

MOGUL OIL®
Extreme Energy 10W40, 15W40

INFORMATII TEHNICE

MOGUL OIL® Extreme Energy 10W40, 15W40

ACEA A 3/B4, API SL/CF. VW 501.01/505.00, MB 229.1

ULEIURI PENTRU MOTOARELE PE BENZINA SI DIESEL ALE AUTOTURISMELOR CU SAU FARA TURBOSULFLANTA

Descriere:

MOGUL OIL® Extreme Energy 10W40 si MOGUL OIL® Extreme Energy 15W40 sunt uleiuri de motor sintetice formulate din uleiuri de baza Grupa III si o tehnologie de aditivare moderna care le fac utilizabile in orice anotimp la autoturismele cu motoare pe benzina si Diesel , cu si fara alimentare turbo si racitor al aerului.

Utilizare:

MOGUL OIL® Extreme Energy 10W40 si MOGUL OIL® Extreme Energy 15W40 sunt concepute pentru autoturisme cu motoare pe benzina , Diesel cu sau fara turbosulflanta. Formularea le fac potrivite pentru intervale lungi de schimb al uleiului si cerinte mari impuse motoarelor, respectand cerintele de exploatare ale constructorilor de autovehicule si de motoare.

Clasificare, specificații:

ACEA A 3/B4, API SL/CF. VW 501.01/505.00, MB 229.1

Proprietăți caracteristice:

- rezistența excelentă la oxidare, ceea ce permite o viață mai lungă a uleiului (intervale de schimb extinse);
- protecție la coroziune foarte buna;
- excelenta protecție la uzură;
- reduce consumul de combustibil;
- curatenie excelenta a motorului;
- ungere la temperaturi joase si ridicate.

Caracteristici:

Parametri MOGUL OIL® Extreme Energy 10W40	Unitatea de masura	Valori tipice	Metoda de analiza
Densitate la 20 °C	g/m3	0.850	EN ISO 3675
Viscozitate cinematica la 100°C	cSt	12-16	SR EN ISO 3104
Indice de viscozitate		152	ISO 2909
Punct de inflamabilitate COC	°C	228	SR EN ISO 2592
Punct de curgere	°C	-35	ISO3016

Parametri MOGUL OIL® Extreme Energy 15W40	Unitatea de masura	Valori tipice	Metoda de analiza
Densitate la 20 °C	g/m3	0.890	EN ISO 3675
Viscozitate cinematica la 100°C	cSt	13-16	SR EN ISO 3104
Indice de viscozitate		145	ISO 2909
Punct de inflamabilitate COC	°C	205	SR EN ISO 2592
Punct de curgere	°C	-27	ISO3016

Ambalare: 20L si 200L.

MOGUL OIL®
Extreme Energy 10W40, 15W40

INFORMATII TEHNICE

Termen de garantie: 5 ani in depozitare.

DO NOT COPY

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: 21.05.21

Batch net weight: 18,5 l

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 100°C, cSt, in range	9,3-12,5	12,17	DSTU GOST 33 or ASTM D445
2	Viscosity Index, not lower than	90	95	DSTU GOST 25371 or ASTM D2270
3	Total base number, mg KOH per 1 g, not lower than	8,2	8,92	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	244	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/m3, 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	1,5	GOST 20284 or ASTM D1500
12	Corrosion on plumbum plates (DK-NAMI), g/m2, 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



[Handwritten signature]

CERTIFICATE OF ANALYSIS № 1008

Transmission Oil PROTEC Nigrol L

TU U 19.2-37838186-003:2012 zm.1



Batch № 1008

Manufacturing date: 22.09.21

Batch net weight: 2,61 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 100°C, cSt, in range	27,0 - 34,0	27,69	DSTU GOST 33 or ASTM D445
2	Flash point, °C, not lower than	180	210	DSTU GOST 4333 or ASTM D92
3	Pour point, °C, not more than	-5	-10	GOST 20287 method B or ASTM D97
4	Water content, %, not more than	1,0	0,4	GOST 2477 or ASTM D95
5	Density at 20 °C, kg/m ³ , not more than	970	870	GOST 3900 or ASTM D1298
6	Corrosion test during 3 hr at 100°C on steel and copper plates	pass	pass	GOST 2917 and p.7.4 or ASTM D130
7*	Rubber compatibility (volume change) for UIM-1, %, in range	+1,0 - +6,0	+4,0	GOST 9.030 and p.7.5

Manufactured by KSM PROTEC LLC

Conclusion: transmission oil PROTEC Nigrol L sample satisfies the requirement of TU U 19.2-37838186-003:2012 zm.1 standard based on characteristics analyzed.

