

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



**CERTIFICATE OF ANALYSIS № 18002664-OZSM**

Gear oil Gazpromneft GL-5 80W-90  
STO 84035624-068-2012 revision 1-3 OKPD 2 code  
19.20.29.150

Declaration of Conformity  
reg. number: EA ЭС № RU Д-РУ.НХ20.В.00589 on 16.07.2020  
Company management is certified for compliance with the standards  
ISO 9001: 2015, ISO 14001: 2015, OHSAS 18001: 2007

Tank: E-4 Level, cm: 214 Quantity, t: 123,2  
Batch: 25536 Package: 527 drums of 205.0 L 96,9680 t

Date of produced: 26.03.2018

Date of sampling: 26.03.2018

Characteristics	Test Method	TR of the CU limit	ND limit	Analysis result
Kinematic viscosity at 100 °C, mm <sup>2</sup> /s, in range	GOST 33	-	13,50 - 15,50	13,94
Brookfield viscosity at minus 26 °C, mPa·s, max	ASTM D 2983	-	150000	58000
Flash Point, COC, °C, min	GOST 4333	135	180	232
Pour Point, °C, max	GOST 20287	-	Minus 30	Minus 40
Mechanical impurities, wt %, max	GOST 6370	0,03	Absence	Absence
Water content, wt %, max	GOST 2477	-	Traces	Traces
Phosphorus content, wt %, in range	ASTM D 6481	-	0,03 - 0,05	0,05
Foaming tendency, ml, max	ASTM D 892	-	50	10
- Seq. I			50	30
- Seq. II			50	10
Tribological characteristics, Four-Ball Method	GOST 9490	-	559,0	632,6
load-wear index, N, min			2685,0	5508,0
weld point, N, min			Not standardized, the definition necessarily	0,4
wear scar diameter, 392 N, 60 minutes, mm			Not standardized, the definition necessarily	0,5
wear scar diameter, 588 N, 50 minutes, mm			Not standardized, the definition necessarily	879,6
Density at 20 °C, kg/m <sup>3</sup>	ASTM D 4052	-	Not standardized, the definition necessarily	882,8
Density at 15 °C, kg/m <sup>3</sup>	ASTM D 4052	-	Not standardized, the definition necessarily	
Appearance	Visual	-	Bright and clear liquid without foreign substances	Bright and clear liquid without foreign substances
Self-ignition point, °C, min	GOST 12 1-044	165	165	348

Conclusion: Gear oil Gazpromneft GL-5 80W-90 The product meets the requirements of Technical regulations of the Customs Union 030/2012 and STO 84035624-068-2012, revision: 1-3

Shelf life - 5 years from date of manufacture

Sampling conditions - GOST 2517-2012

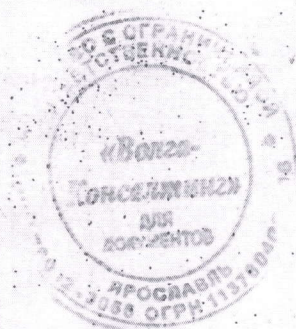
Storage conditions - GOST 1510-84

Manufacturer: "Gazpromneft-lubricants", LTD, Russia, 644040, Omsk, avenue Gubkina, 1.

Testing Laboratory: Laboratory of oil and petrochemistry, accreditation certificate № RA.RU.518884 from 18.11.2016. 1, Gubkina avenue, Omsk, 644040, Russia

Head of shift Laboratory: Gorchakova S.V.

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КОПИЯ ВЕРНА

