

Form No.: 003-EN
Issue date: 10.12.2022

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.: 202306829
Date of issue: 14/06/2023

Test sample

Product: AVTOIL 10W40 CI-4/ SL
Material ID: M0000142
Date of sampling: 14/06/2023

Manufacture date: 14/06/2023
Batch number: 2306829
Tank ID: T41.1

Test result

Date of analysis: 14/06/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm ² /s	14.03	12.5-16.3	ASTM D445	Pass
Viscosity index	-	147	Min. 140	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	-	2.4	Test & Report	ASTM D1500	Pass
TBN.	mg KOH/g	9.48	Min. 9.0	ASTM D2896	Pass
Density at 20 °C	g/cm ³	0.8668	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:

- 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



Matilda Yusifova
Head of Laboratory

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

Certificate No.: 202306900
Date of issue: 21/06/2023

Test sample

Product: AVTOIL 10W40 SG/CD
Material ID: M0000166
Date of sampling: 21/06/2023

Manufacture date: 21/06/2023
Batch number: 2306900
Tank ID: T41.1

Test result

Date of analysis: 21/06/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm ² /s	14.10	12.5-16.3	ASTM D445	Pass
Viscosity index, min.	-	139	Min. 125	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, min.	°C	224	Min. 205	ASTM D92	Pass
Pour Point COC, max.	°C	-35	Max. -35	ASTM D97	Pass
Color	-	1.4	Test & Report	ASTM D1500	Pass
Density at 20 °C, max.	g/cm ³	0.8633	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.: 202307986
Date of issue: 06/07/2023

Test sample

Product: AVTOIL 15W40 SG/CD
Material ID: M0000168
Date of sampling: 06/07/2023

Manufacture date: 06/07/2023
Batch number: 2307986
Tank ID: T41.1

Test result

Date of analysis: 06/07/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm ² /s	14.79	12.5-16.3	ASTM D445	Pass
Viscosity index, min.	-	135	Min. 120	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, min.	°C	232	Min. 210	ASTM D92	Pass
Pour Point COC, max.	°C	-33	Max. -30	ASTM D97	Pass
Color	-	2.3	Test & Report	ASTM D1500	Pass
Density at 20 °C, max.	g/cm ³	0.8783	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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Head of Laboratory

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

Certificate No.: 2024124
Date of issue: 16/01/2024

Test sample

Product: AVTOIL M8B 20W20
Batch number: 2401124
Tank ID: T41.2

Manufacture date: 16/01/2024
Date of sampling: 16/01/2024
Date of analysis: 16/01/2024

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	7.5-8.5	8.420	Pass
Viscosity index	-	ASTM D2270	Min. 93	104	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 208	238	Pass
Pour Point	°C	ASTM D97	Max. -25	-25	Pass
Color	-	GOST 20284	Max. 3.5	1.6	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Max. 0.905	0.8846	Pass

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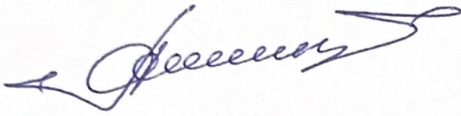
Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

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Authorised singnatory



Allahverdiyeva Aytan
Head of Laboratory



Isgandarli Nazrin
Chemical Engineer



Form No.: 003-EN
Issue date: 10.12.2022

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

Certificate No.: 202307996
Date of issue: 07/07/2023

Test sample

Product: AVTOIL M10DM
Material ID: M00047
Date of sampling: 07/07/2023

Manufacture date: 07/07/2023
Batch number: 2307996
Tank ID: T41.2

Test result

Date of analysis: 07/07/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm ² /s	11.83	Min. 11.40	ASTM D445	Pass
Viscosity index	-	99	Min. 90	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	246	Min. 220	ASTM D92	Pass
Pour Point	°C	-21	Max. -18	ASTM D97	Pass
Color, with a dilution of 15:85, units of the CNT	-	0.9	Max. 3.5	ГОСТ 20284	Pass
Density at 20 °C	g/cm ³	0.8843	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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Authorised signatory



Matilda Yusifova
Head of Laboratory

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

Certificate No.: 2024129
Date of issue: 27/01/2024

Test sample

Product: AVTOIL TAD-17 85W90 GL-5
Batch number: 2401129
Tank ID: T41.1

Manufacture date: 27/01/2024
Date of sampling: 27/01/2024
Date of analysis: 27/01/2024

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	Min. 17.50	18.15	Pass
Viscosity Index	-	ASTM D1500	Min. 90	94	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 200	230	Pass
Pour Point	°C	ASTM D97	Max. -30	-30	Pass
Color	-	ASTM D1500	Test & Report	3.7	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Test & Report	0.8917	Pass

