

CERTIFICATE OF ANALYSIS № 93

TEMOL №158 Lubricating Grease

TU U 19.2-37838186-010:2012 zm.1,2

Batch № 93

Manufacturing date 08.04.24 Batch net weight 0,3 т

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Appearance	Homogeneous blue ointment	Homogeneous blue ointment	GSTU 38.001
2	Penetration at 25°C, 0.1 mm.in range	260 - 340	285	GOST 53#6 method V
3	Dropping point, °C, not lower than	132	190	GOST 6793
4	Shear stability at 50°C, Pa, not less than	150	216	GOST 7143 method B
5	Colloid stability, %, of separated oil, not more than	20	11,12	GOST 7142
6	Water content	nil	nil	GOST 2477
7	Free alkali content NaOH, %, not more than	0.2	0.03	GOST 6707
8	Viscosity at 0°C and velocity gradient of 10 s ⁻¹ , Pa*s, not more than	400	350	GOST 7163
9	Metal corrosion	Pass	Pass	GOST 9.080
10	Four ball EP test machine (20±5°C): welding load, N, not less than	1 960	2 067	GOST 9490
11	Four ball EP test machine (20±5°C): critical load, N, not less than	672	735	GOST 9490
12	Four ball EP test machine (20±5°C): scuff index, not less than	390	412	GOST 9490
13	Protective property	Pass	Pass	GOST 9.054 method 1

Manufactured by KSM PROTEC LLC, UKRAINE

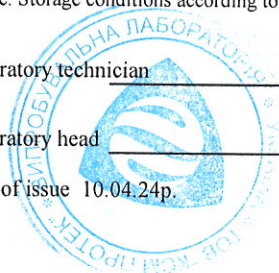
Conclusion: TEMOL №158 Lubricating Grease sample satisfies the requirement of TU U 19.2-37838186-010:2012 zm.1,2 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture. Storage conditions according to DSTU 4454.

Laboratory technician

Laboratory head

Date of issue 10.04.24p.



[Handwritten signatures in blue ink]

CERTIFICATE OF ANALYSIS № 94

Graphite Grease

GOST 3333-80 zm. 1,2,3

Batch № 94

Manufacturing date 10.04.24

Batch net weight: 2,581 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Appearance	Uniform grease with color between dark-brown and black	Uniform grease with black color	P.4.2 of GOST 3333-80
2	Dropping point, °C, not lower than	77	107	GOST 6793
3	Penetration at 25°C, 0,1 mm, not lower than	250	270	GOST 5346, method B
4	Steel plate corrosion, steel grades 40, 45 and 50, according to GOST 1050-74	Pass	Pass	GOST 9.080
5	Colloid stability, %, of separated oil, not more than	5,0	4,97	GOST 7142
6	Water content, %, not more than	3,0	1,5	GOST 2477
7	Shear stability at 50°C, Pa, not lower than	100	135	GOST 7143 method B
8	Viscosity at 0°C and velocity gradient of 10 s-1, Pa*s, not more than	100	88	GOST 7163

Manufactured by KSM PROTEC LLC

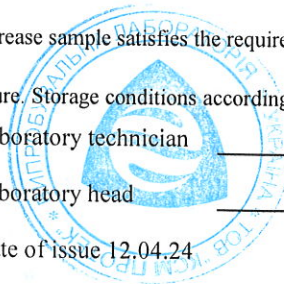
Conclusion: Graphite Grease lubricating grease sample satisfies the requirement of GOST 3333-80 zm. 1,2,3 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture. Storage conditions according to DSTU 4454.

