

## CERTIFICATE OF ANALYSIS

Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21

**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 2023081137  
**Date of issue:** 01/08/2023

### Test sample

**Product:** MAXIMUM SUPER 5W30 SN/CF  
**Material ID:** M0000145  
**Date of sampling:** 01/08/2023

**Manufacture date:** 01/08/2023  
**Batch number:** 23081137  
**Tank ID:** T41.1

### Test result

**Date of analysis:** 01/08/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C,	mm <sup>2</sup> /s	10.49	9.3-12.5	ASTM D445	Pass
Viscosity index	-	150	Min. 140	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	232	Min. 210	ASTM D92	Pass
Pour Point	°C	-35	Max. -35	ASTM D97	Pass
Color	-	1.3	Test & Report	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8626	Test & Report	ASTM D4052	Pass

**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.

**Notes & Instructions:**

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**Authorised singnatory**



**Matilda Yusifova**  
**Technologist**



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**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 2023081315  
**Date of issue:** 28/08/2023

### Test sample

**Product:** MAXIMUM INDUSTRIAL HYDRAULIC I-20A  
**Material ID:** M000197  
**Date of sampling:** 28/08/2023

**Manufacture date:** 28/08/2023  
**Batch number:** 23081315  
**Tank ID:** RT-3

### Test result

**Date of analysis:** 28/08/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	5.11	4.5-5.5	ASTM D445	Pass
Kinematic viscosity at 40 °C	mm <sup>2</sup> /s	29.78	Test & Report	ASTM D445	Pass
Viscosity index	-	99	Min. 90	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	225	Min. 190	ASTM D92	Pass
Pour Point	°C	-13	Max. -10	ASTM D97	Pass
Color	-	0.3	Max. 1.0	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8670	Test & Report	ASTM D4052	Pass

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

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Technologist





Form No.: 003-EN  
Issue date: 10.12.2022

## CERTIFICATE OF ANALYSIS

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**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 2023101601  
**Date of issue:** 12/10/2023

### Test sample

**Product:** MAXIMUM HYDRO MAX ISO 46  
**Material ID:** M0000197  
**Date of sampling:** 12/10/2023

**Manufacture date:** 12/10/2023  
**Batch number:** 23101601  
**Tank ID:** T41.1

### Test result

**Date of analysis:** 12/10/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 40 °C	mm <sup>2</sup> /s	45.22	41.4-50.6	ASTM D445	Pass
Viscosity index	-	100	Min. 90	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	236	Min. 185	ASTM D92	Pass
Pour Point	°C	-27	Max. -24	ASTM D97	Pass
Color	-	1.3	Test & Report	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8764	Test & Report	ASTM D4052	Pass

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

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**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 2023101633  
**Date of issue:** 02/10/2023

### Test sample

**Product:** MAXIMUM LITOL 24  
**Date of sampling:** 02/10/2023

**Manufacture date:** 02/10/2023  
**Batch number:** 23101633  
**Tank ID:** T42.1

### Test result

**Date of analysis:** 02/10/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Green unisex	Light yellow to brown unisex	Visual	Pass
Dropping Point	°C	>220	Min. 185	ASTM D2265	Pass
Penetration at 250 °C	mm <sup>-1</sup>	246	220-250	ASTM D217	Pass
Colloidal Stability	%	3.9	Max. 12	ASTM D6184	Pass
Strength limit, at -200C, At -800C	Pa	681 222	500-1000 Min. 200	ГОСТ 7143	Pass
Mechanical impurities	%	0.02	Max. 0.05	ГОСТ 6479	Pass

**Shelf life:** 3 years from the date of manufacture of the product if proper storage conditions are followed.

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**Matilda Yusifova**  
**Technologist**



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**Deutsches  
Patent- und Markenamt**  
Register number:  
30 2021 112 828

Quality Assurance Laboratory

📍 Address: 1, Kimyachilar st., SCIP., Sumgait, Azerbaijan, AZ5002

✉ Email: lab@azlub.com

## CERTIFICATE OF ANALYSIS

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**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 2023101715  
**Date of issue:** 26/10/2023

