



G-Energy Expert G 10W-40, 15W-40, 20W-50

Description

Multigrade engine oils G-Energy Expert G 10W-40, 15W-40, 20W-50 are blended with progressive base stocks and thoroughly selected additives to deliver perfect anti-oxidation, anti-wear and anti-corrosive performance.

Benefits

- **Cleaning and dispersant properties**
Good cleaning ability prevents deposits formation and enhances engine efficiency; keeps contaminants and wear debris in suspension.
- **Viscosity-temperature characteristics**
Featuring high resistance to aging and reduced viscosity-temperature dependence the oils do not thicken and ensure good flow characteristics and circulation.
- **Seal elasticity**
Enhanced compatibility with engine seal materials maintains seal elasticity and prevents oil leakage.
- **Wear resistance**
Stable oil film in combination with high-efficiency wear-resistant additives maximizes engine longevity.

Applications

- Non-turbocharged gas and diesel engines in cars, light trucks and vans of domestic production, where the use of API SG/CD lubricants of SAE 10W-40, 15W-40, 20W-50 grades is recommended.
- The oils are approved for use in cars by AVTOVAZ and engines by Zavolzhsky Motorny Zavod.

Specifications and Approvals

G-Energy Expert G 10W-40, 15W-40, 20W-50 oils are approved by:

- AVTOVAZ, JSC

G-Energy Expert G 10W-40, 15W-40, 20W-50 oils comply with:

- API SG/CD
- Zavolzhsky Motorny Zavod, JSC



Typical Properties

G-Energy Expert G 10W-40, 15W-40, 20W-50

Viscosity		10W-40	15W-40	20W-50
• cSt @ 40°C	GOST 33	102	123	178
• cSt @ 100°C	GOST 33	14.9	14.6	18.5
VI	GOST 25371	153	133	116
Flash Point, COC, °C	GOST 4333	220	228	240
Pour Point, °C	GOST 20287	-39	-36	-30
Base Number, mg KOH/g	GOST 2896	6.0	6.0	6.0
Density @ 20°C kg/m ³	GOST 3900	872	880	878

Health and Safety

When used as directed, G-Energy Expert G 10W-40, 15W-40, 20W-50 oils have no adverse effects either on health or environment. Beyond normal hygiene no special precautions are required. Avoid contact with skin. Use protective gloves. In case of contact, flush immediately with water and soap. For more information please refer to the Safety Data Sheet.

Reduced Environmental Impact

Place used product in an appropriate waste disposal container. Dispose via a licensed waste disposal contractor. Do not discharge waste lubricant into groundwater, watercourses, soil, sewerage or drainage systems.



Manufacturer: Gazpromneft MLP CJSC, 6 a, Ozernaya str., Fryazino, Moscow region, 141191, Russia.

All products may not be available locally. For more information, contact your local sales office or visit www.gazpromneft-lubricants.com.

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly. © 2009 Gazpromneft Lubricants Ltd. All rights reserved.

04.04.2013

	<p style="text-align: center;">ALCO QUALITY ASSURANCE LABORATORY TEST REPORT</p> <p style="text-align: center;">Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21</p>	
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Company: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 2024814
Date of issue: 28/05/2024

Test sample

Product: EUROTEC TEP-15
Batch number: 2405814
Tank ID: T45.2

Manufacture date: 28/05/2024
Date of sampling: 28/05/2024
Date of analysis: 28/05/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm ² /s	ASTM D445	14.0-16.0	14.25	Pass
Viscosity index	-	ASTM D2270	Min. 90	100	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 185	246	Pass
Pour Point	°C	ASTM D97	Max. -25	-25	Pass
Color.	-	ASTM D1500	Test & Report	4.1	Pass
Density at 15 °C	g/cm ³	ASTM D4052	Test & Report	0.8872	Pass

ALCO QUALITY ASSURANCE LABORATORY accredited by AzAK for AZS ISO/IEC 17025:2020 at test laboratory.

Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

	<p style="text-align: center;">ALCO QUALITY ASSURANCE LABORATORY TEST REPORT Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21</p>	
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Notes & Instructions:

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance with the latest published versions. Minor changes may be made where they have no material impact on test results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
- This certificate is only valid in its entirety.
- This certificate shall not be reproduced except in full, without the written approval of the laboratory.

Authorised singnatory



Allahverdiyeva Aytan
Head of Laboratory



Isgandarli Nazrin
Lead Chemical Engineer





HEXOL AFT TORSION

GEAR OIL

PRODUCT DESCRIPTION

HEXOL ATF Torsion is outstanding quality transmission oil, for use in semi-automatic and automatic transmissions installations equipping industrial equipment and vehicles, in power steering systems.

Hexol ATF Torsion is formulated from mineral and synthetic base oils combined with specific additives, recommended for use throughout the year to automatic transmission systems equipping last generation industrial equipment and vehicles, or any transmissions where specified using a such oil.

PERFORMANCE FEATURES

- meets requirements according to GM Dexron III H, III G, Ford Mercon, Allison C-4, Allison TES 389, MB 236.1, Caterpillar TO-2, Voith G.607, Voith 55.6335, ZF-TE-ML 09/11/14, M2C 138-CJ, M2C 166-H, and other types of vehicles whose manufacturers recommend that classification;
- ensures a long life of components subject to wear;
- excellent oxidative stability, providing protection against corrosion or sediment deposits.

APPLICATION

- recommended for all semi-automatic and automatic transmission systems equipping last generation of industrial equipment and vehicles requiring an oil corresponding to GM Dexron III H and older, standard;
- recommended for hydraulic systems requiring anti-wear oils with good fluidity even at low temperatures.

PROPERTIES

Viscosity Grade SAE	20
Density at 15°C [kg/m ³]	840 – 860
Kinematic Viscosity at 40°C [mm ² /s]	32 – 46
Kinematic Viscosity at 100°C [mm ² /s]	7 - 8
Viscosity Index, min	150
Flash Point [°C]min	210
Pour Point [°C]max	-45
Colour	red

PACKAGING

<input type="checkbox"/> 0.4Kg	<input type="checkbox"/> 1Kg	<input type="checkbox"/> 4Kg	<input type="checkbox"/> 15Kg	<input type="checkbox"/> 180Kg		
<input type="checkbox"/> 0.23L	<input type="checkbox"/> 0.45L	<input type="checkbox"/> 0.5L	<input type="checkbox"/> 0.6L	<input type="checkbox"/> 0.9L	<input checked="" type="checkbox"/> 1L	<input type="checkbox"/> 3L
<input type="checkbox"/> 4L	<input checked="" type="checkbox"/> 5L	<input checked="" type="checkbox"/> 10L	<input checked="" type="checkbox"/> 20L	<input checked="" type="checkbox"/> 60L	<input checked="" type="checkbox"/> 208L	<input checked="" type="checkbox"/> 1000L

HEXOL INTERNATIONAL LTD

HEXOL LUBE SRL

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REV.
2019

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Уверење о квалитету Certificate of Analysis

Шифра производа/Product code:
18149/01

Датум/Date: 18.01.2023

Назив производа/Product name:

G-ENERGY T LINE C3 5W-30

Шаржа/Batch: 22460-2697

Ниво квалитета/Quality level: API SN/CF; ACEA C3-16; MB 229.51; VW 505.01/505.00; BMW Long Life 04; GM dexos 2