Laboratory technician

Laboratory head

Date of issue 12.04.24



[Handwritten signatures]

CERTIFICATE OF ANALYSIS №97

Litol-24 Lubricating Grease

DSTU GOST 21150:2019

Batch № 97

Manufacturing date: 12.04.24

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 brown	Homogeneous ointment of light brown color	P. 7.2
2	Dropping point, °C, not lower than	185	207	GOST 6793
3	Penetration at 25°C, 0,1 mm, in range	220 - 250	245	GOST 5346, method V
4	Viscosity at -20°C and velocity gradient of 10 s-1, Pa*s (P), not more than	650 (6500)	612 (6120)	GOST 7163
5	Viscosity at 0°C and velocity gradient of 10 s-1, Pa*s (P), not more than	280 (2800)	214 (2140)	GOST 7163
6	Viscosity at 50°C and velocity gradient of 100 s-1, Pa*s (P), not less than	8,0 (80)	10,9 (109)	GOST 7163
7	Shear stability at 20°C, Pa (gs/cm ²), in range	500 (5,0) - 1 000 (10,0)	686 (6,86)	GOST 7143, method B
8	Shear stability at 80°C, Pa (gs/cm ²), not lower than	200 (2,0)	255 (2,55)	GOST 7143, method B
9	Colloid stability, %, of separated oil, not more than	12,0	7,2	GOST 7142
10	Metal corrosion	Pass	Pass	GOST 9.080 and P. 7.3
11	Vaporability at 120 °C, %, not more than	6,0	1,0	GOST 9566
12	Free alkali content NaOH, %, not more than	0,1	0,08	GOST 6707
13	Water content	Absent	Absent	GOST 2477 and P. 7.4
14	Mechanical impurities content, %, not more than	0,03	Absent	GOST 6479 and P. 7.5
15	Four ball EP test machine (20±5°C): scuff index, N (kgs), not less than	274 (28)	323 (33)	GOST 9490
16	Four ball EP test machine (20±5°C): welding load, N (kgs), not less than	1381 (141)	1568 (160)	GOST 9490
17	Four ball EP test machine (20±5°C): critical load, N (kgs), not less than	617 (63)	735 (75)	GOST 9490
18	Elastomer of grade 26-44, %: volume change	±8	-1,8	GOST 9.030 and P. 7.6
19	Elastomer of grade 26-44, %: hardness change	±8	-3,4	GOST 9.030 and P. 7.6

Manufactured by KSM PROTEC LLC

Conclusion: Litol-24 Lubricating Grease lubricating grease sample satisfies the requirement of DSTU GOST 21150:2019 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture. Storage conditions according to DSTU 4454.

Laboratory technician _____

Laboratory head _____

Date of issue: 15.04.24



CERTIFICATE OF ANALYSIS № 95

PROTEC 1-13 Lubricating Grease

TU U 19.2-37838186-006:2012 zm. 1,2

Batch № 95

Manufacturing date 10.04.24 Batch net weight 2,787 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Appearance	Homogeneous ointment from light to dark brown color	Homogeneous yellow ointment	GOST 38.001
2	Penetration at 25°C, 0.1 mm, within	200 - 250	235	GOST 5346 method V
3	Dropping point, °C, not lower than	120	151	GOST 6793
4	Shear stability at 80°C, Pa, not lower than	150	172	GOST 7143, method B
5	Colloid stability, % of separated oil, not more than	20	12,63	GOST 7142
6	Water content	0,75	nil	DSTU GOST 2477
7	Free alkali content NaOH, %, not more than	0,2	0,2	GOST 6707
8	Mechanical impurities content, %, not more than	nil	nil	GOST 6479
9	Viscosity at 0°C and velocity gradient of 10 s-1, Pa*s, not more than	500	410	GOST 7163
10	Metal corrosion	Pass	Pass	GOST 9.080
11	Protective property	Pass	Pass	GOST 9.054 and p. 7.4

Manufactured by KSM PROTEC LLC, UKRAINE

Conclusion: PROTEC 1-13 Lubricating Grease sample satisfies the requirement of TU U 19.2-37838186-006:2012 zm. 1,2 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture. Storage conditions according to DSTU 4454

Laboratory technician _____

Laboratory head _____

Date of issue 12.04.24p.