### Test sample

**Product:** MAXIMUM TAP-15B SAE 90 GL-3  
**Material ID:** M0000186  
**Date of sampling:** 26/10/2023

**Manufacture date:** 26/10/2023  
**Batch number:** 23101715  
**Tank ID:** T41.3

### Test result

**Date of analysis:** 26/10/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	15.73	13.5-18.5	ASTM D445	Pass
Viscosity index	-	92	Min. 90	ASTM D2270	Pass
Water content	%	None	Max 0.05	ASTM D95	Pass
Flash Point, COC	°C	246	Min. 185	ASTM D92	Pass
Pour Point	°C	-20	Max. -20	ASTM D97	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8897	Test & Report	ASTM D4052	Pass

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

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### Notes & Instructions:



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**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 2023111813  
**Date of issue:** 10/11/2023

### Test sample

**Product:** MAXIMUM INDUSTRIAL HYDRAULIC I-40A  
**Material ID:** T0000174  
**Date of sampling:** 10/11/2023

**Manufacture date:** 10/11/2023  
**Batch number:** 23111813  
**Tank ID:** T41.2

### Test result

**Date of analysis:** 10/11/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	66.63	61.0-75.0	ASTM D445	Pass
TAN	mg KOH/g	0.003	Max. 0.05	ASTM D974	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	240	Min. 220	ASTM D92	Pass
Pour Point	°C	-24	Max. -15	ASTM D97	Pass
Color	-	1.8	Max. 3.0	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8815	Max. 0.900	ASTM D4052	Pass

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

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**From: ALCO LLC**  
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AZ1095, Baku, Azerbaijan

**Certificate No.:** 2023121989  
**Date of issue:** 08/12/2023

### Test sample

**Product:** MAXIMUM TURBO MAX 10W40 CI-4/SL  
**Material ID:** M0000150  
**Date of sampling:** 08/12/2023

**Manufacture date:** 08/12/2023  
**Batch number:** 23111842  
**Tank ID:** T41.1

### Test result

**Date of analysis:** 08/12/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	14.49	12.5-16.3	ASTM D445	Pass
Viscosity index	-	145	Min. 125	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	230	Min. 210	ASTM D92	Pass
Pour Point	°C	-35	Max. -35	ASTM D97	Pass
Color	-	2.0	Test & Report	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.87	Test & Report	ASTM D4052	Pass

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

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**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 2023111843  
**Date of issue:** 15/11/2023

### Test sample

**Product:** MAXIMUM TURBO MAX 15W40 CI-4/SL  
**Material ID:** M0000164  
**Date of sampling:** 15/11/2023

**Manufacture date:** 15/11/2023  
**Batch number:** 23111843  
**Tank ID:** T41.3

### Test result

**Date of analysis:** 15/11/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	14.37	12.5-16.3	ASTM D445	Pass
Viscosity index	-	134	Min. 125	ASTM D2270	Pass
Water content	%	None	Max 0.05	ASTM D95	Pass
Flash Point, COC	°C	230	Min. 210	ASTM D92	Pass
Pour Point	°C	-35	Max. -35	ASTM D97	Pass
Color	-	2.4	Test & Report	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8790	Test & Report	ASTM D4052	Pass

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**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 20230122011  
**Date of issue:** 07/12/2023

### Test sample

**Product:** MAXIMUM TAD 17  
(85W90 GL-5)  
**Material ID:** M000269  
**Date of sampling:** 07/12/2023

**Manufacture date:** 07/12/2023  
**Batch number:** 23122011  
**Tank ID:** T41.2

### Test result

**Date of analysis:** 22/08/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	18.68	Min. 17.50	ASTM D445	Pass
Viscosity index	-	95	Min. 95	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	234	Min. 200	ASTM D92	Pass
Pour Point	°C	-30	Max. -30	ASTM D97	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8935	Test & Report	ASTM D4052	Pass