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Authorised signatory

Allahverdiyeva Aytan
Head of Laboratory

Isgandarli Nazrin
Chemical Engineer



LLC «JV YUKOIL»

48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100

Hot-line: +38 (0) 800 60 5555

Tel: +38 (061) 222 80 25 (laboratory)

State register No. 31852954



Testing laboratory of JV "YUKOIL" LLC is certified for carrying out tests of quality parameters of petroleum products, technical fluids and lubricants. Certificate of technical competence recognition № AB 83-21 dated 16.11.2021 is issued by the State-owned enterprise "ZAPORIZHYASTANDARTMETROLOGIA", valid till 16.11.2024

Quality Certificate No 04058.01.01.1

Transmission oil YUKO TRANS 75W-90 GL-4

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade: **SAE 75W-90**

Quality Index: **API GL-4**

Production date: January 2024

Package: canister 1L PE

Batch No: 04058.23.01.24.01.



Test	Norm	Result	Test method
Density at 20°C, kg/m ³ , not more than	920	870,7	ASTM D1298
Kinematic viscosity at 100°C, mm ² /s	13,5 - 18,5	14,76	ASTM D445
Viscosity index, not less than	135	170	ASTM D2270
Open cup flash point, °C, not less than	200	225	ASTM D92
Pour point, °C, not high than	- 30	- 40	ASTM D97
Mass fraction of mechanical impurities, %, not more than	absence	absence	GOST 6370
Water content, %, not more than	traces	traces	ASTM D95
Acid number, mg KOH/g, not more than	2,0	0,65	ASTM D974
Sulfur content, %	1,0	1,17	GOST 1431 or ASTM D6481 or ASTM D6443 or ASTM D4927
Colour on colorimeter, not more than	6,0	3,0	ASTM D1500
Corrosive effect on metals	pass	pass	ASTM D130
Foaming characteristics, cm ³ , not more:			ASTM D892
- at 24°C	100	10	ASTM D892
- at 94°C	150	20	ASTM D892
- at 24°C, after 94°C	100	10	ASTM D892
Tribological characteristics on 4 balls machine at (20±5)°C			ASTM D2783
- welding load, N, not less than	3283	3 479	ASTM D2783
The temperature at which the dynamic viscosity does not exceed 150,000 MPa·s, not higher	- 40	- 40	GOST 1929

Result: the product quality meets the standard of

seal

Head of Quality Assurance Department

WEB: www.yuko.eu

Hot-line: +38 (0) 800 60 5555

E-mail: support@yukoil.com

Tel.: +38 (061) 222 80 32

Member of:





ALCO QUALITY ASSURANCE LABORATORY
TEST REPORT
Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21



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

Certificate No.: 2024121
Date of issue: 30/01/2024

Test sample

Product: AVTOIL TSP-15K
Batch number: 2401121
Tank ID: T41.1

Manufacture date: 26/01/2024
Date of sampling: 26/01/2024
Date of analysis: 26/01/2024

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	14.89	Pass
Viscosity index	-	ASTM D2270	Test & Report	93	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 185	242	Pass
Pour Point	°C	ASTM D97	Max. -25	-25	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Max. 0.910	0.8883	Pass

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

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TEST REPORT**

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Authorised signatory

**Allahverdiyeva Aytan
Head of Laboratory**

**Isgandarli Nazrin
Chemical Engineer**





Quality Assurance Laboratory

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

✉ Email: lab@azlub.com

Page 2 of 2

Forma No: F5.10-03/ Release date:12.01.2024/ Rev. No: 00

	<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.: 2024129
Date of issue: 27/01/2024

Test sample

Product: AVTOIL TAD-17 85W90 GL-5
Batch number: 2401129
Tank ID: T41.1

Manufacture date: 27/01/2024
Date of sampling: 27/01/2024
Date of analysis: 27/01/2024

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	Min. 17.50	18.15	Pass
Viscosity Index	-	ASTM D1500	Min. 90	94	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 200	230	Pass
Pour Point	°C	ASTM D97	Max. -30	-30	Pass
Color	-	ASTM D1500	Test & Report	3.7	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Test & Report	0.8917	Pass

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Quality Certificate No 50054.01.01.1

Transmission oil YUKO Nigrol-L (GL-1, SAE 140)

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade: **SAE 140**

Quality Index: **API GL-1**

Production date: December 2023

Package: barrel 200L metal

Batch No:50054.13.12.23.01.



