

CERTIFICATE OF ANALYSIS № 260

Motor oil PROTEC MD+ 15W-40

TU U 19.2-37838186-002:2012 zm.1-3

Batch № 260	API CI-4/SL	MB 228.3, Cummins CES 20078
Manufacturing date: 08.04.24	Batch net weight: 2,55 t	ACEA E7, A3/B4
	Caterpillar ECF-1a	Renault RLD-2, Mack EO-N

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 100oC, cSt, in range	12,5-16,3	14,97	DSTU GOST 33 or ASTM D445
2	Viscosity Index, not lower than	125	142	DSTU GOST 25371 or ASTM D2270
3	Total base number, mg KOH per 1 g, not lower than	9,0	10,27	DSTU 5094 or p.7.4 or ISO 3771
4	Sulfated ash, %, not lower than	1,45	1,42	DSTU GOST 12417 or ASTM D874
5	Flash point (COC), °C, not lower than	205	239	DSTU GOST 4333 or ASTM D92
6	Pour point, °C, not more than	-28	-30	GOST 20287 method B or ASTM D97
7	Density at 20 °C, kg/m3, not more than	910	868	GOST 3900 or ASTM D1298
8	Mechanical impurities content, %, not more than	nil	nil	GOST 6370 or ASTM D2273
9	Water content, %, not more than	0,03	nil	GOST 2477 or ASTM D95
10	Active elements content, Ca+Mg (counted by Ca) %, not lower than	0,3	0,34	GOST 13538 or ASTM D6443
11	Zinc weight, %, not lower than	0,09	0,14	GOST 13538 or ASTM D6443
12	Colour on colorimeter (15:85), not more than	4,0	1,0	GOST 20284 or ASTM D1500
13	Dynamic viscosity at -20oC, mP*s, not more than	7 000	5 300	GOST 1929 or p.7.5 or ASTM D5293
14	Corrosion on plumbum plates (DK-NAMI), g/m2, not more than	Pass	Pass	GOST 20502 method A,v.II
15	Stabilization by inductive period of sedimentation (IPS), 50 hours	Pass	Pass	GOST 11063

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Motor oil PROTEC MD+ 15W-40 sample satisfies the requirement of TU U 19.2-37838186-002:2012 zm.1-3 standard based on characteristics analyzed.

Laboratory technician _____

Laboratory head _____

Date of issue: 09.04.24



CERTIFICATE OF ANALYSIS № 705

Motor oil M-10G2K

GOST 8581-78 zm.1-10

Batch № 705

Manufacturing date: 26.09.24 Batch net weight: 12 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 100oC, cSt, in range	10,5-11,5	10,65	DSTU GOST 33
2	Viscosity Index, not lower than	85	132	DSTU GOST 25371
3	Total base number, mg KOH per 1 g, not lower than	6	6,42	GOST 11362
4	Sulfated ash, %, not lower than	1,15	0,9	GOST 12417
5	Flash point (COC), °C, not lower than	220	222	DSTU GOST 4333
6	Pour point, °C, not more than	-18	-25	GOST 20287 method B
7	Density at 20 °C, kg/m3, not more than	900	874	GOST 3900
8	Mechanical impurities content, %, not more than	0,015	0,011	GOST 6370
9	Water content, %, not more than	0,03	nil	GOST 2477
10	Calcium weight, %, not lower than	0,19	0,245	GOST 13538
11	Zinc weight, %, not lower than	0,05	0,054	GOST 13538
12	Phosphorus weight, %, not lower than	0,05	0,05	GOST 9827
13	Purity mg per 100 g of oil, not more than	500	380	GOST 12275
14	The power to establish PZV point, not more than	0,5	0,5	GOST 5726
11	Colour on colorimeter (15:85), not more than	3,0	1,5	GOST 20284
12	Corrosion on plumbum plates (DK-NAMI), g/m2, not more than	nil	nil	GOST 20502
13	Stabilization by inductive period of sedimentation (IPS), 50 hours	Pass	Pass	GOST 11063

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Motor oil M-10G2K sample satisfies the requirement of GOST 8581-78 zm.1-10 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture.

Laboratory technicia _____

Laboratory head _____

Date of issue: 27.09.24



CERTIFICATE OF ANALYSIS № 532

Motor oil TEMOL Turbo Diesel (M-10DM)