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**From: ALCO LLC**  
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AZ1095, Baku, Azerbaijan

**Certificate No.: 2023122031**  
**Date of issue: 13/12/2023**

### Test sample

**Product:** MAXIMUM M10G2K 30 CC  
**Material ID:** M00056  
**Date of sampling:** 13/12/2023

**Manufacture date:** 13/12/2023  
**Batch number:** 23122031  
**Tank ID:** T41.1

### Test result

**Date of analysis:** 13/12/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C, min.	mm <sup>2</sup> /s	10.92	10.5-11.5	ASTM D445	Pass
Viscosity index	-	93	Min. 85	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	254	Min. 210	ASTM D92	Pass
Pour Point	°C	-18	Max. -15	ASTM D97	Pass
Color, with a dilution of 15:85, units of the CNT	-	0.5	Max. 4.0	ГОСТ 20284	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8880	Max. 0.905	ASTM D4052	Pass

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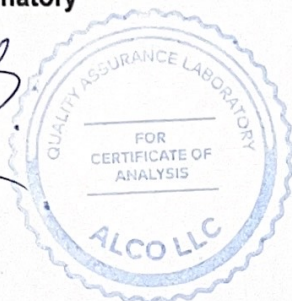
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**From: ALCO LLC**  
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AZ1095, Baku, Azerbaijan

**Certificate No.:** 2023122042  
**Date of issue:** 14/12/2023

### Test sample

**Product:** MAXIMUM M8M 20W20  
**Date of sampling:** 14/12/2023

**Manufacture date:** 14/12/2023  
**Batch number:** 23122042  
**Tank ID:** T41.4

### Test result

**Date of analysis:** 14/12/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	6.882	5.6-9.3	ASTM D445	Pass
Viscosity index	-	109	Min. 93	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	222	Min. 210	ASTM D92	Pass
Pour Point	°C	-33	Max. -30	ASTM D97	Pass
Color	-	1.2	Test & Report	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8736	Max. 0.905	ASTM D4052	Pass

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

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**Technologist**







## ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

**Заявитель** Общество с ограниченной ответственностью «СТРЭКСТЭН» (ООО «СТРЭКСТЭН»)

Место нахождения: 141201, Россия, область Московская, город Пушкино, шоссе Ярославское, дом 1А, этаж 5, комната 502, Основной государственный регистрационный номер 1037739500369

Телефон: +74959934646 Адрес электронной почты: Standart@Delfinrus.com

в лице генерального директора Ковиной Людмилы Николаевны

**заявляет, что** Жидкость охлаждающая низкотемпературная марки -40 (ОЖ -40)

Изготовитель Общество с ограниченной ответственностью «СТРЭКСТЭН» (ООО «СТРЭКСТЭН»)

Место нахождения: 141201, Россия, область Московская, город Пушкино, шоссе Ярославское, дом 1А, этаж 5, комната 502

Адрес места осуществления деятельности по изготовлению продукции: 141201, Россия, Московская область, город Пушкино, шоссе Ярославское, дом 1А

Продукция изготовлена в соответствии с ТУ 2422-179-04001396-2010 «Жидкости охлаждающие низкотемпературные. Технические условия»

Код (коды) ТН ВЭД ЕАЭС: 3820 00 000 0

Серийный выпуск

**соответствует требованиям**

ТР ТС 030/2012 "О требованиях к смазочным материалам, маслам и специальным жидкостям"

**Декларация о соответствии принята на основании**

протокола испытаний 971-д от 21.12.2020 Испытательной лаборатории Общества с ограниченной ответственностью "Глобал Ресеч", аттестат аккредитации РОСС RU.0001.21АЛ35; № 524/20 от 15.12.2020

Испытательной лаборатории масел и специальных жидкостей Автономной Некоммерческой Организации «Химическая экспертиза», аттестат аккредитации № RA.RU.21HT47