Test	Norm	Result	Test method
Density at 20°C, kg/m ³ , not more than	970	914,0	ASTM D1298
Kinematic viscosity at 100°C, mm ² /s	27 - 34	33,7	ASTM D445
Open cup flash point, °C, not less than	150	170	ASTM D92
Pour point, °C, not high than	- 5	- 5	ASTM D97
Contaminant content	absence	absence	DSTU GOST 26378.2
Water content, %, not more than	0,15		ASTM D95
Mass part of water-soluble acids and alkalis	absence	absence	GOST 6307
Corrosion on plates of the copper and steel	pass	pass	ASTM D130

Result: the product quality meets the standard of

seal

Head of Quality Assurance Department



ТОВ «СП ЮКОЙЛ». Завод технічних оливо.
Україна, 09100, Київська обл., Білоцерківський р-н, місто Біла Церква, вул. Пулюя Івана, будинок 48-А
Телефон приймальні: +38 (0612) 65 46 81
Телефон ВТК: +38 (061) 222 80 25
ЄДРПОУ 31852954



YUKO-є зареєстрованою торговою маркою ТОВ "СП ЮКОЙЛ"

Випробувальна лабораторія ТОВ «СП ЮКОЙЛ» атестована на проведення вимірювань показників якості нафтопродуктів, технічних рідин та мастильних матеріалів. Свідоцтво про визнання технічної компетентності № АВ 43-25 від 22.11.2022р. видане ДП «ЗАПОРІЖЖЯСТАНДАРТИМЕТРОЛОГІЯ», чинне до 16.11.2024 р

Паспорт якості фасованої продукції №06033.03.01.1

Мастило YUKO Літол-24

Виробник: ТОВ «СП ЮКОЙЛ» за ТУ У 20.5-31852954-122:2023
Розфасовано: ТОВ «СП ЮКОЙЛ» за ТУ У 23.2-31852954-027:2006
Клас NLGI **NLGI 3**
Клас експлуатаційних властивостей: КЗК-40, ISO-L-XDCEA3



Дата виготовлення: Лютий 2024р.
Тара: відро 20л жерсть; об'єм партії 348 шт.
Номер партії: 06033.07.02.24.01.

Ф.5 СТП014

Назва показника	Вимоги НД	Фактично	Метод випробувань
Зовнішній вигляд	Однорідна мазь гладкої структури від світло-жовтого до темно-коричневого кольору	Однорідна мазь гладкої структури жовтого кольору	ГОСТ 38.001 або п. 7.3 цих ТУ
Температура крапання, °С, не нижче	140	148	ГОСТ 6793 або ASTM D2265
Пенетрація при 25°С з перемішуванням, 0,1 мм	230-290	240	ГОСТ 5346, метод Б або ASTM D217
В'язкість ефективна при мінус 20°С та середньому градієнті швидкості деформації 10 с-1, Па·с, не більше	1 500	564	ГОСТ 7163 або ASTM D1092
Колоїдна стабільність: масова частка оливи, відпресованої від мастила, %, не більше	15,0	8,00	ГОСТ 7142
Межа міцності на зсув при 50°С, Па, не менше	150	360	ГОСТ 7143 метод Б
Випарність, %, не більше	5,0	0,89	ГОСТ 9566 з доп. за п. 7.4 цих ТУ
Корозійний вплив на пластині зі сталі	Витримує	Витримує	ГОСТ 9.080
Трибологічні характеристики на 4-х кульковій машині при (20±5)°С: - навантаження зварювання (Рз), Н, не менше	1 381	1 381	ГОСТ 9490 або ASTM D2596

Паспорт якості дійсний тільки за наявності печатки.

Висновок: якість продукції відповідає вимогам нормативної документації

Гарантійний термін зберігання - 5 років

М. П.

Начальник ВТК

Анна ЛАРЧЕНКО

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

Certificate No.: 202420
Date of issue: 12/01/2024

Test sample

Product: AVTOIL SOLIDOL
Batch number: 2401045
Tank ID: T41.3

Manufacture date: 12/01/2024
Date of sampling: 12/01/2024
Date of analysis: 12/01/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Homogeneous ointment without lumps, from light yellow to dark brown		Pass
Dropping temperature	°C	GOST 6793	Min. 78	96	Pass
Penetration at 25°C with stirring 60 double cycles	mm ⁻¹	GOST 5346 method B	230-290	252	Pass
Viscosity effective and average strain rate gradient, 10c ⁻¹ - at 0°C temperature	Pa	GOST 7163	Max. 250	220	Pass
Strength limit at 50°C	Pa	GOST 7143 method B	Min. 196	225	Pass
Mass fraction of free alkali in NaOH	%	GOST 6707	Max. 0.2	0.03	Pass
Organic acid content	%	GOST 6707	None	None	Pass
Water content	%	GOST 2477	Max. 2.5	2.0	Pass
Mechanical impurities content, insoluble in hydrochloric acid	%	GOST 6479	None	None	Pass
Mass fraction of calcium soaps of fatty acids that are part of natural fats	%	GOST 5211	Min. 11.0	18.0	Pass

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

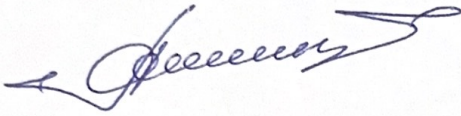
Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

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.