Transformer oil T-1500

GOST 982-80 zm.1-3



Batch № 267

Manufacturing date 05.04.23 Batch net weigh 35t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 50°C, mm ² /s, not more than	8	5,92	DSTU GOST 33
2	Kinematic viscosity at - 30°C, mm ² /s, not more than	1 100	980	DSTU GOST 33
3	Acid number, mg KOH /g, not more than	0,01	0,005	GOST 5985
4	Flash point, °C	135	139	GOST 6356
5	The water-soluble acids and alkalis	No	No	GOST 6307
6	Mechanical impurities	No	No	GOST 6370
7	Pour point, °C, not more than	-45	-58	GOST 20287
8	Sodium sample, optical density, not more than	0,4	0,4	GOST 19296 snd p. 5.2
9	Transparency at 5°C	Transparent	Transparent	GOST 982 and p. 5.3
10	Color units, not more than	1,5	0,5	GOST 20284
11	The stability, performance after oxidation, not more than: low molecular weight volatile acids, mg KOH /g on 1g of oil	0,04	0,032	GOST 981 and p. 5.4
12	The stability, performance after oxidation, not more than: precipitate, %	No	No	GOST 981 and p. 5.4
13	The stability, performance after oxidation, not more than: acid number, mg KOH /g on 1g of oil	0,2	0,15	GOST 981 and p. 5.4
14	Dielectric loss tangent % at 90°C, not more than	0,5	0,14	GOST 6581 and p. 5.5
15	Density at 20°C, kg /m ³ , not more than	885	876	GOST 3900

Manufactured by KSM PROTEC LLC, Ukraine

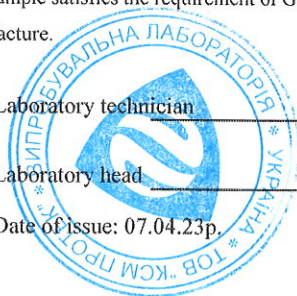
Conclusion: Transformer oil T-1500 sample satisfies the requirement of GOST 982-80 zm.1-3 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture.

Laboratory technician

Laboratory head

Date of issue: 07.04.23p.





PRISTA® ULTRA

PASSENGER CAR ENGINE OILS

Description and Application

Prista® Ultra multigrade engine oils are fully synthetic products blended according to the latest advanced lubricant technology and designated for lubrication of today's engines in passenger cars, light trucks and vans.

Prista® Ultra multigrade engine oils are recommended for high performance gasoline and heavy-duty diesel engines of passenger cars operated in a wide temperature range and variable conditions. They are especially fit for use in gasoline and diesel (including Common Rail) engines, naturally aspirated or turbocharged, direct injection, multiple valve system, etc., whose manufacturers recommend ACEA A3/B4 and API SN, SM, SL or CF performance level lubricants.

Benefits

- Provides advanced protection against wear and corrosion
- Keep engine clean
- Ensure reliable protection in a wide temperature range
- Provides low temperature protection even with biodiesel fuels
- Designed to help reduce harmful emissions in the exhaust gases

Specifications

	SAE 5W-30	SAE 5W-40
ACEA	A3/B4	
API	SL/CF	SN/SM/CF
MB	229.3, 229.5	229.3, 229.5
VW	502 00 / 505 00	
Opel	GM-LL-A/B-025	
RN	0700/0710	
Porsche	-	A40
JASO	-	MA-2

Typical Characteristics

Parameter	Test Method	Typical Value	
		SAE 5W-30	SAE 5W-40
Density at 20°C, g/ml	EN ISO 3675	0.852	0.856
Kinematic Viscosity at 100°C, mm ² /s	EN ISO 3104	10.9	14.4
Kinematic Viscosity at 40°C, mm ² /s	EN ISO 3104	64.0	87.0
Viscosity Index	ISO 2909	163	172
Flash point COC, °C	EN ISO 2592	232	234
Pour point, °C	ISO 3016	-39	-39
TBN (HClO ₄), mg KOH/g	ASTM D 2896	10.0	
Sulfated Ash, %	EN ISO 3987	1.2	

Important note: typical data values do not constitute a specification but are an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved.

