

CERTIFICATE OF ANALYSIS № 72

Litol-24 Lubricating Grease

GOST 21150-87



Batch № 72

Manufacturing date: 23.03.16

Batch net weight: 4,25 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Appearance	Uniform grease with color between light-yellow and dark-brown	Uniform grease with green color**	P. 3.2 GOST 21150
2	Dropping point, °C, not lower than	185	190	GOST 6793
3	Penetration at 25°C, 0,1 mm	220 - 250	243	GOST 5346, method V
4*	Viscosity at -20°C and velocity gradient of 10 s-1, Pa*s, not more than	650	610	GOST 7163
5*	Viscosity at 0°C and velocity gradient of 10 s-1, Pa*s, not more than	280	210	GOST 7163
6*	Viscosity at 50°C and velocity gradient of 100 s-1, Pa*s, not less than	8,0	10,8	GOST 7163
7	Shear stability at 20°C, Pa,	500 - 1 000	800	GOST 7143, method B
8	Shear stability at 80°C, Pa, not lower than	200	230	GOST 7143, method B
9	Colloid stability, %, of separated oil, not more than	12,0	10,8	GOST 7142
10	Metal corrosion	Pass	Pass	GOST 9.080, and P.3.3 of GOST 21150
11	Vaporability at 120 °C, %, not more than	6,0	1,0	GOST 9566
12	Free alkali content NaOH, %, not more than	0,1	0,07	GOST 6707
13	Water content	nil	nill	GOST 2477, and P.3.4 of GOST 21150
14	Mechanical impurities content, %, not more than	0,05	0,01	GOST 6479, and P.3.5 of GOST 21150
15	Four ball EP test machine (20±5°C): scuff index, N, not less than	280	330	GOST 9490
16	Four ball EP test machine (20±5°C): welding load, N, not less than	1 410	1 600	GOST 9490
17	Four ball EP test machine (20±5°C): critical load, N, not less than	630	790	GOST 9490
18*	Elastomer of grade 26-44, %: volume change	±8	-1,8	P.3.6 GOST 21150
19*	Elastomer of grade 26-44, %: hardness change	±8	-3,4	P.3.6 GOST 21150

* Certificate of analysis №024/15 dtd 11.03.15

** As agreed by the parties

Manufactured by KSM PROTEC LLC

Conclusion: Litol-24 lubricating grease sample satisfies the requirement of GOST 21150-87 standard based on characteristics analyzed.

Laboratory technician