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
Chemical Engineer



LLC «JV YUKOIL»

48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100

Hot-line: +38 (0) 800 60 5555

Tel: +38 (061) 222 80 25 (laboratory)

State register No. 31852954



Testing laboratory of JV "YUKOIL" LLC is certified for carrying out tests of quality parameters of petroleum products, technical fluids and lubricants. Certificate of technical competence recognition № AB 83-21 dated 16.11.2021 is issued by the State-owned enterprise "ZAPORIZHYASTANDARTMETROLOGIA", valid till 16.11.2024

Quality Certificate No 43030.01.01.1

Grease YUKO Graphite

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade:

Quality Index: **OGF2G-20, ISO-L-XBAEA2**

Production date: October 2023

Package: can 1L tin

Batch No:43030.24.10.23.01.



Test	Norm	Result	Test method
Appearance	homogeneous grease from dark brown to black	homogeneous black ointment	GOST 1033 p. 4.2
Dropping point, °C, not low than	77	97,0	ASTM D2265
Worked penetration at 25°C, 0.1 mm	250	270	GOST 5346
Corrosion on plates of the steel	pass	pass	GOST 9.080
Water content	3	0,1	ASTM D95
Shear strength at 50°C, Pa, not less than	100	350	GOST 7143
Oil separation, %, not more than	5	3,8	GOST 7142
Effective viscosity at 0°C and with average gradient of the strain rate 10 s ⁻¹ , Pa·s, not more than	100	100	ASTM D1092

Result: the product quality meets the standard of GOST 3333-80

seal

Head of Quality Assurance Department

WEB: www.yuko.eu

Hot-line: +38 (0) 800 60 5555

E-mail: support@yukoil.com

Tel.: +38 (061) 222 80 32

Member of:





ALCO QUALITY ASSURANCE LABORATORY
TEST REPORT
Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21



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

Certificate No.: 2024165
Date of issue: 01/02/2024

Test sample

Product: AVTOIL 5W30 SN/CF
Batch number: 2402165
Tank ID: T41.4

Manufacture date: 01/02/2024
Date of sampling: 01/02/2024
Date of analysis: 01/02/2024

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	9.30-12.50	10.51	Pass
Viscosity index	-	ASTM D2270	Min. 140	151	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 210	226	Pass
Pour Point	°C	ASTM D97	Max. -36	-39	Pass
TBN	mg KOH/g	ASTM D2896	Min. 7.0	8.78	Pass
Color	-	ASTM D1500	Test & Report	2.5	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Test & Report	0.8623	Pass

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

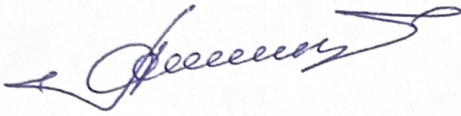
Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

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.

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.
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Authorised singnatory





Allahverdiyeva Aytan
Head of Laboratory



Isgandarli Nazrin
Chemical Engineer



	<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.: 2024107
Date of issue: 25/01/2024

Test sample

Product: AVTOIL 5W40 SN/CF
Batch number: 2401107
Tank ID: T41.4

Manufacture date: 25/01/2024
Date of sampling: 25/01/2024
Date of analysis: 25/01/2024

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	12.5-16.3	14.02	Pass
Viscosity index	-	ASTM D2270	Min. 140	161	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 200	224	Pass
Pour Point	°C	ASTM D97	Max. -35	-35	Pass
Color	-	ASTM D1500	Test & Report	1.4	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Test & Report	0.8632	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.



