

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.:**202307994  
**Date of issue:** 06/07/2023

### Test sample

**Product:** AVTOIL 15W40 CI-4/SL  
**Material ID:** M0000164  
**Date of sampling:** 06/07/2023

**Manufacture date:** 06/07/2023  
**Batch number:** 2307994  
**Tank ID:** T41.4

### 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 <sup>2</sup> /s	14.17	12.5-16.3	ASTM D445	Pass
Viscosity index	-	145	Min. 130	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	234	Min. 210	ASTM D92	Pass
Pour Point	°C	-30	Max. -27	ASTM D97	Pass
TBN	mg KOH/g	9.65	Min. 9.0	ASTM D2896	Pass
Color	-	2.1	Test & Report	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8696	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 signatory**



Matilda Yusifova  
**Head of Laboratory**

	<p style="text-align: center;"><b>ALCO QUALITY ASSURANCE LABORATORY TEST REPORT</b></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.:** 2024178  
**Date of issue:** 03/02/2024

**Test sample**

**Product:** AVTOIL 80W90 GL-5  
**Batch number:** 2402178  
**Tank ID:** T41.4

**Manufacture date:** 03/02/2024  
**Date of sampling:** 03/02/2024  
**Date of analysis:** 03/02/2024

**Test result**

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	ASTM D445	13.50-18.50	14.56	Pass
Viscosity index	-	ASTM D2270	Min. 90	94	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 210	240	Pass
Pour Point	°C	ASTM D97	Max. -18	-21	Pass
Color	-	ASTM D1500	Test & Report	3.5	Pass
Density at 20 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8865	Pass

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

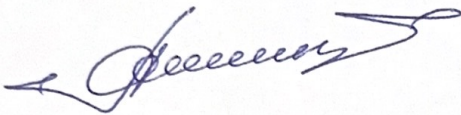
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Allahverdiyeva Aytan  
Head of Laboratory



Isgandarli Nazrin  
Chemical Engineer



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

**Certificate No.:** 2023071024  
**Date of issue:** 07/07/2023

### Test sample

**Product:** AVTOIL INDUSTRIAL HYDRAULIC I-20A  
**Material ID:** M0000174  
**Date of sampling:** 07/07/2023

**Manufacture date:** 07/07/2023  
**Batch number:** 23071024  
**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 40 °C	mm <sup>2</sup> /s	30.12	29.0-35.0	ASTM D445	Pass
Viscosity index	-	99	Test & Report	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	226	Min. 200	ASTM D92	Pass
Pour Point	°C	-18	Max. -15	ASTM D97	Pass
Color	-	0.3	Max. 1.0	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8677	Max. 0.890	ASTM D4052	Pass

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

**Certificate No.:** 202306896  
**Date of issue:** 19/06/2023

### Test sample

**Product:** AVTOIL INDUSTRIAL HYDRAULIC I-40A  
**Material ID:** T0000174  
**Date of sampling:** 19/06/2023

**Manufacture date:** 19/06/2023  
**Batch number:** 2306896  
**Tank ID:** T41.2

### Test result

**Date of analysis:** 19/06/2023

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	64.64	61.0-75.0	ASTM D445	Pass
TAN	mg KOH/g	0.006	Max. 0.05	ASTM D974	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	230	Min. 220	ASTM D92	Pass
Pour Point	°C	-18	Max. -15	ASTM D97	Pass
Color	-	2.1	Test & Report	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8707	Max. 0.900	ASTM D4052	Pass

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**From: ALCO LLC**  
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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 <sup>2</sup> /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 <sup>3</sup>	0.8843	Max. 0.900	ASTM D4052	Pass

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AZ1095, Baku, Azerbaijan

**Certificate No.:** 202307995  
**Date of issue:** 07/07/2023

### Test sample

**Product:** AVTOIL M-10G2K  
**Material ID:** M00056  
**Date of sampling:** 07/07/2023

**Manufacture date:** 07/07/2023  
**Batch number:** 2307995  
**Tank ID:** T41.1

### 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, min.	mm <sup>2</sup> /s	11.23	10.5-11.5	ASTM D445	Pass
Viscosity index	-	97	Min. 85	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	248	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	-	0.9	Max. 4.0	ГОСТ 20284	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8865	Max. 0.905	ASTM D4052	Pass

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

**Certificate No.:** 202416  
**Date of issue:** 05/01/2024

**Test sample**

**Product:** AVTOIL TAP-15B SAE 90 GL-3  
**Batch number:** 2401016  
**Tank ID:** T41.3

**Manufacture date:** 05/01/2024  
**Date of sampling:** 05/01/2024  
**Date of analysis:** 05/01/2024

**Test result**

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	ASTM D445	14.00-16.00	15.19	Pass
Viscosity index	-	ASTM D2270	Min. 90	93	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 185	254	Pass
Pour Point	°C	ASTM D97	Max. -20	-20	Pass
Density at 20 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8872	Pass

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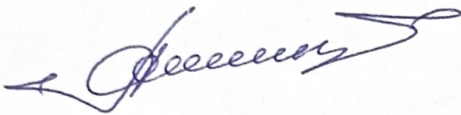
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Chemical Engineer

