



Certificate of Conformity

No. 1066 / 02.06.2023

This is to confirm "HEXOL STOU 10W30"

Has been formulated with accordance to the specification: API CG-4/SF, API GL-4, ACEA E3, Massey Ferguson CMS 1145, 1144, 1139; FORD M2C159B; Allison C4; ZF TE ML 06A, 06B, 06C, 06D, 07B; Caterpillar TO-2; John Deere J27; MB 227.1, MB 228.1, MB 228.3; MAN 271; MIL-L-2104D; New Holland 82009201/2/3; Case New Holland MAT3525, 3526 And manufactured by SC Hexol Lube SRL

Batch Number: 1/02.06.2023

Quantity: 36 x 20 Litre Canister

Total Litres: 720 Litres

Test Results and Characteristics

Characteristics	Unit	Specification	Measured value	Method
Appearance		bright, clear, red	bright, clear, red	Visual
Kinematic viscosity at 40 °C	mm ² /s	60 - 90	66.23	ASTM D 445
Kinematic viscosity at 100 °C	mm ² /s	9.3 - 12.5	10.3	ASTM D 445
Viscosity index		min. 140	142	STAS 55-81
Density at 20 °C	g/cm ³	max. 0.8768	0.8662	STAS 35-81

We declare that the product specified above are accordind with the specifications.

Do not modify or alterate this certificate.



Issued to
CALBOR GRUP SRL
CHISINAU
REPUBLICA MOLDOVA

Quality and Environmental Compliance Manager

Ing. Iiinea Rotaru



"Lubricants Balkans d.o.o."
 Владимира Поповића 38-40
 11000 Београд, Србија
 Lubricants Balkans Ltd.
 38-40 Vladimira Popovica str.
 Belgrade, 11000, Serbia



**LUBRICANTS
 BALKANS**

**Уверење о квалитету
 Certificate of Analysis**

Шифра производа/Product code:
 18072/12

Датум/Date: 15.06.2023

Назив производа/Product name:

GAZPROMNEFT T ATF II

Шаржа/Batch: 31026-3203

Ниво квалитета/Quality level: GM DEXRON DII; ZF TE-ML 03D/04D/14A/17C; VOITH 55.6335;
 MB 236.1/236.6/236.7/ 236.9; MAN 339V1&Z1; ALLISON C-4; CARTERPILLAR TO-2; VOLVO 97335.

Карактеристика, јединица мере Characteristic, unit	Методе Methods	Резултати Results	Границе Limits
Изглед Appearance	VDM 12	Бистра вискозна црвена течност Clear viscous red liquid	Бистра вискозна црвена течност Clear viscous red liquid
Густина, 15°C, kg/m ³ Density at 15°C, kg/m ³	ASTM D 4052	870,4	Наводи се Read
Кинематска вискозност на 100°C, mm ² /s Kinematic Viscosity at 100°C, mm ² /s	SRPS ISO 3104	7,080	7,0-7,5
Индекс вискозности Viscosity Index (IV)	SRPS ISO 2909	162	≥ 150
Вискозност Brookfield (-40 °C), mPas Viscosity Brookfield (-40°C), mPas	ASTM D 2983	45000	≤ 50000
Тачка паљења, COC, °C Flash Point, COC, °C	SRPS EN ISO 2592	202	≥ 170
Тачка течења, °C Pour Point, °C	SRPS ISO 3016	<-42	≤ -40
Садржај воде и талога, v/v % Water and sediment Content, v/v %	SRPS ISO 3734	<0,05	≤ 0,05
Склоност ка пенишању/стабилност пене, ml/ml Foaming tendency/stability, ml/ml	SRPS ISO 6247		
- Секвенца I на 24°C - I Sequence at 24°C		0/0	Max 25/0
- Секвенца II на 93.5°C - II Sequence at 93.5°C		20/0	Max 50/0
- Секвенца III на 24°C - III Sequence at 24°C		0/0	Max 25/0
Корозивност Cu траке (3h, на 150°C), класа Cooper strip corrosion (3h/150°C), max	SRPS ISO 2160	2a	Max Класа 2b Max Class 2b
Превенција од рђања, 60 °C, 4h Rust protection, 60 °C, 4h	ASTM D 665-a	Пролази Pass	Без рђе и корозије Free of rust and corrosion





SAFETY DATA SHEET

according to Commission Regulation (EC) No 1907/2006, Article 31, Annex II as amended

Page 2 of 11

Version / Revision: 2/1

Date: 18.04.2022.