ALCO QUALITY ASSURANCE LABORATORY
TEST REPORT
Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21



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 signatory

Allahverdiyeva Aytan
Head of Laboratory

Isgandarli Nazrin
Chemical Engineer





Изготовитель ООО "Черкасский завод автохимии"
Украина, г. Черкассы, ул. В.Чорновола 118
тел. +38 (0472) 64-24-04, 64-04-90

ПАСПОРТ КАЧЕСТВА № 23-4260/p

**Жидкость охлаждающая
низкозамерзающая марки ТА красный
Антифриз Ст12+**

Партия №: 23-561-01
Масса нетто, кг указано на канистре

Дата фасовки
Вид и тип тары

14.09.2023
кан п/е 1л 5л 10 л

№	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид	Однородная прозрачная жидкость без механических примесей. Цвет соответствует образцу-эталоны	Соответствует Г	ТУ У 24.6-14215951-001:2010 п.6,3
2	Плотность при температуре 20 °С, г/см ³ , не меньше	1,055	1,058	ДСТУ 7261:2012
3	Температура начала кристаллизации, °С, не выше	-23	-23	ТУ У 24.6-14215951-001:2010 п.6,5
4	Фракционный состав:			ТУ У 24.6-14215951-001:2010 п.6,6
	Температура начала перегонки, °С, не ниже	100	101,0	
	Фракционный состав массовая доля жидкости, перегоняемая до температуры °С, не больше	60	57,5	
5	Коррозионное воздействие на металлы г/м2 сут., не больше *			ТУ У 24.6-14215951-001:2010 п.6,7
	<input type="checkbox"/> алюминий	0,1	0,10	
	<input type="checkbox"/> чугун	0,1	0,08	
	<input type="checkbox"/> сталь	0,1	-0,05	
	<input type="checkbox"/> медь	0,1	0,02	
	<input type="checkbox"/> латунь	0,1	-0,01	
	<input type="checkbox"/> припой	0,2	0,01	
6	Вспениваемость:			ТУ У 24.6-14215951-001:2010 п.6,8
	<input type="checkbox"/> Объем пены, см3 не больше	30	0	
	<input type="checkbox"/> Стойкость пены, с, не больше	3	0	
7	Набухание резины, %, не больше	5	2,0	ТУ У 24.6-14215951-001:2010 п.6,9
8	Водородный показатель(pH), при 20 °С	7.5-11.0	8,5	ТУ У 24.6-14215951-001:2010 п.6,10
9	Щелочность, см3 раствора КОН, не меньше	10	10	ТУ У 24.6-14215951-001:2010 п.6,11
10	Температура застывания, °С, не выше	-25	-25	ТУ У 24.6-14215951-001:2010, п.6.13

Гарантийный срок хранения – 5 лет

Ответственный за анализ

Контроль качества упаковки

Печать



Подпись

Подпись





4226

MINISTERUL SĂNĂȚII
AL REPUBLICII MOLDOVA

МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ
РЕСПУБЛИКИ МОЛДОВА

AGENȚIA NAȚIONALĂ PENTRU SĂNĂȚATE PUBLICĂ
НАЦИОНАЛЬНОЕ АГЕНТСТВО ОБЩЕСТВЕННОГО ЗДОРОВЬЯ

MD-2028, muș. Chișinău, str. Gheorghe. Asachi, 67-a
Tel. + 373 22 574501, fax + 373 22 729725
IDNO 1018601000021

E-mail: office@ansp.gov.md

DOCUMENTAȚIE MEDICALĂ / Медицинская документация
FORMULAR / Форма Nr. 303-2/e
APROBAT DE MS al RM / Утверждена МЗ РМ 31.10.11 Nr. 828

Centrul de încercări de laborator acreditat de către
Centrul Național de Acreditare din Republica Moldova MOLDAC
Испытательный лабораторный центр аккредитованный
Национальным Аккредитационным Центром РМ MOLDAC
Certificat nr. LI-044 din 17.02.2018 valabil până la 16.02.2022

AVIZ SANITAR
PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P-11900/2021

Санитарное заключение для пищевых и непищевых продуктов

din/om "19" octombrie a.12. 2021

Prin prezentul aviz sanitar se confirmă că producerea, importul, utilizarea și desfacerea produselor / echipamentelor
Настоящим санитарным заключением подтверждается, что производство, ввоз, использование и реализация продукции / оборудования

Lichid pentru sisteme SCR (euro 4, euro 5)

sunt conforme Regulamentului (lor) sanitar (e) / соответствуют санитарному (ым) регламенту (ам) (se va indica denumirea completă a Regulamentului (lor) sanitar (e) / указать полное наименование санитарного (ых) регламента (ов)

SF 41279445-001:2021, IT MD 41279445-001:2021, Rț MD 41279445-001:2021, Indicațiilor metodice nr.341 din 15.04.2014"Metode de determinare și evaluare a unor indici toxicologici și clinici a siguranței și inofensivității unor categorii de produse cu impact potențial asupra sănătății"

Organizația-producătoare/importatoare, țara de origine / организация произв./импортер, страна происхождения

"AMID-AUTO" SRL, Republica Moldova

Destinatarul avizului sanitar / получатель санитарного заключения

"AMID-AUTO" SRL, Moldova, Chișinău, str. Independenței, 42, ap.20

Ca temei pentru recunoașterea conformității produselor Regulamentului (lor) sanitar (e) menționat (e) a servit / Основанием для признания продукции указанному (ым) санитарному (ым) регламенту (ам) послужило

Demers, autorizație sanitară de funcționare nr.003895/2019/1955 din 31.07.2021, standard de firmă, instrucțiune tehnologică, rețeta, raport a încercărilor de laborator nr.6555 din 04.10.2021

(a enumera documentele de însoțire, buletinele de analiză / перечислить сопроводительные док., протоколы исслед.)