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	855,9	Наводи се Read
Кинематска вискозност на 40°C, mm ² /s Kinematic Viscosity at 40°C, mm ² /s	SRPS ISO 3104	76,67	Очитана Read
Кинематска вискозност на 100°C, mm ² /s Kinematic Viscosity at 100°C, mm ² /s	SRPS ISO 3104	12,25	11,0-12,5
Индекс вискозности Viscosity Index (IV)	SRPS ISO 2909	157	Типично 160 Typicaly 160
Испарљивост по Ноаку (1h, 250°C), m/m % Volatility Loss by Noack (1h, 250°C), m/m%	ASTM D 5800	10,9	≤ 10,0
Тачка паљења, COC, °C Flash Point, COC, °C	SRPS EN ISO 2592	230	≥ 215
Тачка течења, °C Pour Point, °C	SRPS ISO 3016	-42	≤ -36
Садржај воде и талога, v/v % Water and sediment Content, v/v %	SRPS ISO 3734	<0,05	≤ 0,05
Сулфатни пепео, m/m % Sulphur ash, m/m%	SRPS ISO 3987	0,42	≤ 0,8
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		10/0	Max 20/0
- Секвенца III на 24°C - III Sequence at 24°C		0/0	Max 10/0
TBN, mgKOH/g TBN, mgKOH/g	SRPS ISO 3771	6,6	Типично 7 Typicaly 7

Напомена/Note:

Производ испуњава захтеве стандарда G-ENERGY T LINE C3 5W-30.

Ово Уверење о квалитету је издато на основу извештаја о испитивању број: 20030120&20030064 Научно-технолошког центра, лабораторије Downstream Нови Сад

The product meets the requirements of the standard of G-ENERGY T LINE C3 5W-30

This Certificate of Analysis has been issued on the basis of the Test Report No: 20030120&20030064 from Scientific Tehnological Centar, Direction Laboratory Downstream Novi Sad.

Менаџер за квалитет производа и сировина
Product and raw materials quality manager

"Lubricants Balkans d.o.o."
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Уверење о квалитету
Certificate of Analysis

Шифра производа/Product code:
18149/01

Датум/Date: 18.01.2023

Ово Уверење о квалитету је валидно без потписа јер је потврђено електронски.
This certificate has been validated by electronic data procesing and is therefore not signed.

Произведено по поруџбини: "Lubricants Balkans d.o.o ", Владирира Поповића 38-40, 11000 Београд, Србија ; тел: +381 11 2058665
Manufactured under order of: Lubricants Balkans Ltd, 38-40 Vladimira Popovica str., Belgrade 11000, Serbia.; tel.: +381 11 2058665
Произвођач: НИС АД Нови Сад, Народног фронта 12, 21000 Нови Сад, Србија; тел: + 381 08 0000 8888
Manufacturer: NIS AD Novi Sad, 12 Narodnog fronta str., Novi Sad 21000, Serbia; tel.: + 381 08 0000 8888

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Уверење о квалитету Certificate of Analysis

Шифра производа/Product code:
18150/01

Датум/Date: 17.01.2023

Назив производа/Product name:

G-ENERGY T LINE C3 5W-40

Шаржа/Batch: 30063-3030

Ниво квалитета/Quality level: API SN/CF;ACEA C3;MB 229.51;VW 505.01/505.00;BMW Long Life 04; Porsche A40

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	856,8	Наводи се Read
Кинематска вискозност на 40°C, mm ² /s Kinematic Viscosity at 40°C, mm ² /s	SRPS ISO 3104	84,79	Очитана Read
Кинематска вискозност на 100°C, mm ² /s Kinematic Viscosity at 100°C, mm ² /s	SRPS ISO 3104	13,71	13,5-15,0
Индекс вискозности Viscosity Index (IV)	SRPS ISO 2909	166	≥ 150
Испарљивост по Ноаку (1h, 250°C), m/m % Volatility Loss by Noack (1h, 250°C), m/m%	ASTM D 5800	10,0	≤ 10,0
Тачка паљења, COC, °C Flash Point, COC, °C	SRPS EN ISO 2592	232	≥ 215
Тачка течења, °C Pour Point, °C	SRPS ISO 3016	<-42	≤ -36
Садржај воде и талога, v/v % Water and sediment Content, v/v %	SRPS ISO 3734	<0,05	≤ 0,05
Сулфатни пепео, m/m % Sulphur ash, m/m%	SRPS ISO 3987	0,72	≤ 0,8
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		10/0	Max 20/0
- Секвенца III на 24°C - III Sequence at 24°C		0/0	Max 10/0
TBN, mgKOH/g TBN, mgKOH/g	SRPS ISO 3771	7,6	≥ 7

Напомена/Note:

Производ испуњава захтеве стандарда G-ENERGY T LINE C3 5W-40.

Ово Уверење о квалитету је издато на основу извештаја о испитивању број: 20030083 Научно-технолошког центра, лабораторије Downstream Нови Сад

The product meets the requirements of the standard of G-ENERGY T LINE C3 5W-40

This Certificate of Analysis has been issued on the basis of the Test Report No: 20030083 from Scientific Tehnological Centar, Direction Laboratory Downstream Novi Sad.

Менаџер за квалитет производа и сировина
Product and raw materials quality manager

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Belgrade, 11000, Serbia



Уверење о квалитету
Certificate of Analysis

Шифра производа/Product code:
18150/01

Датум/Date: 17.01.2023

Ово Уверење о квалитету је валидно без потписа јер је потврђено електронски.
This certificate has been validated by electronic data procesing and is therefore not signed.

Произведено по поруџбини: "Lubricants Balkans d.o.o ", Владимира Поповића 38-40, 11000 Београд, Србија ; тел: +381 11 2058665
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Произвођач: НИС АД Нови Сад, Народног фронта 12, 21000 Нови Сад, Србија; тел: + 381 08 0000 8888
Manufacturer: NIS AD Novi Sad, 12 Narodnog fronta str., Novi Sad 21000, Serbia; tel.: + 381 08 0000 8888

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Уверење о квалитету
Certificate of Analysis

Шифра производа/Product code:
 18138/01

Датум/Date: 27.01.2023

Назив производа/Product name:

G-ENERGY SUPER 15W-40

Шаржа/Batch: 30175-3064

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	877,6	Наводи се Read
Кинематска вискозност на 40°C, mm ² /s Kinematic Viscosity at 40°C, mm ² /s	SRPS ISO 3104	111,9	Очитана Read
Кинематска вискозност на 100°C, mm ² /s Kinematic Viscosity at 100°C, mm ² /s	SRPS ISO 3104	14,83	14,0-15,5
Индекс вискозности Viscosity Index (IV)	SRPS ISO 2909	137	≥ 130
Испарљивост по Ноаку (1h, 250°C), m/m % Volatility Loss by Noack (1h, 250°C), m/m%	ASTM D 5800	10,9	≤ 15,0
Вискозност CCV (-20 °C), mPas Viscosity CCV (-20 °C), mPas	ASTM D 5293	5476	≤ 7000
Тачка паљења, COC, °C Flash Point, COC, °C	SRPS EN ISO 2592	226	≥ 215
Тачка течења, °C Pour Point, °C	SRPS ISO 3016	-33	≤ -24
Садржај воде и талога, v/v % Water and sediment Content, v/v %	SRPS ISO 3734	<0,05	≤ 0,05
Сулфатни пепео, m/m %,max Sulphur ash, m/m%,max	SRPS ISO 3987	0,74	1,0
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 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	5,8	≥ 5,3

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Уверење о квалитету
Certificate of Analysis

Шифра производа/Product code:
18138/01

Датум/Date: 27.01.2023

Напомена/Note:

Производ испуњава захтеве стандарда G-ENERGY SUPER 15W-40.