Health, Safety and Handling

Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application.

For more information about product MSDS, terms and conditions for storage and shelf life please visit: www.prista-oil.com

CERTIFICATE OF ANALYSIS № 382

Hydraulic oil PROTEC GIDRO R

TU U 19.2-37838186-005:2012 zm.1,2

Batch № 382

Manufacturing date 15.04.24 Batch net weight 0,9 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 40oC, mm2/s , in range	17 - 22	19,22	DSTU GOST 33 or ASTM D445
2	Kinematic viscosity at 100oC, mm2/s , not more than	5	3,89	DSTU GOST 33 or ASTM D445
3	Kinematic viscosity at - 20oC, mm2/s , not more than	1 800	1 765	DSTU GOST 33 or ASTM D445
4	Flash point (COC), °C, not lower than	165	176	DSTU GOST 4333 or ASTM D92
5	Pour point, °C, not more than	-45	-46	GOST 20287 or ASTM D97
6	Ash content, %, not less than	0,6	0,73	GOST 1461 or ASTM D482
7	Density at 20 °C, kg/m3, not more than	890	881	GOST 3900 or ASTM D1298
8	Mechanical impurities content, %, not more than	nil	nil	DSTU GOST 6370 or ASTM D2273
9	Water content, %, not more than	nil	nil	DSTU GOST 2477 or ASTM D95
10	Content of water-soluble acids and alkalis	Alkaline reaction is allowed	Alkaline reaction	GOST 6307
11	Mass fraction of zinc, % not less than	0,08	0,09	GOST 13538 or ASTM D4927
12	Mass fraction of calcium, %, not less than	0,16	0,174	GOST 13538 or ASTM D4927
13	Corrosion test on steel plates	Pass	Pass	GOST 2917 and p. 7.4
14	The stability against oxidation: mass fraction of sludge after oxidation, %, not more than	0,1	0,067	GOST 981 or DSTU GOST 18136 (GOST 18136)
15	Action on rubber of the UIM-1 brand (72 hours, 130 C), change of weight, not more than	5	3	GOST 9.030
16	Sequence I, not more than	150/0	0/0	DSTU 8420 or ASTM D892
17	Sequence II, not more than	70/0	10/0	DSTU 8420 or ASTM D892
18	Sequence III, not more than	150/0	0/0	DSTU 8420 or ASTM D892
19	Four ball Wear test machine (20±5°C): scar (Dz) (196N), mm, not more than	0,45	0,31	GOST 9490 or ASTM D2783
20	Colour on colorimeter , not more than	3,5	1,5	GOST 20284 or ASTM D1500

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Hydraulic oil PROTEC GIDRO R sample satisfies the requirement of TU U 19.2-37838186-005:2012, zm..1,2 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture. Storage conditions according to DSTU 4454.

Laboratory technician _____

Laboratory head _____

Date of issue 17.04.24p.



CERTIFICATE OF ANALYSIS № 418

OIL PROTEC IG-20

TU U 19.2-37838186-005:2012 zm.1,2



Batch № 418

Manufacturing date 03.08.22

Batch net weight: 18 l

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 40°C, cSt, in range	25-35	29,11	DSTU GOST 33 or ASTM D445
2	Total acid number, mg KOH per 1 g, not more than	0,05	0,011	GOST 11362 and P.7.6
3	Flash point, °C, not lower than	180	204	DSTU GOST 4333 or ASTM D92
4	Pour point, °C, not more than	-10	-10	GOST 20287 method B or ASTM D97
5	Mechanical impurities content, %, not more than	0,015	0,008	GOST 6370 or ASTM D2273
6	Water content, %, not more than	0,03	nil	GOST 2477 or ASTM D95
7	Density at 20 °C, kg/m ³ , not more than	910	870	GOST 3900 or ASTM D1298
8	Oxidation stability: acid number, mg KOH/l, not more than	0,3	0,23	DSTU GOST 18136 (GOST 18136)
9	Oxidation stability: increase in resins, %, not more than	3	1,75	DSTU GOST 18136 (GOST 18136)
10	Sulfur weight, %, not more than	1,3	0,36	GOST 1437 or ASTM D4927
11	Colour on colorimeter, not more than	4,0	1,5	GOST 20284 or ASTM D1500

