ТОВ "КСМ ПРОТЕК", вул. Ворошилова, буд. 1, смт. Клавдієво-Тарасове, 07850, Київська обл., Україна; тел. /ф.: 044 537 03 48 www.ksmprotec.com

CERTIFICATE OF ANALYSIS № 435

Motor oil TEMOL Diesel (M-10G2K)

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

Batch № 435 SAE 30 API CC

Manufacturing date: 23.04.21 Batch net weight: 24,2 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 100oC, cSt, in range	9,3-12,5	10,63	DSTU GOST 33
2	Viscosity Index, not lower than	95	100	DSTU GOST 25371
3	Total base number, mg KOH per 1 g, not lower than	6,0	6,40	DSTU 5094
4	Sulfated ash, %, not lower than	1,15	0,90	DSTU GOST 12417
5	Flash point (COC), °C, not lower than	220	231	GOST 4333
6	Pour point, °C, not more than	-18	-18	GOST 20287
7	Density at 20 °C, kg/m3, not more than	900	891	GOST 3900
8	Mechanical impurities content, %, not more than	0,015	0,011	GOST 6370
9	Water content, %, not more than	0,03	nill	GOST 2477
10	Calcium weight, %, not lower than	0,12	0,22	GOST 13538
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	Pass	Pass	GOST 20502 method A
13	Stabilization by inductive period of sedimentation (IPS), 50 hours	Pass	Pass	GOST 11063

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Motor oil TEMOL Diesel (M-10G2K) 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: 27.04.21

ТОВ "КСМ ПРОТЕК" * ВИПРОБУВАЛЬНА ЛАБОРАТОРІЯ * УКРАЇНА

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ТОВ "КСМ ПРОТЕК", вул. Ворошилова, буд. 1, смт. Клавдієво-Тарасове, 07850, Київська обл., Україна; тел. /ф.: 044 537 03 48 www.ksmprotec.com

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, мг KOH/г, 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

ТОВ "КСМ ПРОТЕК", вул. Ворошилова, буд. 1, смт. Клавдієво-Тарасове, 07850, Київська обл., Україна; тел. /ф.: 044 537 03 48 www.ksmprotec.com

CERTIFICATE OF ANALYSIS № 216

Transmission oil TEMOL Luxe Gear 85W-140

TU U 23.2-30858281-003:2004 zm.1,2,3

Batch № 216

Manufacturing date: 28.02.20 Batch net weight: 1,1 t API GL-5

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 100oC, cSt, in range	24,0 - 32,5	30,94	DSTU GOST 33 or ASTM D445
2	Viscosity Index, not lower than	90	115	DSTU GOST 25371 or ASTM D2270
3	Flash point (COC), °C, not lower than	215	245	DSTU GOST 4333 or ASTM D92
4	Pour point, °C, not more than	-15	-25	GOST 20287, method B or ASTM D97
5	Density at 20 °C, kg/m3, not more than	910	895	GOST 3900 or ASTM D1298
6	Mechanical impurities content, %, not more than	nil	nil	GOST 6370 or ASTM D2273
7	Water content, %, not more than	nil	nil	GOST 2477 or ASTM D95
8	Colour on colorimeter CNT, not more than	6,0	4,5	GOST 20284 or ASTM D1500
9	Corrosion test during 3 hr at 120°C on copper plates, point, not more than	2c	1c	GOST 2917 and p.7.4 or ASTM D130
10	Sequence I, not more than	100/0	10/0	DSTU 8420 or ASTM D 892
11	Sequence II, not more than	50/0	30/0	DSTU 8420 or ASTM D 892
12	Sequence III, not more than	50/0	10/0	DSTU 8420 or ASTM D 892
13	Four ball EP test machine (20±5°C): scuff index, N, not less than	490	568	GOST 9490 or ASTM D 2783
14	Four ball EP test machine (20±5°C): welding load, N, not less than	3 283	3 685	GOST 9490 or ASTM D 2783
15	Cold Cranking Simulatorat viscosity at -18oC, P*s, not more than	150	125	GOST 1929 method A

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion:Transmission oil TEMOL Luxe Gear 85W-140 sample satisfies the requirement of TU U 23.2-30858281-003:2004 zm.1,2,3 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture.