Ово Уверење о квалитету је издато на основу извештаја о испитивању број: 20030477 Научно-технолошког центра, лабораторије Downstream Нови Сад

The product meets the requirements of the standard of G-ENERGY SUPER 15W-40

This Certificate of Analysis has been issued on the basis of the Test Report No: 20030477 from Scientific Tehnological Centar, Direction Laboratory Downstream Novi Sad.

Менаџер за квалитет производа и сировина
Product and raw materials quality manager

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

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

Произведено по поруџбини: "Lubricants Balkans d.o.o.", Владимира Поповића 38-40, 11000 Београд, Србија ; тел: +381 11 2058665

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

Произвођач: НИС АД Нови Сад, Народног фронта 12, 21000 Нови Сад, Србија; тел: + 381 08 0000 8888

Manufacturer: NIS AD Novi Sad, 12 Narodnog fronta str., Novi Sad 21000, Serbia; tel.: + 381 08 0000 8888



HEXOL CA 2 STANDARD

GREASE

PRODUCT DESCRIPTION

HEXOL CA 2 Standard is a calcium-based general purpose, water resistant, lubricating grease. Produced from highly refined mineral oils and calcium thickener, with a well balanced additive package, it is suitable for lubricating points where, among water resistance, sealing ability is required, loads are moderate and the operating temperature does not exceed +60°C. Especially suitable for lubrication of pivots, joints in agriculture and industries where dust and water is typical.

PERFORMANCE FEATURES

- meets ISO 6743-9: L-X-BAHA 2; DIN 51502: K2C-20; NLGI 2 specifications;
- good water resistance;
- good lubricating characteristic;
- good sealing-ability;
- long-lasting corrosion protection.

APPLICATION

Suitable for lubricating points where, among water resistance, sealing ability is required and the operating temperature does not exceed +60°C. Recommended to be used with axles, joints, screw threads, small gear wheels and other mechanical parts exposed to water and dust.

PROPERTIES

Appearance	homogeneous
Dropping point [°C]	85
Penetration after 60 strokes at 25 °C [0,1 mm]	280
Corrosion at 100°C/24 h (steel)	pass
Corrosion at 60 °C/ 3 h (copper) [grade]	1
EMCOR test, distilled water [grade]	1

PACKAGING

<input checked="" type="checkbox"/> 0.4Kg	<input checked="" type="checkbox"/> 1Kg	<input checked="" type="checkbox"/> 4Kg	<input checked="" type="checkbox"/> 15Kg	<input checked="" type="checkbox"/> 180Kg		
<input type="checkbox"/> 0.23L	<input type="checkbox"/> 0.45L	<input type="checkbox"/> 0.5L	<input type="checkbox"/> 0.6L	<input type="checkbox"/> 0.9L	<input type="checkbox"/> 1L	<input type="checkbox"/> 3L
<input type="checkbox"/> 4L	<input type="checkbox"/> 5L	<input type="checkbox"/> 10L	<input type="checkbox"/> 20L	<input type="checkbox"/> 60L	<input type="checkbox"/> 208L	<input type="checkbox"/> 1000L

HEXOL INTERNATIONAL LTD



HEXOL CA G2 OPTIMUM

GREASE

PRODUCT DESCRIPTION

HEXOL Ca G2 OPTIMUM is a calcium-base lubricating grease, with adding 10% graphite, generally used water resistant product. Suitable for lubricating points where among water resistance the sealing ability is required and the operating temperature does not exceed +60°C. Especially suitable for lubrication of pivots, joints in agriculture and industry where dust is typical.

PERFORMANCE FEATURES

- meets ISO 6743-9: L-XBAHA 2; DIN 51502; KF2C-20; NLGI 2 specifications;
- excellent dynamic water resistance;
- good lubricating characteristic;
- good sealing-ability;
- long-lasting corrosion protection;
- temperature range: between -20°C and +60°C.

APPLICATION

Suitable for lubricating points where among water resistance and sealing ability is required and the operating temperature does not exceed +60°C.

Suitable for lubricating bearings operated at high speed and load.

PROPERTIES

Appearance	black, homogeneous
Dropping point [°C]	95
Penetration after 60 strokes at 25 °C [0,1 mm]	235
Corrosion at 60 °C/ 3 h (copper) [grade]	1b
Dynamic water - resistance at 79 °C [mass %]	2

PACKAGING

<input checked="" type="checkbox"/> 0.4Kg	<input checked="" type="checkbox"/> 1Kg	<input checked="" type="checkbox"/> 4Kg	<input checked="" type="checkbox"/> 15Kg	<input checked="" type="checkbox"/> 180Kg	<input type="checkbox"/> 1L	<input type="checkbox"/> 3L
<input type="checkbox"/> 0.23L	<input type="checkbox"/> 0.45L	<input type="checkbox"/> 0.5L	<input type="checkbox"/> 0.6L	<input type="checkbox"/> 0.9L	<input type="checkbox"/> 208L	<input type="checkbox"/> 1000L
<input type="checkbox"/> 4L	<input type="checkbox"/> 5L	<input type="checkbox"/> 10L	<input type="checkbox"/> 20L	<input type="checkbox"/> 60L		

HEXOL INTERNATIONAL LTD

Certificate of analysis

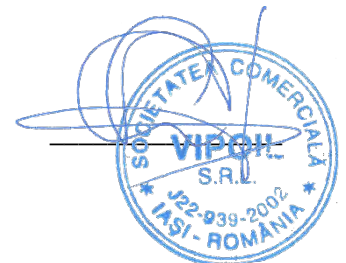
Certificate no.: **105**
Product: **MotoROil M10-G2k**
Date of issue: 30.01.2023
Date of sampling: 27.01.2023

Batch no.: **15**
Date of manufacture: 27.01.2023
Quantity: 24.00 mt

Typical Characteristics

Name	Test method	Value
Appearance	VL-TA-P-051	Clear and Bright
Density @15°C, g/cm ³	ASTM D4052	0.8882
Kinematic viscosity @40°C, mm ² /s ⁻¹	ASTM D445	101.6
Kinematic viscosity @100°C, mm ² /s ⁻¹	ASTM D445	11.57
Viscosity index	ASTM D2270	101
Flash Point °C	ASTM D92	244
Pour Point °C	ASTM D97	-27
Color	ASTM D1500	L2.5
TBN mg KOH/g	ASTM D2896	6.0

Head of laboratory



Product: MotoROil M10-G2k
Ref document: ST – 52 ED.1, REV. 2/2022
Date of issue: 30.01.2023

Certificate of conformity MotoROil M10-G2k

Supplier : SC VIPOIL SRL
Supplier Address : Chimiei nr. 14 street, Iasi County, Romania
Registration number at the Commerce Registry: J22 / 939 / 2022

VIPOIL S.R.L. as a producer registered at the Trade Register with No. J22 / 939 / 2002 with headquarters in Bd.Chimiei nr.14, Iasi 700293 Romania, we assure, guarantee and declare on our own responsibility, through the present document, that the product to which this declaration refers does not endanger life, health, safety at work, does not produce a negative impact on the environment and is in accordance with the specifications in the Safety Data Sheet.