Laboratory technician

Laboratory head

Date of issue: 22.09.21



[Handwritten signatures]

CERTIFICATE OF ANALYSIS № 534

Motor oil M-10G2K

GOST 8581-78 zm.1-10



Batch № 534

Manufacturing date: 13.07.23 Batch net weight: 15 t

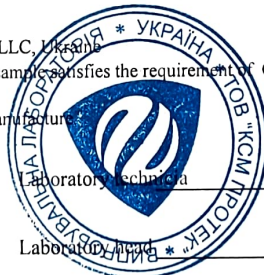
Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 100°C, cSt, in range	10,5-11,5	11,18	DSTU GOST 33
2	Viscosity Index, not lower than	85	135	DSTU GOST 25371
3	Total base number, mg KOH per 1 g, not lower than	6	6,65	GOST 11362
4	Sulfated ash, %, not lower than	1,15	0,9	GOST 12417
5	Flash point (COC), °C, not lower than	210	240	DSTU GOST 4333
6	Pour point, °C, not more than	-15	-23	GOST 20287 method B
7	Density at 20 °C, kg/m3, not more than	905	875	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	0,255	GOST 13538
11	Zinc weight, %, not lower than	0,05	0,065	GOST 13538
12	Phosphorus weight, %, not lower than	0,05	0,054	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	4,0	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 Head

Date of issue: 17.07.23

CERTIFICATE OF ANALYSIS № 577

Transmission oil TAD-17i

GOST 23652-79, zm. 1-8



Batch № 577

Manufacturing date: 19.10.22

Batch net weight: 15 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 40°C, cSt, not lower than	17,5	20,1	DSTU GOST 33
2	Viscosity Index, not lower than	100	118	DSTU GOST 25371
3	Total acid number, mg KOH per 1 g, not more than	2,0	1,38	GOST 11362 and P.5.9
4	Flash point, °C, not lower than	200	248	DSTU GOST 4333
5	Pour point, °C, not more than	-25	-27	GOST 20287 method B
6	Ash content, %, not more than	0,3	0,24	GOST 1461
7	Mechanical impurities content, %, not more than	nil	nil	GOST 6370
8	Water content, %, not more than	0,03	nil	GOST 2477
9	Density at 20 °C, kg/m ³ , not more than	907	885	GOST 3900
10	Corrosion test during 3 hr at 100°C on steel and copper plates, point, not more than	2c	2b	GOST 2917
11	Colour on colorimeter, not more than	5,0	1,5	GOST 20284
12	Sequence I, not more than	200/0	0/0	GOST 23652 p.5.5
13	Sequence II, not more than	100/0	10/0	GOST 23652 p.5.5
14	Sequence III, not more than	200/0	0/0	GOST 23652 p.5.5
15	Four ball EP test machine (20±5°C): scuff index, N, not less than	568,4 (58)	588 (60)	GOST 9490
16	Four ball EP test machine (20±5°C): welding load, N, not less than	3687 (376)	3687 (376)	GOST 9490
17	Four ball Wear test machine (20±5°C), 392N, scar mm, not more than	0,40	0,39	GOST 9490
18	Sulfur content, %, not more than	2,5	1,30	GOST 1431

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Transmission oil TAD-17i sample satisfies the requirement of GOST 23652, zm. 1-8 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture.

Laboratory technician

Laboratory head

Date of issue: 21.10.22



[Handwritten signatures]

MOGUL OIL® M 10G2K (M 30S2)

API CC/SD

ULEI MONOGRAD PENTRU MOTOR

Descriere:

MOGUL OIL® M 10G2K (M 30S2) este obtinut din uleiuri de baza parafinoase Grupa I, aditivate cu un pachet de aditivi multifunctionali.

MOGUL OIL® M 10G2K (M 30S2) este destinat ungerii motoarelor Diesel ale autocamioanelor, autobuzelor, masinilor agricole, utilajelor din constructii, sau la orice alt motor conform indicatiilor din cartea tehnica a motorului.

Uleiul monograd **MOGUL OIL® M 10G2K (M 30S2)** se utilizeaza sezonally, clasa de viscozitate fiind aleasa in concordanta cu temperatura mediului ambiant.

