Gazpromneft-lubricants", Ltd.

Representative by proxy (proxy № 01-113/то-д) MC Gyskova N.A.

Date of issuance: 17.09.2017



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