The product complies with Regulation (EC) no. 765/2008 and Directive 2001/95/E, transposed into Romanian legislation by law no. 245/2004

Certificate of validity

The product MotoROil M10-G2k has a shelf life of 5 years from the date of manufacture, in compliance with the requirements for packaging, storage, transport and handling.

MotoROil M10-G2k is a motor oil formulated from high quality mineral oils with technologically advanced additives that ensure API CC performance level. Designed to provide effective lubrication of four-stroke, spark-ignition and compression engines with naturally aspirated or medium turbocharging, where the manufacturer recommends the use of an API CC oil according to the operating instructions

Hazard statements:

EUH 210 – Safety data sheet available on request

Precautionary statements:

P102 – Keep out of reach of children.

P501 - Dispose of contents / container to an approved waste disposal plant

S.C. VIPOIL S.R.L.,
Iasi, Bd, Chimiei, nr.14
Tel. 0232 254 153



Certificate of analysis

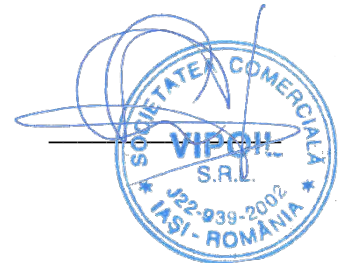
Certificate no.: **4304**
Product: **VMGZ**
Date of issue: 27.03.2024

Batch no.: 56
Date of manufacture: 27.03.2024

Typical Characteristics

Name	Test method	Value
Appearance	VL-TA-P-051	Clear and Bright
Density @15°C, g/cm ³	ASTM D4052	0.8473
Kinematic viscosity @40°C, mm ² /s ⁻¹	ASTM D445	20.88
Kinematic viscosity @100°C, mm ² /s ⁻¹	ASTM D445	4.54
Viscosity index	ASTM D2270	135
Flash Point °C	ASTM D92	205
Pour Point °C	ASTM D97	-52
Color	ASTM D1500	1.5

Head of laboratory



Product: VMGZ
Ref document: ST – 52 ED.1, REV. 2/2022
Date of issue: 16.02.2023

Certificate of conformity VMGZ

Supplier : SC VIPOIL SRL
Supplier Address : Chimiei nr. 14 street, Iasi County, Romania
Registration number at the Commerce Registry: J22 / 939 / 2022

VIPOIL S.R.L. as a producer registered at the Trade Register with No. J22 / 939 / 2002 with headquarters in Bd.Chimiei nr.14, Iasi 700293 Romania, we assure, guarantee and declare on our own responsibility, through the present document, that the product to which this declaration refers does not endanger life, health, safety at work, does not produce a negative impact on the environment and is in accordance with the specifications in the Safety Data Sheet.

The product complies with Regulation (EC) no. 765/2008 and Directive 2001/95/E, transposed into Romanian legislation by law no. 245/2004

Certificate of validity

The product VMGZ has a shelf life of 5 years from the date of manufacture, in compliance with the requirements for packaging, storage, transport and handling.

Hydraulic oil VMGZ high performance anti-wear hydraulic oils designed to satisfy a wide range of hydraulic equipment requirements. Formulated with high-quality mineral base oils and selected additives they provide very good anti-wear properties, rust and corrosion protection, oxidation resistance and anti-foam properties. The high viscosity indexes provide excellent low and high temperature properties for equipment that is subjected to a wide range of start-up and operating temperatures. They are designed for systems operating under moderate conditions where high levels of anti-wear protection are needed.

Hazard statements:

EUH 210 – Safety data sheet available on request

Precautionary statements:

P102 – Keep out of reach of children.

P501 - Dispose of contents / container to an approved waste disposal plant

S.C. VIPOIL S.R.L.,
Iasi, Bd, Chimiei, nr.14
Tel. 0232 254 153





Certificate of manufacturing

Date of issue: 29.03.2024
Invoice No.: ISVIPEX-24007
Invoice date: 29.03.2024

VIPOIL S.R.L. as a manufacturer registered at the Trade Register with No. J22 / 939 / 2002, VAT No. RO14112039 with headquarters in Bd.Chimiei nr.14, Iasi 700293 Romania, we assure, guarantee and declare on our own responsibility, through the present document, that the product mentioned below in this declaration has been produced by VIPOIL SRL at the manufacturing plant in Iasi, Romania.

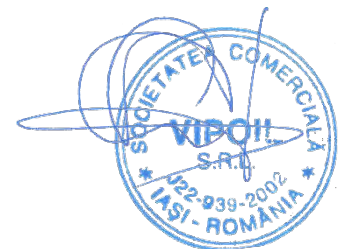
Safety Data Sheet available upon request.

The product complies with Regulation (EC) no. 765/2008 and Directive 2001/95/E, transposed into Romanian legislation by law no. 245/2004

Product Name : VMGZ

Place of Manufacture : Vipoil Factory, Iasi, Romania, EU

Place of Loading : Iasi, Romania, EU



TITAN Supersyn LONGLIFE SAE 5W-40

Ultra High Performance, fuel-economy engine oil for a variety of vehicles with or without extended service intervals. Optimum cold starting and lower oil consumption.

Description

Today's high performance engines do have a specific demand due to engine oil capability. Changes in fuels like using bio components and changes in engines design for lower fuel consumption and reduced emissions are leading to an evolving development of engine oils. TITAN Supersyn LONGLIFE SAE 5W-40 is a Ultra High Performance engine oil for high performance engines. It is thermal stable, reduces wear and can be used for extended drain intervals.

Application

TITAN Supersyn LONGLIFE SAE 5W-40 was developed to satisfy specifically the requirements of Mercedes Benz and BMW vehicles in long life service with a high fuel saving effect. Moreover TITAN Supersyn LONGLIFE SAE 5W-40 complies with the requirements of VW and many other car makers. TITAN Supersyn LONGLIFE SAE 5W-40 is miscible and compatible with conventional branded engine oils. However, mixing with other engine oils should be avoided in order to fully utilize the product's benefits. A complete oil change is recommended when converting to TITAN Supersyn LONGLIFE SAE 5W-40. For information on product safety and proper disposal please refer to the latest Material Safety Data Sheet.

Advantages/Benefits

- Good cold start properties and fast oil circulation in the whole engine at low temperatures
- Very low oil consumption
- Increased fuel economy
- High thermal stability
- Multi-purpose application for many cars and models
- For extended oil drain intervals at many OEM's approved, according their flexible service system

Specifications

- ACEA A3/B4
- API SN/SM

Approvals

- BMW LONGLIFE-01
- MB-APPROVAL 226.5
- MB-APPROVAL 229.5
- PORSCHE A40
- PSA B71 2296
- RENAULT RN0700/RN0710
- VW 502 00/505 00

FUCHS Recommendations

- API CF
- GM-LL-B-025

TYPICAL CHARACTERISTICS

Density at 15 °C	DIN 51757	0.855 g/ml
Flash Point, CoC	DIN ISO 2592	234 °C
Dynamic Viscosity at - 30°C	DIN 51398	6100 mPas
Kinematic Viscosity at 40°C	DIN 51562-1	85.0 mm ² /s
Kinematic Viscosity at 100°C	DIN 51562-1	14.0 mm ² /s
Viscosity Index	DIN ISO 2909	169

The information contained in this product information is based on the experience and know-how of FUCHS PETROLUB SE in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally-valid statements about the function of our products are not possible. Our products must not be used in aircrafts/spacecrafts or their components, unless such products are removed before the components are assembled into the aircraft/spacecraft. The information given in this product information represents general, non-binding guidelines. No warranty expressed or implied is given concerning the properties of the product or its suitability for any given application.