Схема декларирования соответствия: 1д

**Дополнительная информация**

Условия хранения указаны в нормативном документе, по которому изготовлена продукция. Гарантийный срок хранения – 5 лет с даты изготовления. Обозначения и наименования стандартов, включенных в перечень стандартов, в результате применения которых на добровольной основе обеспечивается соблюдение требований технического регламента Таможенного союза "О требованиях к смазочным материалам, маслам и специальным жидкостям" (ТР ТС 030/2012): ГОСТ 28084-89 "Жидкости охлаждающие низкотемпературные. Общие технические условия"

**Декларация о соответствии действительна с даты регистрации по 10.03.2024 включительно**

подпись



Ковина Людмила Николаевна  
(Ф.И.О. заявителя)

Регистрационный номер декларации о соответствии: ЕАЭС N RU Д-RU.PA01.B.39629/21

Дата регистрации декларации о соответствии: 11.03.2021

## RAPORT DE INSPECȚIE

Nr. **OI IPP-1354-2022** din **26 septembrie 2022**

**ORGANISMUL DE INSPECȚIE** din cadrul SRL "CTSIC", certificat de acreditare OI-009

### PRODUSUL :

Combustibil pentru motoare cu reacție: JET A-1 (cod NCM MD 2710 1921)

### PRODUCĂTORUL :

"Lukoil Neftohim Burgas" AD, Burgas, Bulgaria

### CLIENTUL :

ICS "LUKOIL-MOLDOVA" SRL, MD-2012, mun. Chisinau, str. Columna, 92, tel. 022 21-38-11

### DATELE PRIVIND INSPECȚIA :

Inspecția a fost efectuată la punctul de trecere a frontierei vamale: Leușeni.

Data inspecției: 13.09.2022, condițiile de mediu: +11 °C; 14.09.2022, condițiile de mediu: +11 °C; +10 °C.

Echipamente utilizate: tijă metrică MȘI-3,5; areometru ANT-1; dispozitiv pentru prelevarea probelor PV-1,0.

Documente de referință utilizate în cadrul inspecției:

- Hotărârea Guvernului RM nr. 476 din 17.04.2002 pentru aprobarea Regulamentului privind modul de transportare a produselor petroliere importate;
- Hotărârea Guvernului RM nr. 1116 din 22.08.2002 despre aprobarea Regulamentului cu privire la depozitarea și comercializarea cu ridicata, prin sistem automatizat, a produselor petroliere identificate;
- GOST 10227-86 "Combustibil pentru motoare cu reacție. Condiții tehnice" (ANULAT);
- SM SR EN ISO 3170:2012 "Produse petroliere lichide. Eșantionare manuală";
- Standarde pentru metode de încercări, indicate în tabel pe verso;
- Procedura "Inspecția produselor petroliere" PL-47.

Lot inspectat - 157,101 tone (cantitatea declarată - 3000 tone, cantitatea rămasă de inspectat, luând în considerație inspecțiile precedente - 2842,899 tone).

Data fabricației produsului și termen de garanție nu sunt indicate în documentele de însoțire.

Produsul este ambalat în autocisterne și livrat conform contractului nr. LKXH F-021/11 din 18.01.2018 cu modificările și anexele ulterioare.

Raportul de inspecție este eliberat în baza: rapoartelor de identificare a produsului și prelevare probelor: nr. 3905 din 13.09.2022; nr. 3906; nr. 3907; nr. 3909; nr. 3910; nr. 3911 din 14.09.2022;

- Raportului de încercări nr. 2954 din 23.09.2022, eliberat de LÎ "CTSIC", certificat de acreditare nr. LÎ-096 (rezultatele încercărilor sunt indicate în tabel pe verso);

- Raportului sumar de evaluare nr. OI IPP-1354 din 26.09.2022.

### REZULTATELE INSPECȚIEI :

Produsul inspectat **CORESPUNDE** cerințelor obligatorii stabilite în:

GOST 10227-86, p.1.2, tab.1, ind.1, 3, 5-8, 12, 16, 18, 20 și în specificațiile a producătorului conform contractului de livrare nr. LKXH F-021/11 din 18.01.2018 cu modificările și anexele ulterioare.