Caracteristica sanitară a produselor / санитарная характеристика продукции:

Parametrii (factorii) / показатели (факторы) Normativul sanitar / санитарный норматив

conform raportului încercărilor de laborator nr.6555 din 04.10.2021

Domeniu de utilizare / Область применения:

îngrijire auto

Condițiile necesare de utilizare, depozitare, transportare, măsurile de securitate / Необходимые условия использования, хранения, транспортировки, меры безопасности:

producerea, plasarea pe piață în condițiile respectării legislației în vigoare în Republica Moldova
AVIZUL SANITAR este valabil pînă la / Санитарное Заключение действительно до: 30 octombrie 2024

DIRECTORUL AGENȚIEI NAȚIONALE PENTRU SĂNĂȚATE PUBLICĂ

Int.

Vasile GUȘTIUC
(numele, prenumele/ Ф.И.О.)

(semnătura / подпись)



ANSP/HAO3

0003357

03

ex:Șt.Constantinovi
tel: 574 529

SP 10-XVI-09

MINISTERUL SĂNĂTĂȚII AL REPUBLICII MOLDOVA
МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ
РЕСПУБЛИКИ МОЛДОВА
AGENCIA NAȚIONALĂ PENTRU SĂNĂTATE PUBLICĂ
НАЦИОНАЛЬНОЕ АГЕНТСТВО ОБЩЕСТВЕННОГО
ЗДОРОВЬЯ

MD-2028, mun. Chișinău, str. Gheorghe. Asachi, 67 a
Tel. + 373 22 574501, fax + 373 22 729725
IDNO 1018601000021
e-mail: office@ansp.gov.md



DOCUMENTAȚIE MEDICALĂ / Медицинская документация
FORMULAR / Форма Nr. 303-2 e
APROBAT DE MS al RM / Утверждена МЗ РМ Nr. 828
от 31.10.11
Centrul de încercări de laborator acreditat de către Centrul
Național de Acreditare din Republica Moldova MOLDAC
Испытательный лабораторный центр аккредитованный
Национальным Аккредитационным Центром РМ MOLDAC
Certificat nr. LI-044 din 17.02.2018 valabil până la 16.02.2022

AVIZ SANITAR
PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P-13272/2022

Санитарное заключение для пищевых и непищевых продуктов

din/от 04 martie 2022

Prin prezentul aviz sanitar se confirmă că producerea, importul, utilizarea și desfacerea produselor / echipamentelor
Настоящим санитарным заключением подтверждается что производство, ввоз, использование и реализация продукции / оборудования
"AD-BLUE" – soluție apoasă de uree SCR-Euro 6

sunt conforme Regulamentului (lor) sanitar (e) / соответствуют санитарному (ым) регламенту (ам) (se va indica denumirea completă a
Regulamentului (lor) sanitar (e) / указать полное наименование санитарного (ых) регламента (ов))

SF 41279445-001:2021, Indicațiilor metodice nr.341 din 15.04.2014"Metode de determinare și evaluare a unor
indici toxicologici și clinici a siguranței și inofensivității unor categorii de produse cu impact potențial asupra sănătății"

Organizația-producătoare/importatoare, țara de origine / организация произв./импортер, страна происхождения

"AMID-AUTO" SRL, Republica Moldova

Destinatarul avizului sanitar / получатель санитарного заключения

AMID-AUTO S.R.L. , Republica Moldova, mun. Chișinău, sec. Botanica, str. Independenței, 42, ap./of. 20, 2072

Temei pentru recunoașterea conformității produselor Regulamentului (lor) sanitar (e) menționat (e) a servit /

Основанием для признания продукции указанному (ым) санитарному (ым) регламенту (ам) послужило

Demers, autorizație sanitară de funcționare nr.P-0616/2019 din 23.03.2019, standard de firmă, raport de încercări nr.171 din
23.09.2021, raport a încercărilor de laborator nr.732 din 03.03.2022

(a enumera documentele de însoțire, buletinele de analiză / перечислить сопроводительные док., протоколы исслед.)