Date of previous issue: 1.08.2021.

GAZPROMNEFT ADBLUE

2.2. Label elements

Hazard pictograms:

Not applicable.

Signal word:

Not applicable.

Hazard statements:

Not applicable.

Additional hazard statements:

EUH210 - Safety Data Sheet available on request.

Precautionary statements:

P102 - Keep out of reach of children.

Supplemental label information:

Not applicable.

2.3 Other hazards

The mixture contains no components considered to be PBT/vPvB at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Information on ingredients of the substance

Not applicable, the product is a mixture.

3.2. Information on ingredients of the mixture

Index No CAS No EC No	REACH Registration No	Name	CLP/GHS ¹	Concentration range w/w %
- 57-13-6 200-315-5	01-2119463277-33-0138	Urea	Not classified	31.8 – 33.2

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhaled:

Move casualty away from source of exposure. Provide fresh air. If symptoms persist, call a physician. If breathing heavily, irregularly, or not breathing, give artificial respiration (only by skilled, qualified personnel). Make sure respiratory tract passages are free of obstacles at every moment. Seek medical attention promptly.

¹ Regulation (EC) 1272/2008





Certificate of Analysis
Уверење о квалитету

Product code: 18033/01
Date: 04.01.2022.

Назив производа/Product: **GAZPROMNEFT DOT 4**

Шаржа/Batch: 20006-2004

Ниво квалитета/Quality level: SRPS H.Z2.100 tip 2, US FMVSS 116 DOT 4, SAE J 1703/1704, ISO 4925 class 4

Карактеристика, јединица мере Characteristic, unit	Методе Methods	Резултати Results	Границе Limits
Изглед Appearance	VDM 12	Бистра вискозна течност Clear viscous liquid	Бистра вискозна течност Clear viscous liquid
Густина, 20°C, kg/m ³ Density at 20°C, kg/m ³	ASTM D 5931	1066,3	Наводи се Read
Кинематска вискозност на 100°C, mm ² /s Kinematic Viscosity at 100°C, mm ² /s	SRPS ISO 3104	1,781	≥ 1,5
pH вредност pH value	SRPS ISO 4925	10,0	7,0 – 11,5
Тачна кључања, °C Boiling point, °C	SRPS ISO 4925	267	≥ 232

Note/Напомена:

The product meets the requirements of the GAZPROMNEFT DOT 4 product standard.

This Certificate of Analysis has been issued on the basis of the Test Report No: 20019979 from Scientific Tehnological Centar, Direction Laboratory Downstream Novi Sad.

Производ испуњава захтеве стандарда GAZPROMNEFT DOT 4

Ова Уверење о квалитету је издато на основу извештаја о испитивању број: 20019979 Научно-технолошког центра, лабораторије Downstream Нови Сад.

Product and raw materials quality manager: N.Adamovic
Менаџер за квалитет производа и сировина: Н.Адамовић

This certificate has been validated by electronic data processing and is therefore not signed.

Ово Уверење о квалитету је валидно без потписа јер је потврђено електронски.