### INFORMAȚIE SUPLIMENTARĂ:

Schema de inspecție: inspecția calitativă a produsului livrat în baza contractului de lungă durată.

Tipul inspecției: inspecția inițială. Categoria (faza) inspecției: furnizare (import).

Sunt stabilite 19 inspecții periodice.

Sef secția inspecția  
produse petroliere

Inspector

Valentina JURAVLIOVA

Maria GAINA





**Tabel: Rezultatele încercărilor de laborator conform Raportului de încercări Nr. 2954 din 23.09.2022**

Condiții de mediu în laboratorul de încercări :  
Temperatura: (22±3) °C Presiunea: (100±2) kPa

Nr.	Denumirea caracteristicii	Indicele DN al metodei de încercare	Valori conform DN		Valori efective	Echipamente
			RT	TS-1		
1	2	3	4	5	6	7
1.	Densitate la 20°C, kg/m <sup>3</sup> , min.	GOST 3900-85, p.1. (anulat)	775	775	801	Set de areometre
2.	Distilare: punct inițial de distilare, °C, max.	SM EN ISO 3405:2019	135 - 155	150	178,1	Anton PAAR ADU 5 N 5639286
	10% vol. distilă până la temperatura, °C, max.		175	165	192,1	
	50% vol. distilă până la temperatura, °C, max.		225	195	209,7	
	90% vol. distilă până la temperatura, °C, max.		270	230	235,5	
	98% vol. distilă până la temperatura, °C, max.		280	250	248,5	
3.	Viscozitate cinematică, mm <sup>2</sup> /s, (c St), la + 20 °C, min.	SM EN ISO 3104:2021	1,25		1,925	Stabinger Viscometer™ SVM™ 3001
4.	Înălțimea flăcării fără fum, mm, min.	SM ISO 3014:2014	25		25,5	Aparat JBT-M N.161
5.	Indice de neutralizare, mg KOH/100 cm <sup>3</sup> combustibil, max.	GOST 5985-79, p.3.3. (anulat)	0,2-0,7	0,7	Lipsă	Metodă chimică
6.	Cifra de iod, g iod/100g, max.	GOST 2070-82, Met. A	0,5	3,5	Lipsă	Metodă chimică
7.	Punct de inflamabilitate în vas închis, °C, min.	SM EN ISO 2719:2017/A1:2021	28		60,0	Stanhope SETA PM-93 N 1040041
8.	Punct inițial de cristalizare, °C, max.	SM ISO 3013:2014	-55	-60	-50	Camera frigorifică tip „LT/RBG-5400/2-M” LINETRONIC TECHNOLOGIES N 15041579
9.	Gume actuale, mg/100 cm <sup>3</sup> , max.	GOST 8489-85	4	5	Lipsă	Termosbnt „IIOC-77” Nr. 1801
10.	Încercare pe lamă de cupru (3 ore la 100°C)	SM SR EN ISO 2160:2012	rezistă		1a	STANHOPE SETA N 1036031
11.	Aciditate minerală și alcalinitate	GOST 6307-75 (anulat)	lipsă		Lipsă	Metodă chimică
12.	Apă și impurități mecanice	GOST 10227-86 p. 4.5. (anulat)	lipsă		Lipsă	Vizual

\* corespunde specificațiilor producătorului, conform contractului de livrare nr.LKXH F-021/11 din 18.01.2018 cu modificările și anexele ulterioare

Șef secția inspecția  
produse petroliere



Valentina JURAVLIOVA

Inspector



Maria GAINA

OI CTSIC DUCE RESPONSABILITATEA PENTRU REZULTATELE INSPECȚIEI DOAR LA DATA EFECTUĂRII INSPECȚIEI  
PREZENTUL RAPORT DE INSPECȚIE NU POATE FI REPRODUS ȘI MULTIPLICAT FĂRĂ PERMISIUNEA OI CTSIC

Trade name: LUKOIL MS-20

Version: 1 / RO Rev.