Caracteristica sanitară a produselor / санитарная характеристика продукции:

Parametrii (factorii) / показатели (факторы)

Normativul sanitar / санитарный норматив

conform raportului încercărilor de laborator nr.732 din 03.03.2022

Domeniu de utilizare / Область применения:

îngrijire auto – adeviz pentru motoarele diesel SCR

Condițiile necesare de utilizare, depozitare, transportare, măsurile de securitate / Необходимые условия использования, хранения,
транспортировки, меры безопасности:

producerea, plasarea pe piață în condițiile respectării legislației în vigoare în Republica Moldova

AVIZUL SANITAR este valabil pînă la / Санитарное заключение действует до: 31.03.2025

DIRECTORUL AGENTIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ

Digitally signed by Jelamschi Nicolae

Date: 2022.03.04 13:37:45 EET

Reason: MoldSign Signature

(www.moldsign.com)

Nicolae Jelamschi

L.Ș.



(semnătura / подпись)

ANSP/HAO3

0000617



03

SP

10-XVI-09



Изготовитель ООО "Черкасский завод автохимии", Украина, г. Черкассы, ул. В.Чорновола 118, тел. +38 (0472) 64-24-04, 64-04-90

ПАСПОРТ КАЧЕСТВА № 23-5845/1

Жидкость тормозная Dot-4

ТУ У 20.5-2124628712-002:2016 зі зміною 1

Партия №: 23-111-03
Масса нетто, кг Вказано на каністрі

Дата фасовки
Вид и тип тары

08.12.2023
кан п/е 0.9л

№	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид и цвет	Однородная прозрачная жидкость от бесцветного до светло-коричневого цвета без осадка, допускается слабая опалесциция	Соответствует	п. 6.2 ТУ У 20.5-212468712-002:2016 та ДСТУ 2436.1(ГОСТ 2706.1)
2	Вязкость кинематическая, мм ² /с			п. 6.3 ТУ У 20.5-212468712-002:2016 та ДСТУ ГОСТ 33
	-при -30±1 °С, не більше	1800	1,545	
	-при +100±0.5 °С, не менее	1.5	2.5	
3	Низкотемпературные свойства: *			п. 6.4 ТУ У 20.5-212468712-002:2016
	стан рідини після витримки при -(40±2) °Спротягом (6.0±0.5) год.			
	-внешний вид	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесциция	Соответствует	
	-время прохождения пузырька воздуха через слой жидкости при перекалывании сосуда, С, не более	35	28	
4	Температура кипения при давлении 101,3 кПа, °С, не менее	230	233	п. 6.5 ТУ У 20.5-212468712-002:2016
5	Температура кипения увлажненной жидкости при давлении 101,3 кПа, °С, не менее	155	155	п. 6.6 ТУ У 20.5-212468712-002:2016
6	Стабильность при высокой температуре, °С,%, не более	3	2	п. 6.7 ТУ У 20.5-212468712-002:2016
7	Влияние на резину: *			п. 6.8 ТУ У 20.5-212468712-002:2016
	а) изменение объема резины:			
	-марки 7-2462 при (70 ± 2) °С,%, не более или	13	2.6	
	б) изменение внешнего вида резины	Отсутствие клейкости и шелушения	Соответствует	
8	Показатель активности водородных ионов (рН), ед. рН, в пределах	7.0-11.5	8.4	п. 6.9 ТУ У 20.5-212468712-002:2016
9	Взаимодействие с металлами при температуре (100 ± 2) °С в течение (120 ± 2) ч *			п. 6.10 ТУ У 20.5-212468712-002:2016

а) изменение массы пластинок, мг/см ² , не более		
-белая жель	0.2	0.010
-сталь Ст10	0.2	0.04
-алюминиевый сплав Д-16	0.1	-0.04
-чугун СЧ 18-35	0.2	-0.19
-латунь Л-63	0.4	0.23
-медь М-1	0.4	0.09
б) внешний вид пластинок	Отсутствие признаков коррозии в виде точек, шероховатости, видим невооруженным глазом, отсутствие кристаллического осадка. Предполагается налет, легковитраемый хлопчатобумажной и	Соответствует
в) состояние тормозной жидкости	Отсутствие сгусток и кристаллов на стенках сосуда и на пластинках; допускается потемнение	Соответствует
г) значение показателя активности водородных ионов (рН) после испытаний, ед. рН, в пределах	7.0-11.5	8.6

10	Совместимость с водой: *			п. 6.11 ТУ У 20.5-212468712-002:2016
	а) при температурі мінус (30±1) °С протягом (24±2) год.	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция	Соответствует	
	-внешний вид	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция	Соответствует	
	-время прохождения пузырька воздуха через слой жидкости при перекадывании сосуда, С, не более	10	6	
	б) при температуре (60 ± 2) ° С в течение (24 ± 2) ч			
	-внешний вид	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция	Соответствует	
11	Массовая доля механических примесей *	Отсутствие	Соответствует	п. 6.12 ТУ У 20.5-212468712-002:2016

***Согласно протокола периодических испытаний № 23-31 п.и от 06.06.2023**

Гарантийний строк зберігання – 3 роки

Висновок: відповідає вимогам ТУ У 20.5-212468712-002:2016 зі зміною 1

Відповідальний за аналіз Суржикова Н. Л.