ВИПРОБУВАЛЬНА ЛАБОРАТОРІЯ * УКРАЇНА * ТОВ "КСМ ПРОТЕК"

Laboratory technicia _____

Laboratory head _____

Date of issue: 02.03.20

ТОВ "КСМ ПРОТЕК", вул. Ворошилова, буд. 1, смт. Клавдієво-Тарасове, 07850, Київська обл., Україна; тел. /ф.: 044 537 03 48 www.ksmprotec.com

CERTIFICATE OF ANALYSIS № 316

Transmission oil TEMOL ATF II

TU U 23.2-30858281-003:2004 zm.1,2,3

Batch № 316 DEXRON IID

Manufacturing date: 26.03.21 Batch net weight: 2,6 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Appearance	Transparent red liquid	Transparent red liquid	Visually
2	Kinematic viscosity at 100oC, cSt, in range	7 - 9	7,15	DSTU GOST 33 or ASTM D445
3	Viscosity Index, not lower than	130	178	DSTU GOST 25371 or ASTM D2270
4	Flash point (COC), °C, not lower than	175	220	DSTU GOST 4333 or ASTM D92
5	Pour point, °C, not more than	-40	-43	GOST 20287, method B or ASTM D97
6	Mechanical impurities content, %, not more than	nill	nill	GOST 6370 or ASTM D2273
7	Water content, %, not more than	nill	nill	GOST 2477 or ASTM D95
8	Density at 20 °C, kg/m3, not more than	880	836	GOST 3900 or ASTM D1298
9	Corrosion test during 3 hr at 100°C on steel and copper plates, point, not more than	2c	2a	GOST 2917 and p. 5.3 or ASTM D130
10	Dynamic viscosity (-40 oC), Pa*s, not more than	50	5,8	GOST 1929 method A
11	Sequence I, not more than	150/0	0/0	ASTM D 892 or DSTU 8420
12	Sequence II, not more than	75/0	0/0	ASTM D 892 or DSTU 8420
13	Sequence III, not more than	150/0	0/0	ASTM D 892 or DSTU 8420

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Transmission oil TEMOL ATF II sample satisfies the requirement of TU U 23.2-30858281-003:2004 zm.1,2,3 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture.

Laboratory technician

Laboratory head

Date of issue: 29.03.21

ТОВ "КСМ ПРОТЕК", вул. Ворошилова, буд. 1, смт. Клавдієво-Тарасове, 07850, Київська обл., Україна; тел. /ф.: 044 537 03 48 www.ksmprotec.com

CERTIFICATE OF ANALYSIS № 577

Transmission oil TAD-17i

GOST 23652-79, zm. 1-8

BUREAU VERITAS ISO 9001:2015

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 40oC, 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/m3, 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.

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Laboratory technician

Laboratory head

Date of issue: 21.10.22

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CERTIFICATE OF ANALYSIS № 297

Oil TEMOL Scooter 2T

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

Batch № 297 SAE 20

Manufacturing date: 26.04.23 Batch net weight: 3,0 t API TC

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 100oC, cSt, in range	6-12	10,56	DSTU GOST 33 or ASTM D445
2	Total base number, mg KOH per 1 g, not lower than	1,0	1,66	DSTU 5094 or SATM D2896 or ISO 3771
3	Sulfated ash, %, not more than	0,4	0,19	DSTU GOST 12417 or ASTM
4	Flash point (COC), °C, not lower than	205	240	DSTU GOST 4333 or ASTM D92
5	Pour point, °C, not more than	-15	-16	GOST 20287 method B or ASTM D97
6	Mechanical impurities content, %, not more than	0,015	nil	GOST 6370 or ASTM D2273
7	Water content, %, not more than	nil	nil	GOST 2477 or ASTM D95
8	Density at 20 °C, kg/m3, not more than	900	871	GOST 3900 or ASTM D1298
9	Corrosion test	Pass	Pass	GOST 2917 and P.6.12 or ASTM D130

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Oil TEMOL Scooter 2T 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: 27.04.23

ТОВ "КСМ ПРОТЕК", вул. Ворошилова, буд. 1, смт. Клавдієво-Тарасове, 07850, Київська обл., Україна; тел. /ф.: 044 537 03 48 www.ksmprotec.com