We therefore recommend that you consult a FUCHS PETROLUB SE application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

Our products undergo continuous improvement. We therefore retain the right to change our product program, the products, and their manufacturing processes as well as all details of our product information sheets at any time and without warning, unless otherwise provided in customer-specific agreements. With the publication of this product information, all previous editions cease to be valid.

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HEXOL TORSION 80W90

ULEI PENTRU TRANSMISIE

DESCRIERE PRODUS

HEXOL TORSION 80W90 este un ulei pentru transmisii, multigrad, de calitate superioară, recomandat a se folosi pe tot parcursul anului la diferențiale, cutii de transmisie și cutii de viteze cu acționare manuală de ultimă generație.

Formulat din uleiuri de bază cu aditivi de înaltă performanță cu proprietăți EP, anticoroziv, antioxidant, antiuzură, antispumant, satisface cerințele API Service GL-5, precum și cerințele tuturor fabricanților care recomandă utilizarea unui ulei de asemenea vâscozitate și performanțe sau inferioare.

CARACTERISTICI

- satisface cerințele API Service GL-5, precum și cerințele specificațiilor MIL-L-2105D, MAN 342 Type M-2, MB 235.2, Scania STO 1:0, Renault Tranself NFP(aka Tranself TRX), FORD M2C200-B M2C94-A, ZF TE-ML 05A,07A,12E,16B,16C,17B,19B, 21A., TATRA TDS 80/32;
- reduc frecarea metal pe metal a pinioanelor chiar și în timpul șocurilor de la pornire;
- reacționează cu suprafețele metalice pentru a preveni sudarea lor și pentru a reduce uzura;
- reduc coroziunea și oxidarea, chiar și în prezența umidității;
- excelentă stabilitate oxidativă ce reduce formarea acizilor, sedimentelor și lacului.
- nu spumează în timpul barbotării în transmisii;
- bună fluiditate la temperaturi scăzute.

DOMENIU DE UTILIZARE

- toate autovehiculele de pasageri, camioane, utilaje agricole, maritime și de construcții, în cutii de transmisie, diferențiale, sisteme de direcție sau orice alte utilaje la care constructorul recomandă folosirea unui lubrifiant cu vâscozitatea SAE 80w90 și API service GL-5 sau inferior;
- este recomandat a se utiliza pe tot parcursul anului.

PROPRIETĂȚI SPECIFICE

Grad de vâscozitate	SAE80W90
API Service	GL-5
Densitate la 15°C [kg/m ³] aprox	905
Vâscozitate cinematică la 100°C [mm ² /s]	14.6-18.5
Indice de vâscozitate min	98
Punct de inflamabilitate [°C] min	210
Punct de curgere [°C] max	-27

AMBALAJ

- | | | | | | | |
|--------------------------------|--|---|---|---|--|--------------------------------|
| <input type="checkbox"/> 0.4Kg | <input type="checkbox"/> 1Kg | <input type="checkbox"/> 4Kg | <input type="checkbox"/> 15Kg | <input type="checkbox"/> 180Kg | | |
| <input type="checkbox"/> 0.23L | <input type="checkbox"/> 0.45L | <input type="checkbox"/> 0.5L | <input type="checkbox"/> 0.6L | <input type="checkbox"/> 0.9L | <input checked="" type="checkbox"/> 1L | <input type="checkbox"/> 3L |
| <input type="checkbox"/> 4L | <input checked="" type="checkbox"/> 5L | <input checked="" type="checkbox"/> 10L | <input checked="" type="checkbox"/> 20L | <input checked="" type="checkbox"/> 60L | <input checked="" type="checkbox"/> 208L | <input type="checkbox"/> 1000L |

Gazpromneft Grease LX EP 1, 2

Многоцелевая смазка с противозадирным пакетом присадок (EP-присадок) на основе литиевого комплексного мыла для узлов трения, работающих в условиях высоких температур и сверхвысоких нагрузках. Применяются для удлинённых сроков замены в подшипниках металлургического оборудования, вентиляторов, электромоторов, вагонеток и роликов сушильных печей, в сухих и влажных секциях бумагоделательных машин, автоматических мойках и другом промышленном оборудовании в качестве универсальной смазки (NLGI 2) и для централизованных систем смазки (NLGI 1).

Преимущества

- Высокие эксплуатационные характеристики в диапазоне температур от -30 °С до +160 °С.
- Длительная работа без замены, отличные антикоррозионные свойства и прекрасная стойкость к окислению.
- Гарантируют высокоэффективную защиту от коррозии даже при работе в особо суровых условиях, таких как влага, холодная или горячая вода.
- Обладают великолепными уплотняющими свойствами, что позволяет защитить узлы трения от проникновения воды, загрязнений, пыли.
- Обладают высокой механической стабильностью, благодаря чему их можно применять для смазки подшипников, подвергающихся сильной вибрации.

Типичные физико-химические характеристики

Показатели	Метод	Gazpromneft Grease LX EP 2	Gazpromneft Grease LX EP 1
Соответствие стандарту	DIN 51502	КР 2 P-30	КР 1 P-30
Класс NLGI		2	1
Пенетрация с перемешиванием, 60 двойных тактов, 10 ⁻¹ мм	ASTM D217	265-295	310-340
Диапазон рабочих температур, °С		от -30 до +160	от -30 до +160
Цвет	Визуальный	Синий	Синий
Структура	Визуальный	Однородная	Однородная
Тип загустителя		Литиевое комплексное мыло	Литиевое комплексное мыло
Базовое масло		Минеральное	Минеральное
Вязкость базового масла при 40 °С, мм ² /с	ASTM D445	220	220
Содержание мыла, %	Расчетное	-	-
Температура каплепадения, °С	ASTM D566	>250	>250
Коррозия на медной пластинке, 24 часа при 120 °С	DIN 51811	1A	1A
Испытания на коррозию Етсог, дистиллированная вода	ASTM D6138	Пройдено	Пройдено
Износ на 4-шариковой машине трения, диаметр пятна износа, мм	ASTM D2266 DIN 51350 5	0,4	0,4
Нагрузка сваривания на 4-шариковой машине, Н	ASTM D2596 DIN 51350 4	3000	3000

Система менеджмента компании сертифицирована в соответствии с международными стандартами

ISO 9001



ISO 14001



ISO/TS 16949



OHSAS 18001





ПАСПОРТ ПРОДУКЦИИ № 204-20513

Топливо для реактивных двигателей марки РТ, высший сорт

ГОСТ 10227-88 с ИЗМ. 1-6

СНП 275-04001

Длина горючего 30010

Сила удара удара 11.45.13

Кодекс репертура (высота) 224

Средняя температура, тр. 261

Масса нетто 56.27.39

Датированная чистота 15.08.13

Дата выдачи паспорта 15.08.13



Свидетельство соответствия № С-011.0.002.01.0007
от 04.08.13, № 014.0174-12, выдано
ФГУП «СТАНДАРТ»

ИЗМ. 1-6

ИЗМ. 1-6

ИЗМ. 1-6

ИЗМ. 1-6

ИЗМ. 1-6

Свидетельство о соответствии
технических условий, подготовленное на
основании информации от ИС.