TU U 23.2-30858281-007:2008 zm. 1,2,3,4

Batch №532

SAE 30

API CD

Manufacturing date: 21.05.22

Batch net weight: 18,5 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 100°C, cSt, in range	9,3-12,5	12,18	DSTU GOST 33 or ASTM D445
2	Viscosity Index, not lower than	90	94	DSTU GOST 25371 or ASTM D2270
3	Total base number, mg KOH per 1 g, not lower than	8,2	9,84	DSTU 5094 or ASTM D2896 or ISO 3771
4	Sulfated ash, %, not lower than	1,50	1,26	DSTU GOST 12417 or ASTM D874
5	Flash point (COC), °C, not lower than	220	242	DSTU GOST 4333 or ASTM D92
6	Pour point, °C, not more than	-18	-21	GOST 20287 method B or ASTM D97
7	Density at 20 °C, kg/m ³ , not more than	905	892	GOST 3900 or ASTM D1298
8	Mechanical impurities content, %, not more than	0,025	0,018	GOST 6370 or ASTM D2273
9	Water content, %, not more than	0,03	0,03	GOST 2477 or ASTM D95
10	Active elements content, Ca+Mg (counted by Ca) %, not lower than	0,12	0,32	GOST 13538 or ASTM D4927
11	Colour on colorimeter (15:85), not more than	3,5	2,0	GOST 20284 or ASTM D1500
12	Corrosion on plumbum plates (DK-NAMI), g/m ² , not more than	Pass	Pass	GOST 20502 method A, var. II
13	Stabilization by inductive period of sedimentation (IPS), 60 hours	Pass	Pass	GOST 11063

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Motor oil TEMOL Turbo Diesel (M-10DM) sample satisfies the requirement of TU U 23.2-30858281-007:2008 zm. 1,2,3,4

standard based on characteristics analyzed

Shelf life - 5 years from date of manufacture



Laboratory technician

Laboratory head

Date of issue: 22.05.22



CERTIFICATE OF ANALYSIS № 110

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Litol-24 Lubricating Grease

DSTU GOST 21150:2019

Batch № 110

Manufacturing date: 04.04.24

Batch net weight: 4,175 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Appearance	Uniform grease with color between light-yellow and brown	Uniform grease with light brown color*	P. 7.2
2	Dropping point, °C, not lower than	185	200	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	8,49	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	0,07	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

*As agreed by the parties

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 analysis.

Laboratory technician _____

Laboratory head _____

Date of issue: 05.04.24



Antifreeze TEMOL Tosol A-40

TU U 20.5-30858281-009:2016 zm.1,2

Batch № 155

Manufacturing date: 14.11.23 Batch net weight: 13,6 т

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Appearance	Uniform transparent liquid without mechanical impurities. Color must refer to sample's color	Uniform transparent liquid without mechanical impurities with blue color	p.7.4
2	Density at 20 °C, kg/m3, not lower than	1,065	1,075	DSTU 7261
3	Temperature of crystallization start. °C, not more than	-38	-38	p.7.5
4	Fractional content: temperature of distillation start. °C, not lower than	100	105	p.7.6
5	Fractional content: mass fraction of liquid, that distills before 150 °C, %, not more than	55	46	p.7.6
6	Corrosive affect on metals, g/m ² *day, not more: copper, brass, steel, cast iron, aluminum	0,30	0,092	p.7.7
7	Corrosive affect on metals, g/m ² *day, not more: solder	0,50	0,106	p.7.7
8	Foam formation: foam's volume, cm ³ , not more than	50	40	p.7.8 or ASTM D1881
9	Foam formation: foam's stability, sec, not more than	5	2	p.7.8 or ASTM D1881
10	pH value at 20°C, in range	7,5 - 11	8,67	DSTU 2207.1 and. P.7.10 or ASTM D1287 and. P.7.10
11	Alkalinity, cm ³ , not lower	2,0	18,82	p.8.11 or ASTM D1121

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Antifreeze TEMOL Tosol A-40 sample satisfies the requirement of TU U 20.5-30858281-009:2016 zm.1,2 standard based on characteristics analyzed.

Laboratory technic _____

Laboratory head _____

Date of issue: 16.11.23



CERTIFICATE OF ANALYSIS № 53

TEMOL Antifreeze Luxe G12 Yellow

TU U 20.5-30858281-009:2016 zm.1,2

Batch № 53

Manufacturing date: 23.07.24 Batch net weight: 7,23 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Appearance	Homogeneous transparent liquid without mechanical impurities. Color should match the color of the sample-standard	Homogeneous transparent liquid without mechanical impurities yellow color	p.7.4
2	Density at 20 °C, kg/m3, not lower than	1,065	1,072	DSTU 7261
3	The temperature of the onset of crystallization, ° C, not higher	-38	-39	p.7.5
4	Boiling Point, °C, not less	104	106	p.7.13
5	Corrosive effect on metals, g / m2 per day, no more: - copper, brass, steel, cast iron, aluminum; - solder	0,15 0,3	0,088 0,095	p.7.7
6	Foaming, no more - the volume of foam, sm ³ - foam stability, s	150 5	20 3	p.7.8 or ASTM D 1881
7	Swelling rubber,%, not more	5	1	p.7.9
8	pH at 20 °C	7,5-11,0	8,12	DSTU 2201.1 or p.7.10 or ASTM D 1287
9	Alkalinity, cin3, not less	1,5	2,48	p.7.11

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: TEMOL Antifreeze Luxe G12 Yellow sample satisfies the requirement of TU U 20.5-30858281-009:2016 zm.1,2

Shelf life - 5 years from date of manufacture.

Laboratory technician _____

Laboratory head _____

Date of issue: 24.07.24



**Antigel auto "LONG LIFE" G11+ Ready to use OilTech (-35°C)
CERTIFICAT R.A.R nr 3855- ST- LBX-24**

Antigelul auto "LONG LIFE" G11+ Ready to use OilTech (-35°C) este un lichid de răcire pe bază de monoetilenglicol, produs cu un sistem de aditivi hibrid silicați - HOAT. Nu conține nitriți, amine, fosfați și este indicat pentru umplerea sistemelor de răcire a motoarelor cu ardere internă.