Clasificare, specificatii:

API CC/SD; SAE J 300-99; MIL-L-2104 B; M 30 Super 2

Proprietati caracteristice:

- proprietati antioxidante, anticorozive, antiuzura, detergent, antispumante;
- compartament bun la temperaturi ridicate.

Caracteristici:

Parametri	Unitatea de masura	Valori tipice	Metoda de analiza
Densitate la 20 °C	g/m ³	0.905	EN ISO 3675
Viscozitate cinematica la 100°C	cSt	10	SR EN ISO 3104
Indice de viscozitate		90	ISO 2909
Punct de inflamabilitate COC	°C	220	SR EN ISO 2592
Punct de curgere	°C	-20	ISO3016

Ambalare: 20L, 200L.

Termen de garantie: 5 ani in depozitare.

MOGUL OIL® Super Traffic 10W40

CI-4/SL;

ULEI PENTRU MOTOARE DIESEL SURAALIMENTATE

Descriere:

MOGUL OIL® Super Traffic 10W40 este fabricat din uleiuri pe baza minerale și sintetice de foarte bună calitate și un pachet de aditivi moderni cu conținut de inhibitori de coroziune, aditivi detergent-dispersanți.

Utilizare:

MOGUL OIL® Super Traffic 10W40 este destinat folosirii în motoarele diesel turbo-supraalimentate care funcționează în condiții severe, cu intervale prelungite între schimbările de ulei, în conformitate cu recomandările producătorului. Este adecvat pentru majoritatea motoarelor moderne echipate cu sisteme de poluare EGR (recircularea gazelor de evacuare) și SCR NO_x (sisteme de reducere catalitică selectivă a noxelor). Este recomandat pentru motoarele diesel de clasă superioară, care respectă normele de emisii Euro-3, 4, 5.

Clasificare, specificații:

ACEA E7/B4/A3 ACEA E5/E3 API CI-4/CH-4; VOLVO VDS-3; MAN M3275-1; MB 228.3; Scania LDF-2; Renault Truck RLD-2; Cummins CES 20076/77/78; MTU Type 2; MACK EO-N; DEUTZ DQC III-10; GLOBAL DHD-1; JASO DH-1.

Proprietăți caracteristice:

- protecție maximă a motorului împotriva uzurii, coroziunii și formării depunerilor la temperaturi ridicate;
- pornire ușoară la temperaturi joase;
- curățenia pistonului;
- economie de carburant.

Caracteristici:

Parametri	Unitatea de măsură	Valori tipice	Metoda de analiză
Densitate la 15 °C	g/m ³	0.875	EN ISO 3675
Viscozitate cinematică la 100°C	cSt	15	SR EN ISO 3104
Indice de viscozitate		155	ISO 2909
Punct de inflamabilitate COC	°C	225	SR EN ISO 2592
Punct de curgere	°C	-35	ISO 3016

Ambalare: 20L, 200L și 1000L.

Termen de garanție: 5 ani în depozitare.

MOGUL OIL® Super Traffic 15W40
CI-4/SL;
ULEI PENTRU MOTOARE DIESEL SUPRAALIMENTATE

Descriere:

MOGUL OIL® Super Traffic 15W40 este fabricat din uleiuri pe baza minerale și sintetice de foarte bună calitate și un pachet de aditivi moderni cu conținut de inhibitori de coroziune, aditivi detergent-dispersanți.

Utilizare:

MOGUL OIL® Super Traffic 15W40 este un ulei de motor de tip heavy duty special dezvoltat pentru utilizare în motoare diesel de ultima generație, conform cerințelor Euro I, II, III și IV (fără filtru DPF), inclusiv cu turbocompresor, care funcționează în condiții extrem de severe și cu un interval de schimb extins.

Clasificare, specificații:

ACEA E7/B4/A3 ACEA E5/E3 API CI-4/CH-4; VOLVO VDS-3; MAN M3275-1; MB 228.3; Scania LDF-2; Renault Truck RLD-2; Cummins CES 20076/77/78; MTU Type 2; MACK EO-N; DEUTZ DQC III-10; GLOBAL DHD-1; JASO DH-1.

Proprietăți caracteristice:

- protecție maximă a motorului împotriva uzurii, coroziunii și formării depunerilor la temperaturi ridicate;
- pornire ușoară la temperaturi joase;
- curățenia pistonului;
- economie de carburant.