№	Наименование показателей	Нормы по ТУ	Нормы по ГОСТ 10227-88 с ИЗМ. 1-6	Фактические значения	Методы испытаний
1	Плотность при 20 гр С, г/см ³		не менее 775	775	ГОСТ 3900
2	Температура начала перегрева, гр С		не менее 175	149	ГОСТ 2177
	- 50 % перегревается при температуре, гр С	не выше 220	не выше 175	165	ГОСТ 2177
	- 60 % перегревается при температуре, гр С		не выше 220	182	ГОСТ 2177
	- 90 % перегревается при температуре, гр С	не выше 280	не выше 270	215	ГОСТ 2177
	- 95 % перегревается при температуре, гр С		не выше 280	230	ГОСТ 2177
	- Степень от разгона, %	не норм	не более 1,5	1,0	ГОСТ 2177
	- Потери от разгона, %	не норм	не более 1,5	0,5	ГОСТ 2177
3	Вязкость кинематическая при 20 гр С, мм ² /с		не менее 1,25	1,44	ГОСТ 33
4	Кислотность, мг/100 г топлива при температуре минус 20 гр С	не более 16	не более 8	3,2	ГОСТ 33
5	Теплота сгорания низшая, кДж/кг		не менее 43120	43 272	ГОСТ 11063
6	Высота выходящего пламени, мм	не менее 20	не менее 25	25	ГОСТ 4138
7	Кислотность, мг КОН/100 см ³		не более 0,7	0,4	ГОСТ 1983
8	Водяное число, г воды/100 г топлива		не более 0,5	0,2	ГОСТ 2870
9	Температура начала кристаллизации, гр С	не ниже 28	не ниже 28	42	ГОСТ 4136
10	Температура начала кристаллизации, гр С	не ниже минус 90	не выше минус 50	ниже 59	ГОСТ 5866
	Термоокислительная стабильность в статических условиях при 150 гр С - концентрация осадка, мг/100 см ³		не более 0	1,0	ГОСТ 11802
	- конденсат растворенная смола, мг/100 см ³		не более 50	10	ГОСТ 11802
	- конденсат нерастворенная смола, мг/100 см ³		не более 3,	0,0	ГОСТ 11802

№	Наименование показателей	Нормы по ТР	Нормы по ГОСТ 10227-86 с ИЗМ. 1-8	Фактические значения	Методы испытаний
12	Объемная доля дрожжевых клеток, %	не более 25	не более 20	12	ГОСТ 10227
13	Содержание влаги, % (100 г)	не более 7	не более 4	7	ГОСТ 10227
14	Вязкость при 20°C, Па·с	не более 0,1	не более 0,10	0,10	ГОСТ 10227
15	Вязкость при 20°C, Па·с	не более 0,01	не более 0,01	0,01	ГОСТ 10227
16	Вязкость при 20°C, Па·с		не более 0,01	0,01	ГОСТ 10227
17	Вязкость при 20°C, Па·с		не более 0,01	0,01	ГОСТ 10227
18	Вязкость при 20°C, Па·с		не более 0,01	0,01	ГОСТ 10227
19	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
20	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
21	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
22	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
23	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
24	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
25	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
26	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
27	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
28	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
29	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
30	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
31	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
32	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
33	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
34	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
35	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
36	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
37	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
38	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
39	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
40	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
41	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
42	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
43	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
44	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
45	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
46	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
47	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
48	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
49	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227
50	Содержание влаги, % (100 г)		не более 0,01	0,01	ГОСТ 10227

Примечание:

— Актуальность Аттестата АТУ 2018107-05, % вал. 100%

— Проверочная база МБ, % вал. 100%

Заявление: Качество продукции соответствует ГОСТ 10227-86 с ИЗМ. 1-8 в техническому регламенту ЮТ, требованиям безопасности и санитарному законодательству, действующему в Республике Беларусь, и требованиям к качеству продукции, установленным в соответствии с МЗУ.

Изготовитель гарантирует соответствие качества продукции требованиям действующего законодательства в Республике Беларусь при соблюдении потребителем условий соответствия маркировки.

Исполнитель: И.И. Козлов / Главный директор — главный инженер

ООО «ЛУКОИЛ-Белорусстандарт» / Б.И. Руденко

Начальник ИЛ: И.И. Козлов

Е.Л. Козлов

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И.И. Козлов



HEXOL LI EP2 SUPREME

GREASE

PRODUCT DESCRIPTION

HEXOL LI EP2 SUPREME is a high performance lithium-base lubricating grease generally used as a multi purpose product. It is water resistant, ensuring a good lubrication and corrosion protection. The grease is produced from highly refined mineral oil and lithium soap, it is resistant to extreme pressure conditions, containing EP, anti-corrosion, anti-wear, and anti-oxidant additives providing low wear and friction working ideally in temperatures situated between -30°C and 120°C.

PERFORMANCE FEATURES

- meets ISO 6473-9: L-XCCEB 2, DIN 51502: KP2K-30, NLGI-2 specifications;
- water resistance;
- low friction;
- very good corrosion protection;
- excellent mechanical stability.

APPLICATION

- is universally applicable in the automotive, agricultural and industrial fields;
- suitable for sliding and rolling bearings, wheel bearings of cars and other high loaded surfaces working at normal temperature range;
- can be used in central lubricating systems where NLGI 2 consistency grade is recommended.

PROPERTIES

Base Oil Viscosity at 40°C [mm ² /s]	180
Dropping point °C	195
Penetration after 60 strokes at 25°C (0.1mm)	280
Four ball test, weld load (N)	3000
Four ball test 60 sec/1000N wear diameter (mm)	0.70
Oxidation stability at 100 °C / 100 h pressure drop [kPA]	20
Corrosion at 100°C/24 h (steel)	pass
Copper corrosion (100°C, 24h) [grade]	1
EMCOR test [grade]	0
Dynamic water – resistance at 79°C [% (m/m)]	4
Flow pressure at -20°C [mbar]	700

PACKAGING

<input checked="" type="checkbox"/> 0.4Kg	<input checked="" type="checkbox"/> 1Kg	<input checked="" type="checkbox"/> 4Kg	<input checked="" type="checkbox"/> 15Kg	<input checked="" type="checkbox"/> 180Kg		
<input type="checkbox"/> 0.23L	<input type="checkbox"/> 0.45L	<input type="checkbox"/> 0.5L	<input type="checkbox"/> 0.6L	<input type="checkbox"/> 0.9L	<input type="checkbox"/> 1L	<input type="checkbox"/> 3L
<input type="checkbox"/> 4L	<input type="checkbox"/> 5L	<input type="checkbox"/> 10L	<input type="checkbox"/> 20L	<input type="checkbox"/> 60L	<input type="checkbox"/> 208L	<input type="checkbox"/> 1000L