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Oil PROTEC IG-20 sample satisfies the requirement of TU U 19.2-37838186-005:2012 zm.1,2 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture.



laboratory technician

laboratory head



CERTIFICATE OF ANALYSIS № 926

Oil PROTEC IG-40

TU U 19.2-37838186-005:2012 zm.1,2



Batch № 926

Manufacturing date: 28.08.21

Batch net weight: 18 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 40oC, cSt, in range	51-75	62,24	DSTU GOST 33 or ASTM D445
2	Total acid number, mg KOH per 1 g, not more than	0,1	0,0	GOST 11362 and P.7.6
3	Flash point, °C, not lower than	200	239	DSTU GOST 4333 or ASTM D92
4	Pour point, °C, not more than	-10	-15	GOST 20287 method B or ASTM D97
5	Mechanical impurities content, %, not more than	0,015	nil	GOST 6370 or ASTM D2273
6	Water content, %, not more than	0,03	0,03	GOST 2477 or ASTM D95
7	Density at 20 °C, kg/m3, not more than	910	892	GOST 3900 or ASTM D1298
8	Oxidation stability: acid number, mr KOH/r, not more than	0,4	0,29	DSTU GOST 18136 (GOST 18136)
9	Oxidation stability: increase in resins, %, not more than	3	1	DSTU GOST 18136 (GOST 18136)
10	Sulfur weight, %, not more than	1,3	1,23	GOST 1437 or ASTM D4927
11	Colour on colorimeter, not more than	4,0	2,0	GOST 20284 or ASTM D1500

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Oil PROTEC IG-40 sample satisfies the requirement of TU U 19.2-37838186-005:2012 zm.1,2 standard based on characteristics analyzed.

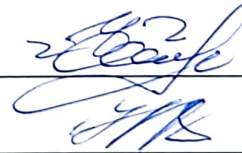
Shelf life - 5 years from date of manufacture



Laboratory technician

Laboratory head

Date of issue: 30.08.21



CERTIFICATE OF ANALYSIS № 330

Oil TEMOL GARDEN TECH 2T

TU U 19.2-37838186-029:2023 zm.1

Batch № 330

JASO FD/FC

ISO-L-EGD/ISO-L-EGC

Manufacturing date: 03.04.25

Batch net weight: 2,358 t

API TC

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 100oC, cSt, in range	8-13	9,43	DSTU GOST 33 or ASTM D445
2	Viscosity Index, not lower than	100	112	DSTU GOST 25371 or ASTM D2270
3	Total base number, mg KOH per 1 g, not lower than	0,8	1,07	DSTU 5094 or ASTM D2896 or DSTU ISO 3771
4	Sulfated ash, %, not more than	0,2	0,1	DSTU GOST 12417 or ASTM D874
5	Flash point (COC), °C, not lower than	125	216	DSTU GOST 4333 or ASTM D92
6	Pour point, °C, not more than	-20	-27	GOST 20287 method B or ASTM D97
7	Mechanical impurities content, %, not more than	nil	nil	DSTU GOST 6370
8	Water content, %, not more than	nil	nil	DSTU GOST 2477 or ASTM D95
9	Density at 20 °C, kg/m3, not more than	910	866	GOST 3900 or ASTM D1298
10	Corrosion test	Pass	Pass	GOST 2917 or ASTM D130

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Oil TEMOL GARDEN TECH 2T sample satisfies the requirement of TU U 19.2-37838186-029:2023 zm.1 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture.

Laboratory technician _____

Laboratory head _____

Date of issue: 04.04.25