CERTIFICATE OF ANALYSIS № 87

Solidol Zhirovoi Lubricating Grease

GOST 1033-79 zm. 1,2,3

Batch № 87

Manufacturing date: 06.04.21 Batch net weight: 2,669 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 brown color	P.4.2 of GOST 1033
2	Dropping point, °C, not lower than	78	97	GOST 6793
3	Penetration at 25°C, 0,1 mm	230 - 290	250	GOST 5346, method V
4*	Viscosity at 0°C and velocity gradient of 10 s-1, Pa*s, not more than	250	235	GOST 7163
5	Shear stability at 50°C, Pa, not lower than	196	216	GOST 7143
6	Free organic acids content, not more than	nill	nill	GOST 6707
7	Water content, %, not more than	2,5	1,6	GOST 2477
8*	Mechanical impurities insoluble in hydrochloric acid content	nill	nill	GOST 6479
9*	Calcium soaps of fatty acids conter, %, not less than	11,0	13,1	GOST 5211
10	Free alkali content NaOH, %, not more than	0,2	0,13	GOST 6707

Manufactured by KSM PROTEC LLC

Conclusion: **Solidol Zhirovoi** lubricating grease sample satisfies the requirement of GOST 1033-79 zm. 1,2,3 standard based on characteristics analyzed.

Laboratory technician _____

Laboratory head _____

Date of issue: 07.04.21

ТОВ "КСМ ПРОТЕК", вул. Ворошилова, буд. 1, смт. Клавдієво-Тарасове, 07850, Київська обл., Україна; тел. /ф.: 044 537 03 48, www.ksmprotec.com

CERTIFICATE OF ANALYSIS № 89

Litol-24 Lubricating Grease

DSTU GOST 21150:2019

Batch № 89

Manufacturing date:07.04.21 Batch net weight: 4,437 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 brown color*	P. 7.2
2	Dropping point, °C, not lower than	185	193	GOST 6793
3	Penetration at 25°C, 0,1 mm, in range	220 - 250	235	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/cm2), in range	500 (5,0) - 1 000 (10,0)	686 (6,86)	GOST 7143, method B
8	Shear stability at 80°C, Pa (gs/cm2), not lower than	200 (2,0)	216(2,16)	GOST 7143, method B
9	Colloid stability, %, of separated oil, not more than	12,0	6,63	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	nill	nill	GOST 2477 and P. 7.4
14	Mechanical impurities content, %, not more than	0,03	0,01	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 analyzed.

Laboratory technician

Laboratory head

Date of issue: 08.04.21

ТОВ "КСМ ПРОТЕК" * ЛАБОРАТОРІЯ ВИПРОБУВАЛЬНА * УКРАЇНА *

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CERTIFICATE OF ANALYSIS № 60

Antifreeze TEMOL Tosol A-40

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

Batch № 60

Manufacturing date: 12.12.22 Batch net weight: 7,5 т

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Appearance	Uniform transparent liquid without mechanical impurities. Color must reffer to sample's color	Uniform transparent liquid without mechanical impurities with blue color	p.8.4
2	Density at 20 °C, kg/m3, not lower than	1,065	1,072	DSTU 7261
3	Temperature of crystallization start, °C, not more than	-38	-38	p.8.5
4	Fractional content: temperature of distillation start, °C, not lower than	100	105	p.8.6
5	Fractional content: mass fraction of liquid, that distills before 150 °C, %, not more than	55	46	p.8.6
6	Corrosive affect on metals, g/m^2*day, not more: copper, brass, steel, cast iron, aluminum	0,30	0,092	p.8.7
7	Corrosive affect on metals, g/m2*day, not more: solder	0,50	0,106	p.8.7
8	Foam formation: foam's volume, cm^3, not more than	50	40	p.8.8 or ASTM D1881
9	Foam formation: foam's stability, sec, not more than	5	2	p.8.8 or ASTM D1881
10	Rubber's volume increase , %, not more than	5	1,5	p.8.9
11	pH value at 20°C, in range	7,5 - 11	8,86	p.8.10 or ASTM D1287
12	Alkalinity, cm^3, not lower	2,0	18,00	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 standard based on characteristics analyzed.