Date revised: 29.08.2022

Product no.: PF484100

Replaces Version: - / RO

Print date: 28.11.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

LUKOIL MS-20

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/preparation**

Aviation oil

**1.3. Details of the supplier of the safety data sheet****Address**

LUKOIL LUBRICANTS EAST EUROPE S.R.L.

Strada Mihai Bravu 235

100410 Ploiești

RO

Telephone no. +40 244 504 802

Fax no. +40 244 504 801

E-mail address of person responsible for this SDS technical.support.llee@eu.lukoil.com

**1.4. Emergency telephone number**

INSPB: L-V, entry 8.00-15.00 (conf. Art 5 / HG 398/2010) +40213183606

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

**2.2. Label elements****Labelling according to regulation (EC) No 1272/2008****Supplemental information**

EUH210

Safety data sheet available on request.

**2.3. Other hazards**

No special hazards have to be mentioned.

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Further ingredients****Residual oils (petroleum), hydrotreated; Baseoil - unspecified**

CAS No. 64742-57-0

EINECS no. 265-160-8

Registration no. 01-2119489287-22

Index no. 649-470-00-4

Concentration &gt;= 95 %

[3]

Classification (Regulation (EC) No. 1272/2008)

-

Trade name: LUKOIL MS-20

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Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note H, L

**Note**

[3] Substance with occupational exposure limits

**Other information**

DMSO&lt;3% (IP 346)

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In case of persistent symptoms consult doctor.

**After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment.

**After skin contact**

In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

**After ingestion**

If individual is drowsy or unconscious place in recovery position (on left side, with head down). Call in a physician immediately and show him the Safety Data Sheet. Do not induce vomiting.

**Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

**4.2. Most important symptoms and effects, both acute and delayed**

Until now no symptoms known so far.

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / treatment**

Treat symptomatically

**Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam, Dry powder, Carbon dioxide, Water spray jet

**Non suitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

In case of combustion evolution of dangerous gases possible.

**5.3. Advice for firefighters**

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**Special protective equipment for fire-fighting**

In case of combustion use a suitable breathing apparatus.

**Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

High risk of slipping due to leakage/spillage of product. Use personal protective clothing. Ensure adequate ventilation. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

**6.2. Environmental precautions**

Do not discharge into the subsoil/soil. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.

**6.3. Methods and material for containment and cleaning up**

Pick up with absorbent material. Clean contaminated floors and objects thoroughly, observing environmental regulations. Dispose of as prescribed.

**6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Observe the usual precautions for handling chemicals.

**Advice on protection against fire and explosion**

No special measures required.

**Classification of fires / temperature class / Ignition group / Dust explosion class**

Classification of fires                      B (Combustible liquid substances)

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store product in closed containers.

**Hints on storage assembly**

Do not store together with foodstuffs.

**Further information on storage conditions**

Keep container tightly closed and dry. Protect from heat and direct sunlight.

**7.3. Specific end use(s)**

Lubricants

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Other information**

There are not known any further control parameters.

**8.2. Exposure controls****General protective and hygiene measures**

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Observe the usual precautions for handling chemicals.

**Respiratory protection**

Not necessary, but do not inhale vapours. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

**Hand protection**

Gloves

Appropriate Material neoprene

**Eye protection**

Safety glasses with side protection shield

**Body protection**

Clothing as usual in the chemical industry.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Physical state**