Manufactured under order of: "Gazpromneft Lubricants Balkans Ltd d.o.o. Belgrade", 38-40 Vladimira Popovica str., Belgrade, 11000, Serbia. tel: +381 11 2058665

Произведено по наруџби: "Gazpromneft Lubricants Balkans d.o.o. Beograd", Vladimira Popovica 38-40, Beograd, 11000, Србија, тел: +381 11 2058665

Manufacturer: NIS AD Novi Sad 12 Narodnog fronta str. Novi Sad, 21000 Serbia. tel: + 381 06 0000 8888

Произвођач: НИС АД Нови Сад Народног фронта 12 Нови Сад, 21000 Србија, тел: + 381 06 0000 8888





Certificate of analysis

Certificate no.: **814**
Product: **MotoROil M-10DM**
Date of issue: 13.06.2023

Batch no.: **106**
Date of manufacture: 13.06.2023

Typical Characteristics

Name	Test method	Value
Appearance	VL-TA-P-051	Clear and Bright
Density @15°C, g/cm ³	ASTM D4052	0.8934
Kinematic viscosity @40°C, mm ² /s ⁻¹	ASTM D445	95.27
Kinematic viscosity @100°C, mm ² /s ⁻¹	ASTM D445	10.87
Viscosity index	ASTM D2270	97
Flash Point °C	ASTM D92	235
Pour Point °C	ASTM D97	-18
Color	ASTM D1500	3
TBN mg KOH/g	ASTM D2896	8.5

Head of laboratory



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**LUBRICANTS
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**Уверење о квалитету
 Certificate of Analysis**

Шифра производа/Product code:
 18172/06

Датум/Date: 28.06.2023

Назив производа/Product name:

G-ENERGY DIESEL PREMIUM 10W-40

Шаржа/Batch: 31081-3243

Ниво квалитета/Quality level: API CI-4/SL, ACEA E7-16, MB 228.3, MAN M3275-1, Volvo VDS-3, Renault Truck RLD-2, Mack EO-N/ EO-M Plus, Cummins CES 20078/20077/20076, Caterpillar ECF-2/ECF-1a, Deutz DQC III-18, Detroit Diesel DDC 93K215, MTY Type 2, Global DHD 1

Карактеристика, јединица мере Characteristic, unit	Методе Methods	Резултати Results	Границе Limits
Изглед Appearance	VDM 12	Бистра вискозна течност Clear viscous liquid	Бистра вискозна течност Clear viscous liquid
Густина, 15°C, kg/m ³ Density at 15°C, kg/m ³	ASTM D 4052	873,6	Наводи се Read
Кинематска вискозност на 40°C, mm ² /s Kinematic Viscosity at 40°C, mm ² /s	SRPS ISO 3104	98,26	Очитана Read
Кинематска вискозност на 100°C, mm ² /s Kinematic Viscosity at 100°C, mm ² /s	SRPS ISO 3104	14,41	14,0-15,5
Индекс вискозности, Viscosity Index (IV),	SRPS ISO 2909	151	≥ 140
Вискозност CCV (-25 °C), mPas Viscosity CCV (-25 °C), mPas	ASTM D 5293	5511	≤ 7000
Тачка паљења, COC, °C Flash Point, COC, °C,	SRPS EN ISO 2592	224	≥ 215
Тачка течења, °C, Pour Point, °C,	SRPS ISO 3016	-42	≤ -30
Садржај воде и талога, v/v % Water and sediment Content, v/v %	SRPS ISO 3734	< 0,05	≤ 0,05
Испарљивост по Ноаку (1h, 250°C), m/m %, Volatility Loss by Noack (1h, 250°C), m/m%,	ASTM D 5800	11,7	≤ 13,0
Склоност ка пенушању/стабилност пене, ml/ml Foaming tendency/stability, ml/ml	SRPS ISO 6247		
- Секвенца I на 24°C - I Sequence at 24°C		0/0	Max 10/0
- Секвенца II на 93.5°C - II Sequence at 93.5°C		0/0	Max 20/0
- Секвенца III на 24°C - III Sequence at 24°C		0/0	Max 10/0
Сулфатни пепео, m/m % Sulphur ash, m/m%,	SRPS ISO 3987	1,38	≤ 1,5
TBN, mgKOH/g, TBN, mgKOH/g,	SRPS ISO 3771	11,5	≥ 10