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Laboratory technic

Laboratory head

Date of issue: 15.12.22

ТОВ «КСМ ПРОТЕК», вул. Варшавська, буд. 1, смт. Клавдієво-Тарасове, 07850, Київська обл., Україна; тел./ф.: 044 537 03 48 www.ksmprotec.com

CERTIFICATE OF ANALYSIS № 6

TEMOL Antifreeze Luxe G12 Red

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

Batch № 6

Manufacturing date 19.01.24 Batch net weight 7 t

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Appearance	Homogeneous transparent liquid without mechanical impurities. The color must match the color of the sample standard	Homogeneous transparent liquid without mechanical impurities of red color	p.7.4
2	Density at 20 °C, kg/m3, not lower	1.065	1.072	DSTU 7261
3	Temperature of the onset of crystallization , oC, not more than	-38	-40	p.7.5
4	Boiling Point, °C, not lower	104	106	p. 7.13 or ASTM D1120
5	Corrosion effect on metals, g/m2 per day, not more than: copper, brass, steel, cast iron, aluminum	0.15	0,088	p.7.7
6	Corrosion effect on metals, g/m2 per day, not more than: solder	0,3	0,095	p.7.7
7	Foaming: the volume of foam, sm³, not more than	150	40	p.7.8 or ASTM D1881
8	Foaming: foam stability,s, not more than	5	0	p.7.8 or ASTM D1881
9	pH, within	7,5 - 11	7,74	DSTU 2201.1 and p.7.10 or ASTM D1287 and p.7.10
10	Alkalinity, sm3, not lower	1,0	1,89	p. 7.11

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: TEMOL Antifreeze Luxe G12 Red sample satisfies the requirement of TU U 20.5-30858281-009:2016 zm.1,2 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture.

Laboratory technician _____

Laboratory head _____

Date of issue 23.01.24p.

ТОВ «КСМ ПРОТЕК», вул. Варшавська, буд. 1, смт. Клавдієво-Тарасове, 07850, Київська обл., Україна; тел./ф.: 044 537 03 48 www.ksmprotec.com

CERTIFICATE OF ANALYSIS № 81

Motor Oil PROTEC HD 10W-40

TU U 19.2-37838186-002:2012, zm.1,2

Batch № 81 API CI-4/SL Volvo VDS-2, Renault RD-2

Manufacturing date 08.02.24 Batch net weigh 2,597t ACEA E7, A3/B4

Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 100oC, cSt, in range	12,5 - 16,3	15,29	DSTU GOST 33 or ASTM D445
2	Viscosity Index, not lower than	125	156	DSTU GOST 25371 or ASTM D2270
3	Total base number, mg KOH per 1 g, not lower than	8,5	10,25	DSTU 5094 or ISO 3771 or ASTM D2896
4	Sulfated ash, %, not lower than	1,45	1,15	DSTU GOST 12417 or ASTM D874
5	Flash point (COC), °C, not lower than	205	217	DSTU GOST 4333 or ASTM D92
6	Pour point, °C, not more than	-30	-33	GOST 20287 or ASTM D97
7	Density at 20 °C, kg/m3, not more than	910	874	GOST 3900 or ASTM D1298
8	Mechanical impurities content, %, not more than	0,01	nil	DSTU GOST 6370 or ASTM D2273
9	Water content, %, not more than	0,05	nil	DSTU GOST 2477 or ASTM D95
10	Calcium + magnesium in calcium weight, %, not lower than	0,28	0,382	GOST 13538 or ASTM D6443
11	Zinc weight, %, not lower than	0,09	0,111	GOST 13538 or ASTM D6443
12	Colour on colorimeter (15:85), not more than	3,0	1,5	GOST 20284 or ASTM D1500
13	Viscosity is dynamic at -25oC, cSt, not more than	7 000	6 700	GOST 1929 or ASTM D5293
14	Corrosion on plumbum plates (DK-NAMI), g/m2, not more than	Pass	Pass	GOST 20502
15	Stabilization by inductive period of sedimentation (IPS), hours 50	Pass	Pass	DSTU GOST 11063

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Motor Oil PROTEC HD 10W-40 sample satisfies the requirement of TU U 19.2-37838186-002:2012 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: 09.02.24p.