liquid

**Colour**

brownish yellow

**Odour**

characteristic

**Density and/or relative density**Value 891 kg/m<sup>3</sup>

Temperature 20 °C

Method ASTM D 4052

**Viscosity****kinematic**Value 299,2 mm<sup>2</sup>/s

Temperature 40 °C

Method ASTM D 445

**Flash point**

Value &gt;= 265 °C

Method ISO 2592

**Pourpoint**

Value &lt;= -18 °C

Method DIN/ISO 3016

**Melting point**

Remarks not determined

**Freezing point**

Remarks not determined

**Boiling point or initial boiling point and boiling range**

Remarks not determined

**Flammability**

not determined

**Upper and lower explosive limits**

Remarks not determined

**Boiling point or initial boiling point and boiling range**

not determined

**Ignition temperature**

Remarks not determined

**Decomposition temperature**



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Remarks not determined

**pH value**

Remarks Not applicable

**Solubility(ies)**

Remarks not determined

**Partition coefficient n-octanol/water (log value)**

Remarks not determined

**Vapour pressure**

Remarks not determined

**Relative vapour density**

Remarks not determined

**9.2. Other information****Odour threshold**

Remarks not determined

**Evaporation rate (ether = 1) :**

Remarks not determined

**Solubility in water**

Remarks not determined

**Auto-ignition temperature**

Remarks Not applicable

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

**Other information**

None known

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

No hazardous reactions known.

**10.3. Possibility of hazardous reactions**

Oxidising agents

**10.4. Conditions to avoid**

No hazardous reactions known.

**10.5. Incompatible materials**

Oxidising agents, Reactions with strong acids.

**10.6. Hazardous decomposition products**

Possible in traces

**Other information**

Relevant information in Section 2:

**SECTION 11: Toxicological information**

Trade name: LUKOIL MS-20

Version: 1 / RO Rev.

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Replaces Version: - / RO

Print date: 28.11.2022

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

### Acute oral toxicity (Components)

#### Baseoil - unspecified

Species rat  
 LD50 > 5000 mg/kg  
 Method OECD 401  
 Remarks Test conducted with a similar formulation.

### Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

### Acute dermal toxicity (Components)

#### Baseoil - unspecified

Species rabbit  
 LD50 > 5000 mg/kg  
 Method OECD 402  
 Remarks Test conducted with a similar formulation.

### Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

### Acute inhalative toxicity (Components)

#### Baseoil - unspecified

Species rat  
 LC50 > 5,53 mg/l  
 Duration of exposure 4 h  
 Method OECD 403  
 Remarks Test conducted with a similar formulation.

### Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

### Serious eye damage/irritation

Remarks Based on available data, the classification criteria are not met.

### Sensitization

Remarks Based on available data, the classification criteria are not met.

### Subacute, subchronic, chronic toxicity

Remarks not determined

### Mutagenicity

Remarks Based on available data, the classification criteria are not met.

### Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

### Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

### Specific Target Organ Toxicity (STOT)

#### Single exposure

Remarks Based on available data, the classification criteria are not met.

#### Repeated exposure

Remarks Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

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**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

**Ingredient data****Acute oral toxicity (Components)****Baseoil - unspecified**

Species	rat	
LD50	> 5000	mg/kg
Method	OECD 401	
Remarks	Test conducted with a similar formulation.	

**Acute dermal toxicity (Components)****Baseoil - unspecified**

Species	rabbit	
LD50	> 5000	mg/kg
Method	OECD 402	
Remarks	Test conducted with a similar formulation.	

**Acute inhalative toxicity (Components)****Baseoil - unspecified**

Species	rat	
LC50	> 5,53	mg/l
Duration of exposure	4	h
Method	OECD 403	
Remarks	Test conducted with a similar formulation.	

**Other information**

No toxicological data are available.

**SECTION 12: Ecological information****12.1. Toxicity****General information**

not determined

**Fish toxicity (Components)****Baseoil - unspecified**

Species	Fathead minnow (Pimephales promelas)	
LL50	> 100	mg/l
Duration of exposure	96	h
Method	OECD 203	
Remarks	Test conducted with a similar formulation.	

**Baseoil - unspecified**

Species	Fathead minnow (Pimephales promelas)	
NOEL	>= 100	mg/l
Duration of exposure	96	h
Method	OECD 203	
Remarks	Test conducted with a similar formulation.	

**Daphnia toxicity (Components)****Baseoil - unspecified**

Species	Daphnia magna	
EL50	> 10000	mg/l
Duration of exposure	48	h
Method	OECD 202	
Remarks	Test conducted with a similar formulation.	