HEXOL INTERNATIONAL LTD

NISOTEC 2T

NISOTEC 2T is economical mineral oil for lubrication of two-stroke gasoline engines with air-cooling. Used for lubrication old generation of motorcycles, motor scooters, agricultural machines, motor saws, pumps and other low capacity engines (typically below 50cm³), where extra reduced smoke emission is not required. Apply mixed with fuel, in a ratio recommended by engine manufacturer. Performance features and benefits:

- Good lubrication of engine parts that minimizes wear
- Reduced formation of deposits on spark plugs to protect spark plugs
- Fully and instant mixing with fuel

Performance Levels: SRPS ISO 6743-15 (L-EGC), SRPS ISO 13738 (L-EGC), API TC, JASO-FC

Characteristics

<i>Properties</i>	<i>Units</i>	<i>Typical Values</i>	<i>Methods</i>
Colour	-	Red	Visual
Density at 15°C	g/cm ³	0.88	ASTM D 4052
Kinematic Viscosity at 100°C	mm ² /s	9	SRPS ISO 3104
Flash Point	°C	100	SRPS EN ISO 2719
Pour Point	°C	<-18	SRPS ISO 3016
Sulphated ash	% m/m	0.08	SRPS ISO 3987

Storage and handling instructions

Store in the original container, in dry well ventilated area. Protect from direct atmospheric influences. Follow storing and handling instructions given in SDS.

Packaging

<i>0.1L</i>	<i>0.25L</i>	<i>0.5L</i>	<i>1L</i>	<i>2L</i>	<i>4L</i>	<i>10L</i>	<i>60L</i>	<i>180KG</i>	<i>IBC</i>	<i>AC</i>
		X20						X		

NISOTEC AUTOLINE PS SAE 10W-40

NISOTEC AUTOLINE PS SAE 10W-40 is universal semi synthetic, multigrade, high-performance engine oil intended for lubricating all types of modern gasoline and diesel engines of passenger cars and light commercial vehicles. Especially adapted to the requirements of the engine with direct injection. It is recommended for gasoline engines with or without catalytic converters and diesel engines with direct injection, with or without turbocharger and common rail. It is designed for use in the most severe climatic conditions for all types of urban, inter-city driving, and driving on motorways.

Features and benefits:

- Outstanding wear protection
- Excellent engine cleanliness
- Outstanding high temperature protection
- Low temperature protection and easy winter starting

Performance Levels: API SL/CF, ACEA A3/B3-16, ACEA A3/B4-16, MB-229.1, VW 501.01/505.00

Characteristics

Properties	Units	Typical Values	Methods
Density at 15°C	kg/m ³	874	SRPS EN ISO 3675
Kinematic viscosity at 100°C	mm ² /s	14.5	SRPS ISO 3104
Apparent viscosity at -25°C (CCV)	mPas	6250	ASTM D5293
Index viscosity	°C	150	SRPS EN ISO 2592
Flash Point, COC	°C	220	SRPS ISO 3016
Pour Point	mgKOH/g	-33	SRPS ISO 3771
TBN	%w/w	10	SRPS ISO 3987
Evaporation loss (Noack)	%w/w	10	ASTM D5400
Foaming, max seq I/ II/ III	mL/mL	10/0, 50/0, 10/0	SRPS ISO 6247

Storage and handling instructions

Store in the original container in cold, dry, properly ventilated area. Follow storing and handling instructions given in SDS.

Packaging

0.1L	0.25L	0.5L	1L	2L	4L	10L	60L	180KG	IBC	AC
			X16		X4		X	X	X	

"ALCO" LLC

"ALCO" Limited Liability Company

Full owner of "AMINOL" lubricants factory located in "Sumgait Chemical Industrial Park" (SCIP)

QUALITY CERTIFICATE № 2022121278

MAXIMUM T 1500

Batch №: 22121278

Tank №: T61.1

№	Parameter	Test Method	Limit	Result
1	Appearance	Visual	Bright & Clear	Bright & Clear
2	Kinematic viscosity, mm ² /s, max -at 40°C -at 50°C -at 100°C	ASTM D 445	- 8,0 -	10,42 7,58 2,56
3	Closed Cup Flash Point, °C, min	ASTM D 93	135	144
4	Pour Point, °C, max	ASTM D 97	-45	-45
5	Color, max	ASTM D 1500	1,5	0,5
6	Water contents, %	ГОСТ 2477	None	None
7	Mechanical impurities, %, max	ГОСТ 6370	None	None
8	TAN, mg KOH/g, max	ASTM D 664	0,01	0,007
9	Dielectric dissipation factor at 90°C, %, max	IEC 60247	0,50	0,20
10	Dielectric Breakdown Voltage, kV, min	IEC 60156	30	44,5
11	Density at 20°C, g/cm ³ , max	ASTM D 4052	0,885	0,8819

* The product meets all technical specifications.

Date: 12.12.2022

Head of Laboratory



Yusiphova Mathilda

RENOLIT EP GREASES

High quality, multi-use EP greases

Description

RENOLIT EP 1 and RENOLIT EP 2 greases are multi-purpose lubricants suitable for use in high pressure greasing equipment. Their pumpability ensures regular and easy flow through the fine bore pipes used in automatic systems. RENOLIT EP 2 may be used as a general industrial and automotive lubricant. It can be used for product rationalisation for many applications. RENOLIT EP 2 Complies with British Timken Recommendations 2891

RENOLIT EP 0 grease will provide for an efficient level of pumpability in small bore systems, which means that even when the point of application is remote from the motive source there will be no significant pressure differential to overcome. This factor is critical when selecting the correct lubricant to be supplied via conventional and modern automatic lubrication systems.

RENOLIT EP 00 is a semi-fluid grease also recommended for automatic greasing units and as an alternative to industrial gear oils to prevent leakage.

RENOLIT EP 000 is a semi-fluid grease recommended for the lubrication of commercial vehicles and plant served by automatic greasing units. It may also be recommended as an alternative to industrial gear oils in enclosed gearboxes where high leakage rates are experienced.

Application

RENOLIT EP GREASES are high specification, general purpose greases suitable for many industrial and automotive applications.

Advantages/Benefits

- RENOLIT EP GREASES are lead-free
- Five grades available in the range allowing selection of the appropriate grade for the equipment in use
- RENOLIT EP GREASES contain extreme pressure additives to allow use in heavy load conditions
- Formulated to contain anti-rust additives to protect against corrosion
- Anti-oxidants included to prolong product life

NOTE

RENOLIT EP GREASES are available in five NLGI consistencies 000, 00, 0,1 and 2. The structure of the products is based upon a conventional lithium metallic soap, which will ensure compatibility with other lithium greases of a similar nature. RENOLIT EP GREASES contain extreme pressure, anti-rust and anti-oxidation additives.

Shelf Life

The minimum shelf life is 36 months if the product is properly stored between 0°C and 40°C in its unopened original container in a dry place. The indication of a minimum shelf life does not include any guarantee of durability.