LUBRO DOT 4

NR 16 / 07.06.2021

Lichid pentru frana si ambreiaj DOT 4

Specificatii

- ATE DOT 4
- FMVSS 116
- ISO 4925 Class 4
- SAE J 1703/ 1704

Descrierea produsului

LUBRO DOT 4 este un lichid de inalta performanta special dezvoltat pentru frane si ambreiaje. Acesta contine polietilenglicol esteri, aditivi pentru a asigura protectie impotriva coroziunii si oxidarii si stabilizatori. Acest lichid de frana nu este compatibil cu lichidele de frana pe baza de uleiuri minerale.

Aplicatii

LUBRO DOT 4 este destinat utilizarii in sistemele de franare hidraulice si ambreiajele tuturor tipurilor de autovehicule de la autoturisme la camioane, autobuze si trailere, in conformitate cu instructiunile din cartile tehnice. Este compatibil si special destinat sistemelor de franare echipate cu sigilii si garnituri din cauciuc SBR (cauciuc butadien stirenic) sau EPDM (cauciuc etilen propilen dien monomer).

Caracteristici tipice

Informatiile furnizate in datele tipice nu constituie o specificaţie, dar aceste valori se bazeaza pe producţia curenta si pot fi afectate de toleranţele admisibile de producţie. Dreptul de a face modificari este rezervat ANDY MAR GRUP JUNIOR SRL

Proprietate	Metode de incercare	Valoare
Aspect	vizual	Lichid limpede, omogen
Culoare	vizual	Galben deschis
Miros	olfactiv	Caracteristic
Densitate la 20°C, g/cm^3	EN ISO 3675	1.066
Viscozitate cinematica la 20°C, mm^2/s	EN ISO 3104	15.95
Viscozitate cinematica la 50°C, mm^2/s		6.05
Viscozitate cinematica la 100°C, mm^2/s		2.2
Punct de fierbere, °C	EN ISO 3104	260
Punct de inflamabilitate, COC, °C	EN ISO 2592	144
pH	ASTM E 70	8.2
Stabilitate la temperaturi ridicate, °C	ISO 4925, s.5.4	max ± 3 , + 0.05 °C pentru fiecare grad peste 225 °C

Termen de valabilitate

Termenul de valabilitate, la stocare, in ambalajul original, in locuri uscate, este de 5 ani de la data fabricatiei.

Sanatate, Securitate, Transport si Depozitare

Lichidele de frana sunt foarte higroscopice si absorb usor umezeala din aer. Apa afecteaza puternic punctul de fierbere si calitatea lichidelor de frana. Pe baza informațiilor actuale disponibile, acest produs nu este de asteptat sa produca efecte adverse asupra sanatatii atunci cand este utilizat in scopul pentru care a fost recomandat. Va rugam sa urmati cu strictete recomandarile privind conditiile de depozitatre din fisa cu date de securitate.

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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 pompare. 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 garanţie - 2 ani in depozitare.

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EASY WIPE SUMMER 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.

2. DOMENIU DE UTILIZARE

Indeparteaza usor murdaria care se depune in mod frecvent pe parbrizul si luneta autovehiculelor in sezonul cald (praf, noroi, insecte). Produsul este economic avand o putere mare de curatare la o singura pompare. Poate fi utilizat cu mare eficienta si la spalarea manuala a oglinzilor retrovizoare, exteriorul geamurilor si lunetei autovehiculelor.

3. MOD DE UTILIZARE

Se foloseste ca atare fara a mai fi diluat.
A nu se utiliza pe timp de iarna cand temperatura scade sub 0°C.

4. CONDITII TEHNICE DE CALITATE

Nr. Crt.	CARACTERISTICI	METODA DE VERIFICARE	VALORI	
			prevazut	typ
1	Aspect	Vizual	Omogen, clar	Omogen, clar
2	Culoare	Vizual	mov	mov
3	Miros	Olfactiv	Caracteristic parfumat	Caracteristic parfumat
4	Masa volumica absoluta Kg/l	ISO 758	1,00	1,00
5	Valoarea pH	ISO 4316	7,5+/- 0,5	7,5
6	Punct de congelare, °C	STAS 39	0	0

Ambalare: bidoane de plastic de 4 l.
Termenul de garanţie - 2 ani in depozitare.