Подпись

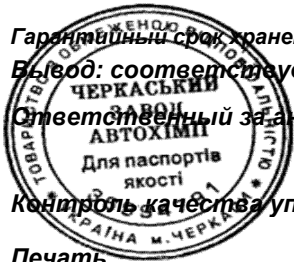


Контроль якості упаковки

Подпись



Печать



AVIZ SANITAR
PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P-17027/2023
Санитарное заключение для пищевых и непищевых продуктов
din/от 14 aprilie 2023

Prin prezentul aviz sanitar se confirmă că producerea, importul, utilizarea și desfacerea produselor / echipamentelor
Настоящим санитарным заключением подтверждается что производство, ввоз, использование и реализация продукции / оборудования
Soluție de spălat parbriz "IARNA" -20 C, -30 C; Soluție de spălat parbriz "VARA", lichid pentru aprinderea focului

sunt conforme Regulamentului (lor) sanitar (e) / соответствуют санитарному (ым) регламенту (ам) (se va indica denumirea completă a
Regulamentului (lor) sanitar (e) / указать полное наименование санитарного (ых) регламента (ов))
SF 41279445-001:2020, IT MD 41279445-001:2020, SM GOST R 51696:2003 Produse chimice de uz casnic

Organizația-producătoare/importatoare, țara de origine / организация произв./импортер, страна происхождения

"AMID-AUTO" SRL, Republica Moldova

Destinatarul avizului sanitar / получатель санитарного заключения

AMID-AUTO S.R.L. , Republica Moldova, mun. Chișinău, sec. Botanica, str. Independenței, 42, ap./of. 20

Temei pentru recunoașterea conformității produselor Regulamentului (lor) sanitar (e) menționat (e) a servit /

Основанием для признания продукции указанному (ым) санитарному (ым) регламенту (ам) послужило

Demers, autorizație sanitară de funcționare, standard de firmă, instrucțiune tehnologică, rețeta, raport de încercări nr.69 din 17.05.2022, rapoarte a încercărilor de laborator nr.51007043-51007046 din 06.04.2023, din 11.04.2023

(a enumera documentele de însoțire, buletinele de analiză / перечислить сопроводительные док., протоколы исслед.)

Caracteristica sanitară a produselor / санитарная характеристика продукции:

Parametrii (factorii) / показатели (факторы)

Normativul sanitar / санитарный норматив

conform rapoartelor încercărilor de laborator nr.51007043-51007046 din 06.04.2023, din 11.04.2023

Domeniu de utilizare / Область применения:

întreținere auto

Condițiile necesare de utilizare, depozitare, transportare, măsurile de securitate / Необходимые условия использования, хранения, транспортировки, меры безопасности:

producerea, plasarea pe piață în condițiile respectării legislației în vigoare în Republica Moldova

AVIZUL SANITAR este valabil pînă la / Санитарное заключение действительно до: 30.04.2026

DIRECTORUL AGENȚIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ

Digitally signed by Jelamschi Nicolae

Date: 2023.04.14 11:46:18 EEST

Reason: MoldSign Signature

Location: Moldova

Nicolae Jelamschi



	<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.: 2024140
Date of issue: 25/01/2024

Test sample

Product: AVTOIL ISO 32 (HVLP)
Batch number: 2401140
Tank ID: T41.2

Manufacture date: 25/01/2024
Date of sampling: 25/01/2024
Date of analysis: 25/01/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 40 °C	mm ² /s	ASTM D445	28.8-35.2	30.25	Pass
Viscosity index	-	ASTM D2270	Min. 130	147	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 180	218	Pass
Pour Point	°C	ASTM D97	Max. -36	-39	Pass
Color	-	ASTM D1500	Test & Report	0.3	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Test & Report	0.8514	Pass

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

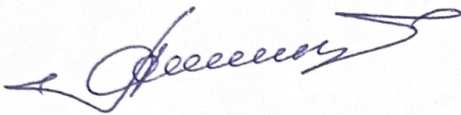
Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

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.

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
Chemical Engineer