Certificate of analysis

Certificate no.: **525**
Product: **I-20**
Date of issue: 19.04.2023

Batch no.: **70**
Date of manufacture: 19.04.2023

Typical Characteristics

Name	Test method	Value
Appearance	VL-TA-P-051	Clear and Bright
Density @15°C, g/cm ³	ASTM D4052	0.8750
Kinematic viscosity @40°C, mm ² /s ⁻¹	ASTM D445	33.38
Kinematic viscosity @100°C, mm ² /s ⁻¹	ASTM D445	5.58
Viscosity index	ASTM D2270	104
Flash Point °C	ASTM D92	225
Pour Point °C	ASTM D97	-12
Color	ASTM D1500	1.5
TBN mg KOH/g	ASTM D2896	0.8

Head of laboratory





Certificate of Conformity

No. 1045 / 31.05.2023

This is to confirm "HEXOL ATF DEXRON II"

Has been formulated with accordance to the specification: GM Dexron – IID, Ford Mercon, Allison C4, MAN 339 Typ V1-Z1, CATERPILLAR TO2, Voith H55.6335, ZF TE-ML 02F, 03D, 04D, 09, 11A, 14A, 17C

And manufactured by SC Hexol Lube SRL

Batch Number: 1/31.05.2023

Quantity: 600 x 1 Litre

Total Litres: 600 Litres

Test Results and Characteristics

Characteristics	Unit	Specification	Measured value	Method
Appearance		bright, clear, red	bright, clear, red	Visual
Kinematic viscosity at 40 °C	mm2/s	37.5 - 80	57.1	ASTM D 445
Kinematic viscosity at 100 °C	mm2/s	7 - 10	9.63	ASTM D 445
Viscosity index		min. 150	153	STAS 55-81
Density at 20 °C	g/cm3	max. 0.8718	0.8573	STAS 35-81

We declare that the product specified above are according with the specifications.

Do not modify or alterate this certificate.

Issued to
CALBOR GRUP SRL
CHISINAU
REPUBLICA MOLDOVA



Quality and Environmental Compliance Manager

Ing. Ilinca Rotaru



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**LUBRICANTS
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**Уверење о квалитету
 Certificate of Analysis**

Шифра производа/Product code:
 18095/42

Датум/Date: 16.06.2023

Назив производа/Product name:

GAZPROMNEFT X HYDRO HLP 46

Шаржа/Batch: 31044-3227

Ниво квалитета/Quality level: SRPS ISO 6743-4 (L-HM), SRPS ISO 11158 (L-HM), DIN 51524-2 HLP, DENISON HF-0/HF-2, AFNOR NF E 48-603 (HM), SPERY VICKERS I-286-S

Карактеристика, јединица мере Characteristic, unit	Методе Methods	Резултати Results	Границе Limits
Изглед Appearance	VDM 12	Бистра вискозна течност Clear viscous liquid	Бистра вискозна течност Clear viscous liquid
Густина, 15°C, kg/m ³ Density at 15°C, kg/m ³	ASTM D 4052	877,3	Наводи се Read
Кинематска вискозност на 40°C, mm ² /s Kinematic Viscosity at 40°C, mm ² /s	SRPS ISO 3104	48,33	41,4-50,6
Кинематска вискозност на 100°C, mm ² /s,min Kinematic Viscosity at 100°C, mm ² /s,min	SRPS ISO 3104	6,976	≥ 6,1
Индекс вискозности Viscosity Index (IV)	SRPS ISO 2909	100	≥ 95
Тачка паљења, COC, °C Flash Point, COC, °C	SRPS EN ISO 2592	222	≥ 185
Тачка течења, °C Pour Point, °C	SRPS ISO 3016	-30	≤ -15
Садржај воде, m/m % Water Content, m/m %	ASTM D 6304	0,0030	≤ 0,025
Деемулзивност, време до 3 ml емулзије на 54°C, ml-ml-ml (минути) Water separability at 54°C, time until 3 ml emulsion, ml-ml-ml (minute)	ASTM D 1401	42-38-0 (15)	≤ (30')
Склоност ка пенушању/стабилност пене, ml/ml Foaming tendency/stability, ml/ml	SRPS ISO 6247		
- Секвенца I на 24°C - I Sequence at 24°C		0/0	Max 100/0
- Секвенца II на 93.5°C - II Sequence at 93.5°C		20/0	Max 75/0
- Секвенца III на 24°C - III Sequence at 24°C		0/0	Max 100/0
Корозивност Си траке (3h, на 100°C), класа Cooper strip corrosion (3h/100°C), max	SRPS EN ISO 2160	1a	Max Класа 1b Max Class 1b
Киселински број, mg KOH/g Acid number, mgKOH/g	ASTM D 974	0,5	Наводи се Read