April 2013 GDUK Page 1 of 2

CHARACTERISTICS: RENOLIT EP GREASES

Characteristics	Unit	RENOLIT RENOLIT RENOLIT RENOLIT RENOLIT					Test Method
		EP 000	EP 00	EP 0	EP 1	EP 2	
Colour		Translucent brown					
Texture		Smooth					
Thickening agent		Lithium soap					
Drop point	°C	Not Applicable	177 min.	182 min.	177 min.	ISO2176	
Worked penetration	1/10 mm	445-475	400-430	355-385	310-340	265-295	ISO2137
DIN Classification		KP 000 K-30	KP 00 K-30	KP 0 K-30	KP 1 K-30	KP 2 K-20	DIN 51 825
ISO Classification		L-XBBEB 000	L-XBBEB 00	L-XCBEB 0	L-XCCEB 1	L-XBCEB 2	ISO 6743-9
NLGI grade		000	00	0	1	2	
Water content	%wt	0.2 max.					IP74
Acidity on base grease as oleic	%wt	0.2 max.					IP37
Alkalinity on base grease as LiOH	%wt	0.2 max.					IP37
Oil separation 7 days at 40°C	%wt	Not Applicable		9.0	7.0 max.		IP121
Oxidation stability maximum pressure drop 100 hours	bar	0.7					IP142
Dynamic anti-rust test distilled water		Not Applicable		0,0	0,0		IP220
Copper corrosion 24 hr at 40°C		Passes					IP112
4 ball weld load	N	2453					IP239
Sphere of use	°C	-30 to +100	-30 to +100	-30 to +110	-30 to +120	-25 to +130	

Fluid Component

Type	Highly refined mineral oil						
Kinematic viscosity							ISO3104
at 40°C	mm ² /s	230.0	230.0	230.0	230.0	230.0	
at 100°C	mm ² /s	17.50	17.50	17.50	17.50	17.50	



SYNTHETIC REFRIGERATION LUBRICANTS

DESCRIPTION

NYCOLUBE 7000 series is composed of synthetic lubricants based on neopolyol esters.

They have been specifically designed for use in refrigeration systems working with hydrofluorocarbon (HFC) refrigerants (R134a, R404a, R407c, R410a, R507, R23...), traditional mineral oils and alkyl benzene based lubricants being not compatible with these refrigerants.

Their excellent thermal and hydrolytic stability, their miscibility at low temperature with HFC and their very good lubricity deliver excellent performance levels and energy efficiency to refrigeration systems.

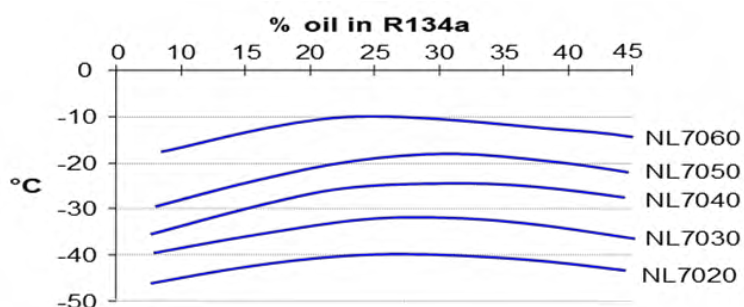
NYCOLUBE 7000 oils are available in several viscosity grades to suit a wide range of applications. Other grades can be developed to meet the requirements of specific refrigeration systems.

Summary of NYCOLUBE 7000 series

DESIGNATION	ISO VG	VISCOSITY @ 40°C mm ² /s	VISCOSITY @ 100°C mm ² /s	VISCOSITY INDEX	ACID NUMBER mg KOH/g	POUR POINT °C	FLASH POINT COC	WATER CONTENT ppm	MAIN APPLICATIONS
NYCOLUBE 7030	32	32	5.85	127	0.02	-57	254	< 50	Refrigeration compressors working with HFC refrigerants
NYCOLUBE 7040	46	46	7.25	119	0.02	-57	254	< 50	
NYCOLUBE 7050	68	68	9.1	109	0.02	-48	262	< 50	
NYCOLUBE 7060	100	95	11	98	0.01	-30	270	< 50	Reciprocating for the viscosity grade up to 68
NYCOLUBE 7461	100	103	11.2	94	0.05	-27	270	< 50	Screw compressor for the higher viscosities grades
NYCOLUBE 7471	150	150	16.0	112	0.05	-30	275	< 50	
NYCOLUBE 7481	220	232	23.3	124	0.06	-30	270	< 50	

Miscibility with R134a

The miscibility curves of NYCOLUBE 7020 to 7060 have been established. Lubricant and refrigerant are totally miscible above curves, and separate into 2 phases underneath the curves.



The values above are typical values. They do not constitute any contractual commitment.

Sales specifications are available on request. The present technical data sheet replaces all the previous edition.



VIPOIL Industrial I20-A

Ulei industrial

Ulei industrial fără aditivi pentru lubrifierea generală a instalațiilor industriale. Fabricat din uleiuri de bază rafinate cu solvent, asigură eficiența sistemului pentru mașinile industriale și mecanismele care nu necesită protecție suplimentară împotriva oxidării sau coroziunii.

APLICATII

Conceput ca fluid de lucru in sistemele generale ale instalatiilor industriale.

NORME

ISO VG 32
ISO 11158 HH

Cincinnati P-68

SPECIFICATII TEHNICE

Proprietate		Metoda	Valoare
Densitate @ 15°C	kg/m ³	ASTM D4052	875
Viscozitate Cinematica @ 40°C	mm/s ²	ASTM D445	32
Viscozitate Cinematica @ 100°C	mm/s ²	ASTM D445	5,3
Indice de viscozitate		ASTM D2270	96
Punct de inflamabilitate	°C	ASTM D92	215
Punct de curgere	°C	ASTM D97	-15

*Aceste caracteristici sunt tipice productiei actuale. Valorile proprietatilor pot varia in timp.

Acest produs nu provoaca efecte adverse atunci cand este folosit in scopurile propuse. Fisa cu Date de Securitate este disponibila la cerere.

VIPOIL SRL

14 Bulevardul Chimiei, Iasi, 700293 Romania
Tel +4 (0) 232-254-153

www.vipoil.ro



VIPOIL MotoROil M-8B

Ulei motor

Uleiul de motor conceput din uleiuri minerale de calitate superioară cu aditivi avansați tehnologic care asigură nivelul de performanță API CB.

APLICATII

Conceput asigură o lubrifiere eficace a motoarelor în patru timpi, cu aprindere prin scânteie și prin comprimare cu admisie naturală sau cu supraalimentare medie, unde producătorul recomandă utilizarea unui ulei API CB conform instrucțiunilor de exploatare

BENEFICII

Formularea pe baza de uleiuri rafinate de calitate înaltă și un pachet de aditivi performant, asigură o stabilitate termică bună, protecție sporită împotriva uzurii și a formării depunerilor, protecție îmbunătățită împotriva coroziunii și o fluiditate bună la temperaturi scăzute.

NORME

SAE 20
API CB

SPECIFICATII TEHNICE

Proprietate		Metoda	Valoare
Densitate @ 15°C	kg/m ³	ASTM D4052	885
Viscozitate Cinematica @ 40°C	mm/s ²	ASTM D445	62
Viscozitate Cinematica @ 100°C	mm/s ²	ASTM D445	8,2
Indice de viscozitate		ASTM D2270	100
Punct de inflamabilitate	°C	ASTM D92	230
Punct de curgere	°C	ASTM D97	-32
TBN		ASTM D2896	6

*Aceste caracteristici sunt tipice producției actuale. Valorile proprietăților pot varia în timp.

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