Caracteristici:

Parametri	Unitatea de măsură	Valori tipice	Metoda de analiză
Densitate la 15 °C	g/m ³	0.888	EN ISO 3675
Viscozitate cinematică la 100°C	cSt	15	SR EN ISO 3104
Indice de viscozitate		135	ISO 2909
Punct de inflamabilitate COC	°C	231	SR EN ISO 2592
Punct de curgere	°C	-30	ISO 3016

Ambalare: 20L, 200L și 1000L.

Termen de garanție: 5 ani în depozitare.



PRISTA® SHPD VDS-3

HEAVY DUTY DIESEL ENGINE OILS

Description and Application

Prista® SHPD VDS-3 multigrade engine oils are formulated with exceptionally high quality and carefully balanced blend of solvent refined and hydrotreated base stocks and high performance additive technology to provide superb performance and excellent durability in service.

Prista® SHPD VDS-3 are recommended for highly rated diesel engines in commercial vehicles, trucks, buses and equipment in road construction and agricultural industry meeting Euro I, Euro II, Euro III, Euro IV and Euro V emission requirements and running under severe conditions.

They are suitable for engines without particulate filters, and for most EGR engines and most engines fitted with SCR NOx reduction systems.

Benefits

- Protection against cylinder bore polishing and wear
- High engine cleanliness with considerably extended drain intervals up to 60 000 km
- Problem-free operation even in case of a heavily sooted oil
- High temperature thickening protection
- Bearing corrosion protection
- Foam control
- Easy engine start-ups even at very low sub-zero temperatures

Specifications

	SAE 15W-40	SAE 20W-50
ACEA	E7	
API	CI-4/SL	CH-4/SJ
MB	228.3*	228.3
MAN	M 3275-1	M 3275-1
Volvo	VDS-3	-
Renault Trucks	RLD/RLD 2	-
Cummins CES	200 76/77/78	-
Caterpillar	ECF-2, ECF-1-a	ECF-1-a
Mack	EO-N, EO-M Plus	-
MTU	Type 2	-
Global	DHD-1	
Deutz	DQC III-10	-
Detroit Diesel	93K215	-

*MB-Approval 228.3

Typical Characteristics

Parameter	Test Method	Typical Value	
		SAE 15W-40	SAE 20W-50
Density at 20°C, g/ml	EN ISO 3675	0.882	0.887
Kinematic Viscosity at 100°C, mm ² /s	EN ISO 3104	14.4	18.9
Kinematic Viscosity at 40°C, mm ² /s	EN ISO 3104	108.9	169.2
Viscosity Index	ISO 2909	135	127
Flash point COC, °C	EN ISO 2592	226	232
Pour point, °C	ISO 3016	-30	-24
TBN (HClO ₄), mg KOH/g	ASTM D2896	10.5	
Sulfated Ash, %	EN ISO 3987	1.35	

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



PRISTA® SUPER 10W-40

Old name: Prista Super Benzin 10W-40/ Prista Super Diesel 10W-40

PASSENGER CAR ENGINE OILS

Description and application

Prista® Super 10W-40 is semi-synthetic multigrade engine oil, especially developed to meet the current lubrication demands of the modern gasoline and diesel engines. It is formulated with a special selection of high quality solvent refined, hydrotreated and synthetic base stocks and high performance advanced additive technology, supplied by the major world leading companies.

Prista® Super 10W-40 multigrade engine oil is designed for application in the modern high performance gasoline and diesel engines in passenger cars and light-duty vehicles (vans). It is also suitable for passenger cars with gas equipment.

Benefits

- Excellent detergent/dispersant properties preventing black sludge deposit formation in engine crankcase
- Very high oxidation stability to reduce oil thickening, respectively oil consumption
- Steadfast oil drain intervals
- Confident corrosion protection
- Constant and stable lubricating film over a wide temperature range and under heavy loads

Specifications

	SAE 10W-40
ACEA	A3/B3
API	SL/CF
MB	229.1
VW	501 01/ 505 00
JASO	MA/MA-2

Typical characteristics

Parameter	Test Method	Typical Value
Density at 20°C, g/ml	EN ISO 3675	0.865
Kinematic Viscosity at 100°C, mm ² /s	EN ISO 3104	14.5
Kinematic Viscosity at 40°C, mm ² /s	EN ISO 3104	100
Viscosity Index	ISO 2909	150
Flash point COC, °C	EN ISO 2592	220
Pour point, °C	ISO 3016	-33
TBN (HClO ₄), mg KOH/g	ASTM D 2896	8.8
Sulfated Ash, %	EN ISO 3987	0.95

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