Уверење о квалитету
Certificate of Analysis

Шифра производа/Product code:
 18181/01

Датум/Date: 12.01.2023

Назив производа/Product name:

G-ENERGY X HYDRO HLP 68

Шаржа/Batch: 30074-3020

Ниво квалитета/Quality level: SRPS ISO 6743-4 (L-HM), SRPS ISO 11158 (L-HM), DIN 51524-2 HLP, DENISON HF-0/HF-2, AFNOR NF E 48-603 (HM), SPERY VICKERS I-286-S

Карактеристика, јединица мере Characteristic, unit	Методе Methods	Резултати Results	Границе Limits
Изглед Appearance	VDM 12	Бистра вискозна течност Clear viscous liquid	Бистра вискозна течност Clear viscous liquid
Густина, 15°C, kg/m ³ Density at 15°C, kg/m ³	ASTM D 4052	880,6	Наводи се Read
Кинематска вискозност на 40°C, mm ² /s Kinematic Viscosity at 40°C, mm ² /s	SRPS ISO 3104	70,96	61,2-74,8
Кинематска вискозност на 100°C, mm ² /s Kinematic Viscosity at 100°C, mm ² /s	SRPS ISO 3104	8,786	≥ 7,8
Индекс вискозности Viscosity Index (IV)	SRPS ISO 2909	95	≥ 95
Тачка паљења, COC, °C Flash Point, COC, °C	SRPS EN ISO 2592	226	≥ 195
Тачка течења, °C Pour Point, °C	SRPS ISO 3016	-30	≤ -12
Садржај воде, m/m % Water Content, m/m %	ASTM D 6304	0,0039	≤ 0,025
Деемулзивност, време до 3 ml емулзије на 54°C, ml-ml-ml (минути) Water separability at 54°C, time until 3 ml emulsion, ml-ml-ml (minute)	ASTM D 1401	43-37-0 (20')	≤ (30')
Склоност ка пенушању/стабилност пене, ml/ml Foaming tendency/stability, ml/ml	SRPS ISO 6247		
- Секвенца I на 24°C - I Sequence at 24°C		0/0	Max 100/0
- Секвенца II на 93,5°C - II Sequence at 93,5°C		20/0	Max 75/0
- Секвенца III на 24°C - III Sequence at 24°C		0/0	Max 100/0
Корозивност Cu траке (3h, на 100°C), класа Cooper strip corrosion (3h/100°C), max	SRPS EN ISO 2160	1a	Max Класа 1b Max Class 1b
Киселински број, mg KOH/g Acid number, mgKOH/g	ASTM D 974	0,5	Наводи се Read



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**LUBRICANTS
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**Уверење о квалитету
Certificate of Analysis**

Шифра производа/Product code:
18178/11

Датум/Date: 23.06.2023

Назив производа/Product name:

G-ENERGY SUPER 10W-40

Шаржа/Batch: 31065-3136

Ниво квалитета/Quality level: API SG/CD

Карактеристика, јединица мере Characteristic, unit	Методе Methods	Резултати Results	Границе Limits
Изглед Appearance	VDM 12	Бистра вискозна течност Clear viscous liquid	Бистра вискозна течност Clear viscous liquid
Густина, 15°C, kg/m ³ Density at 15°C, kg/m ³	ASTM D 4052	869,5	Наводи се Read
Кинематска вискозност на 40°C, mm ² /s Kinematic Viscosity at 40°C, mm ² /s	SRPS ISO 3104	94,28	Очитана Read
Кинематска вискозност на 100°C, mm ² /s Kinematic Viscosity at 100°C, mm ² /s	SRPS ISO 3104	13,88	13,8-15,0
Индекс вискозности Viscosity Index (IV)	SRPS ISO 2909	150	≥ 140
Вискозност CCS (-25 °C), mPas Viscosity CCS (-25 °C), mPas	ASTM D 5293	6639	≤ 7000
Тачка паљења, COC, °C Flash Point, COC, °C	SRPS EN ISO 2592	228	≥ 215
Тачка течења, °C Pour Point, °C	SRPS ISO 3016	-39	≤ -30
Садржај воде и талога, v/v % Water and sediment Content, v/v %	SRPS ISO 3734	<0,05	≤ 0,05
Склоност ка пенушању/стабилност пене, ml/ml Foaming tendency/stability, ml/ml	SRPS ISO 6247		
- Секвенца I на 24°C - I Sequence at 24°C		0/0	Max 20/0
- Секвенца II на 93.5°C - II Sequence at 93.5°C		10/0	Max 50/0
- Секвенца III на 24°C - III Sequence at 24°C		0/0	Max 20/0
TBN, mgKOH/g TBN, mgKOH/g	SRPS ISO 3771	6,4	≥ 5,3

Напомена/Note

Производ испуњава захтеве стандарда G-ENERGY SUPER 10W-40.

Ово Уверење о квалитету је издато на основу извештаја о испитивању број: 20031908&20035230 Научно-технолошког центра, лабораторије Downstream Нови Сад

The product meets the requirements of the standard of G-ENERGY SUPER 10W-40.

This Certificate of Analysis has been issued on the basis of the Test Report No: 20031908&20035230 from Scientific Tehnological Centar, Direction Laboratory Downstream Novi Sad.



Certificate of analysis

Certificate no.: **816**
Product: **MotoROil M10-G2k**
Date of issue: 13.06.2023

Batch no.: **106**
Date of manufacture: 13.06.2023

Typical Characteristics

Name	Test method	Value
Appearance	VL-TA-P-051	Clear and Bright
Density @15°C, g/cm ³	ASTM D4052	0.8921
Kinematic viscosity @40°C, mm ² /s ⁻¹	ASTM D445	92.24
Kinematic viscosity @100°C, mm ² /s ⁻¹	ASTM D445	10.65
Viscosity index	ASTM D2270	98
Flash Point °C	ASTM D92	235
Pour Point °C	ASTM D97	-18
Color	ASTM D1500	L2.5
TBN mg KOH/g	ASTM D2896	6.0

Head of laboratory





ПАСПОРТ КАЧЕСТВА № 23-2902

Жидкость охлаждения
низкотемпературная марки ТА

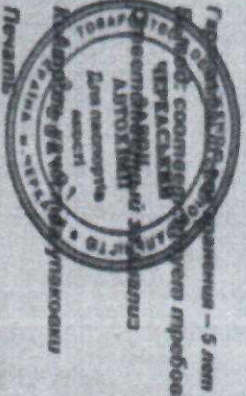
Исполнитель: ООО "Чувствительная техника", Уфа, ул. Чувствительная 118, тел. +7 (917) 64-64-64, 64-64-69