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**Baseoil - unspecified**

Species	Daphnia magna	
NOEL	>= 10000	mg/l
Duration of exposure	48 h	
Method	OECD 202	
Remarks	Test conducted with a similar formulation.	

**Algae toxicity (Components)****Baseoil - unspecified**

Species	Pseudokirchneriella subcapitata	
NOEL	>= 100	mg/l
Duration of exposure	72 h	
Method	OECD 201	
Remarks	Test conducted with a similar formulation.	

**12.2. Persistence and degradability****General information**

not determined

**Biodegradability**

evaluation not readily degradable

**12.3. Bioaccumulative potential****General information**

not determined

**Partition coefficient n-octanol/water (log value)**

Remarks not determined

**Octanol/water partition coefficient (log Pow) (Components)**

**Distillates (Petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified**

log Pow	3,9	to	6
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**12.4. Mobility in soil****General information**

not determined

**12.5. Results of PBT and vPvB assessment****General information**

not determined

**Results of PBT and vPvB assessment**

The Substance does not meet PBT-criteria.  
This substance does not meet the vPvB-criteria.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects****General information**

not determined

**General information / ecology**

Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations**



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### 13.1. Waste treatment methods

#### Disposal recommendations for the product

EWC waste code 13 02 05\* mineral-based non-chlorinated engine, gear and lubricating oils

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Dispose of waste according to applicable legislation.

#### Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

EWC waste code 15 01 10\* packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.-	The product does not constitute a hazardous substance in sea transport.-	The product does not constitute a hazardous substance in air transport.-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
Label			
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	no	-

### Information for all modes of transport

#### 14.6. Special precautions for user

See Sections 6 to 8

### Other information

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Other information

There is no data available on the product apart from the information given in this subsection.

### 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

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**SECTION 16: Other information****Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

# LUKOIL MS-20

## Aviation oil

### Meets requirements

GOST 21743

### Product description

LUKOIL MS-20 is solvent-refined mineral oil without additives.

### Application

LUKOIL MS-20 is approved for use in aircraft piston engines, gas turbine engines, helicopter gear cases, and feathering hinges of MI helicopter rotor heads. It is used in oil blends for the following applications:

- lubricating systems of aircraft turbo-prop engines;
- feathering hinges of helicopter rotor heads
- engine compressors of gas compressor units
- speed governors of diesel engines with self-contained oil systems and crankcases

### Features and benefits

- Provide deterging properties
- Minimal deposits in combustion chambers, spark plugs, rings, pistons, and other components
- Reduced wear
- Increased equipment reliability
- High oxidative and thermal stability
- Easier cold starting
- Excellent high temperature properties

### Typical test data

The information given in the typical data does not constitute a specification and can be affected by allowable production tolerances. The right to make modifications is reserved by LUKOIL LUBRICANTS EAST EUROPE S.R.L.

Property	Test methods	Value
Density at 15°C, kg/m <sup>3</sup>	ASTM D 7042	894.6
Kinematic viscosity at 100 °C, mm <sup>2</sup> /s	ASTM D 7042	22.44
Viscosity index	ASTM D 7042/ SR ISO 2909	92
Conradson Carbon Residue, %	ASTM D 189-14	0.27
Neutralization index, mg KOH/g	ASTM D 1401/ STAS 56 met. II	0.02
Ash	ASTM D 482	0.003
Flash point, COC, °C	ASTM D 92/ SR ISO 2592	275
Pour point, °C	ASTM D 97/ SR 13552	-18
Colour	ASTM D 6045	5

### Shelf life and storage

When stored in the original unopened containers in a dry place, this product has a shelf life of 5 years from the date of production.

### Safety, Health, Environment

This product doesn't contain any toxic ingredients. During storage, transportation and application of this product, the safety rules for handling lubricating materials and the environment protection regulations must be observed. For further information on how to use LUKOIL products, please refer to the material safety data sheet.