Lichidul de răcire "LONG LIFE" G11+ Ready to use OilTech (-35°C) este compatibil cu antigelul EVOX Extra (contine benzoat de sodiu, borax si ozoli).

Aplicatii:

Sisteme de răcire ale autoturismelor, camioanelor, mașinilor agricole și de construcții, și ale motoarelor cu gaz staționare. Produsul nu ataca piesele din fonta, otel, aluminiu, cupru și alama.

Nivel de performanta si clasificare:

NATO S-759; SAE J1034; MB-325.3; MAN-324 tip SNF; VW-TL774 A/B/C/D/F; SAAB- 6901599; Scania-0-891027GT EN; Volvo- 1286083; Opel-B 040 0068/B 040 0240; BMW- N60069.0; Ford-ESE-M97B18-C/ESE-M97B44-A/SSM-97B9102-A/WSE-M97B44-B/WSN; M97B18-D/WSS-; M97B44-D1/WSS-M97B44-D2; General Motors-GM 1825M/GM 6038M/GM 6043M/GM 6277 Dexcool/GM1899M; Cummins- 90T84/TMC RP329; Mack Tracks- 014 GS 17004; JI Case- MS 1710; John Deere-JDM H24A1/H24B1/H24C1/H5

Mod de utilizare**Se utilizeaza ca atare pentru o protectie de -35°C.**

Asigurati-va ca motorul este rece inainte de a deschide capacul radiatorului sau al vasului de expansiune; Pentru a nu deteriora proprietatile antigelului, goliti si curatati sistemul de racire inainte de introducere; Masurati la inceputul sezonului rece, punctul de congelare al antigelului din radiator.

Instructiuni de SSM-SU:

Produs foarte puțin inflamabil. Nu provoaca autoaprindere.

Dupa utilizare, spalati mainile cu apa si sapun. Nu mancati sau beti in timpul manipularii.

Nu utilizati ambalajele goale, in scopul depozitarii lichidelor de uz alimentar!

Nu contine nitrati, silicati, borati sau fosfati.

Nr. crt.	PROPRIETATI FIZICE SI DE PERFORMANTA	Antigel auto G 11+ READY TO USE (-35°) TYP
1	Aspect, culoare	Verde
2	pH	7,8
3	Greutate specifica 15,6°C,	1,08
4	Punct de fierbere,	108
5	Punct de congelare °C,	-35

7	Reziduu la calcinare, %	1,0
8	Pierderi de metal prin coroziune, mg/cm ² , . - cupru 99,9 - alama CuZn30 - otel OLC35 - aluminiu 99,5 - fonta Fe 200	+0,004 -0,012 -0,004 -0,045 -0,049

Termenul de garanție – 4 ani in depozitare.

Modalitate de ambalare: 1 kg, 5 kg, 20 kg, 215 kg, 1000 kg.

EASY WIPE WINTER LICHID DE SPALARE PARBRIZ

1. GENERALITATI

Solutie pentru curatarea parbrizelor si a altor suprafete de sticla, conferind acestora un aspect clar, stralucitor, fara urme si o mai buna vizibilitate in trafic, atat pe timp de zi cat si de noapte. Produsul contine agenti tensioactivi, parfum si colorant. Produsul nu contine alcool metilic.

2. DOMENIUL DE UTILIZARE

Indeparteaza eficient orice tip de murdarie care se depune in mod frecvent pe parbrizul si luneta autovehiculelor in sezonul rece (gheata, smog, urme de grasimi sau uleiuri, excremente de pasari, alte impuritati etc.). Produsul are eficienta sporita pentru utilizarea la o temperatura de pana la **-20°C**, avand putere mare de curatare la o singura pompa. Utilizarea Easy Wipe Winter scade coeficientul de frecare al stergatoarelor, prelungind durata medie de viata a acestora. Produsul poate fi utilizat si la spalarea manuala a oglinzilor retrovizoare, exteriorul geamurilor si lunetei autovehiculelor, emanand un parfum placut.

3. MOD DE UTILIZARE

Se foloseste ca atare, fara a mai fi diluat.

Produsul este utilizat la o temperatura de pana la -20°C.

4. CONDITII TEHNICE DE CALITATE-ST LBX 13

Nr. crt	CARACTERISTICI	METODA DE VERIFICARE	VALORI	
			prevazut	typ
1	Aspect	Vizual	Omogen, clar	Omogen, clar
2	Culoare	Vizual	Albastru	Albastru
3	Miros	Olfactiv	Caracteristic parfumat	Caracteristic parfumat
4	Masa volumica absoluta Kg/l	ISO 758	0,95 ± 0,02	0,95 ± 0,02
5	Valoarea pH	ISO 4316	7,5+/- 0,5	7,5
6	Punct de congelare, °C	STAS 39	-20	-20

Ambalare: bidoane de plastic de 4 l.

Termenul de garanție - 2 ani in depozitare.