Партня №: 23-354-03
Место ввода: в устье на вентиль

Дата фиксации
Вид и тип ввода

29.08.2023
визит №

№	Наименование показателя	Норма	Факт	Метод испытаний
1	Внешний вид			ТВ У 24.6.1421001-001 2010 4.8.3
2	Температура при температуре 20 °С, °С, не выше	1,000	1,000	ТВ У 24.6.1421001-001 2010 4.8.3
3	Температура начала кристаллизации, °С, не выше	-25	-23,0	ТВ У 24.6.1421001-001 2010 4.8.3
4	Температура кристаллизации, °С, не выше	-25	-25,0	ТВ У 24.6.1421001-001 2010 4.8.3
5	Кристаллическая структура КСЧ, не выше	10	10	ТВ У 24.6.1421001-001 2010 4.8.11
6	Вязкость при температуре 20 °С	7,5-11,0	8,2	ТВ У 24.6.1421001-001 2010 4.8.10
7	Низкотемпературная вязкость, % не больше	5	2,0	ТВ У 24.6.1421001-001 2010 4.8.9
8	Флуоресцентный склероз	100	100	ТВ У 24.6.1421001-001 2010 4.8.8
9	Температура начала полимеризации, °С, не выше Флуоресцентный склероз для выявления загрязнений для температуры, °С, не больше Коррозионное воздействие на металл (мд ср., не больше)	60	56,4	ТВ У 24.6.1421001-001 2010 4.8.7
	сплошная	0,1	0,08	
	штрих	0,1	-0,05	
	сетка	0,1	0,07	
	мелкая	0,1	0,03	
	крупная	0,1	-0,03	
	присадки	0,2	0,04	
10	Вспениваемость	30	0	ТВ У 24.6.1421001-001 2010 4.8.8
	Объем пены (мл) не больше	30	0	
	Остаток пены, с не больше	3	0	



Согласно условиям договора № 78 от 29.07.2021

Подпись
Подпись



Certificate of analysis

Certificate no.: **531**
Product: **MotoROil M-8B**
Date of issue: 20.04.2023

Batch no.: **71**
Date of manufacture: 20.04.2023

Typical Characteristics

Name	Test method	Value
Appearance	VL-TA-P-051	Clear and Bright
Density @15°C, g/cm ³	ASTM D4052	0.8835
Kinematic viscosity @40°C, mm ² /s ⁻¹	ASTM D445	62.70
Kinematic viscosity @100°C, mm ² /s ⁻¹	ASTM D445	8.44
Viscosity index	ASTM D2270	104
Flash Point °C	ASTM D92	225
Pour Point °C	ASTM D97	-30
Color	ASTM D1500	2.5
TBN mg KOH/g	ASTM D2896	5.5

Head of laboratory





Certificate of analysis

Certificate no.: **530**
Product: **TSP-15K**
Date of issue: 20.04.2023

Batch no.: **71**
Date of manufacture: 20.04.2023

Typical Characteristics

Name	Test method	Value
Appearance	VL-TA-P-051	Clear and Bright
Density @15°C, g/cm ³	ASTM D4052	0.890
Kinematic viscosity @40°C, mm ² /s ⁻¹	ASTM D445	157.10
Kinematic viscosity @100°C, mm ² /s ⁻¹	ASTM D445	15.22
Viscosity index	ASTM D2270	97
Flash Point °C	ASTM D92	245
Pour Point °C	ASTM D97	-21
Color	ASTM D1500	5

Head of laboratory





SAFETY DATA SHEET

according to Commission Regulation (EC) No 1907/2006,
Article 31, Annex II as amended

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Version / Revision: 1/-

Date: 20.06.2022.

Date of previous issue: -

G-ENERGY ANTIFREEZE SF12+ 40

Odour:	mild
Odour threshold:	not determined
pH:	8.5 (ASTM D1287)
Melting point/freezing point:	freezing point: $\leq -37^{\circ}\text{C}$ (ASTM D1177)
Boiling point/boiling range	$\geq 108^{\circ}\text{C}$ (ASTM D1120)
Flash point:	not determined
Evaporation rate:	not determined
Flammability (solid, gas):	not applicable (liquid)
Upper/lower ignition or explosion limit:	not determined, 1.8% – 12.8% for ethylene glycol
Vapour pressure:	not determined
Vapour density:	not determined
Relative density:	1071 kg/m ³ at 20°C (ASTM D5931)
Solubility:	soluble in water
Partition coefficient: n-octanol/water:	not available
Autoignition temperature:	not determined
Thermal decomposition:	not determined
Viscosity:	not determined
Explosive properties:	not explosive
Oxidizing properties:	not oxidising

9.2. Other information

No data available.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

No reactivity hazard is expected under recommended handling and storage conditions.

10.2 Chemical stability

Stable under recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under recommended handling and storage conditions.

10.4. Conditions to avoid

Avoid exposure to high temperatures, open flame, sparks, and other ignition sources, storing with incompatible substances.

