

ТОВ «СП ЮКОЙЛ». Завод технічних олив.  
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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 43-22 від 22.11.2022р. видане ДП «ЗАПОРІЖКЯСТАНДАРТМЕТРОЛОГІЯ», чинне до 16.11.2024 р.

## Паспорт якості фасованої продукції №07020.01.01.1 Олива гідравлічна YUKO VMГЗ

Виробник: ТОВ «СП ЮКОЙЛ» за ТУ У 23.2-31852954-003-2003  
Розфасовано: ТОВ «СП ЮКОЙЛ» за ТУ У 23.2-31852954-027:2006  
Клас в'язкості: **ISO 15**  
Клас експлуатаційних властивостей: ISO 6743-4 HV; DIN 51524-3 HVLP



Дата виготовлення: Лютий 2024р.  
Тара: канистра 20л ПЕ; об'єм партії 100 шт.  
Номер партії: 07020.12.02.24.01.

Ф.5 СТП014

Назва показника	Вимоги НД	Фактично	Метод випробувань
Густина при 20°C, кг/м <sup>3</sup> , не більше	895	839,3	ГОСТ 3900 або ASTM D1298
В'язкість кінематична: мм <sup>2</sup> /с			ДСТУ ГОСТ 33 або ASTM D445
- при 50°C	Не менше 10,0	11,13	
Індекс в'язкості, не менше	110	143	ДСТУ ГОСТ 25371 або ASTM D2270
Температура спалаху, визначена у відкритому тиглі, °C, не нижче	135	165	ДСТУ ГОСТ 4333 або ASTM D92
Температура застигання, °C, не вище	- 50	- 50	ГОСТ 20287 або ASTM D97
Масова частка механічних домішок, %, не більше	Відсутність	Відсутність	ГОСТ 6370
Масова частка води, %, не більше	Відсутність	Відсутність	ГОСТ 2477 або ASTM D95
Колір на колориметрі ЦНТ, одиниць ЦНТ, не більше	2,5	1,0	ГОСТ 20284 або ASTM D1500
Випробування на корозію	Витримує	Витримує	ГОСТ 2917 з доп. за п. 6.3 цих ТУ або ASTM D130
Зміна маси резини марки УИМ-1 після випробування в оливі протягом 72 год., при 100°C, %	4,0 - 7,5	4,6	ГОСТ 9.030, метод А

Паспорт якості дійсний тільки за наявності печатки.

Висновок: якість продукції відповідає вимогам нормативної документації

Гарантійний термін зберігання - 3 роки



Начальник ВТК

Анна ЛАРЧЕНКО



## Hydrauliköl HVLP 46

### SPECIFICATIONS

ISO: HV  
DIN: 51524 Teil 3

### APPROVALS AND CONFORMITY

BOSCH Rexroth SEB 181222 ANFOR NF E 48-603 (HM, HV) SIS SS 155434 Denison Filterability TP 02100  
Hoesch HWN 2333 U.S.Steel 126 u., 127 CETOP RP 91 H (HM, HV) Sperry Vickers M-3950-S u., I-286-S  
FZG-Test A 8,3/90 12

### CHARACTERISTICS

- Excellent protection against wear and aging;
- High shear stability and oxidation resistance;
- Improved protection against bullying;
- Excellent viscosity-temperature properties;
- All-season characteristic;
- Improved corrosion protection;
- Excellent demulsibility.

### EFFECTS

- Uninterrupted operation even in systems made of different metals;
- Long oil life;
- Reducing wear and tear under severe operating conditions, especially when impact loads;
- Designed mainly for equipment operating in a cold climate (mountainous terrain, winter sports zones, winter road service, refrigerators, freezers);
- Reduced assortment of used lubricants - simplification of orders and logistics;
- Long service life of equipment;
- Protection against penetrating water.

### DISPOSAL

- Wolver Hydrauliköl HVLP 46 is assigned to category 2 of used oils and thus is free for disposal.

## TYPICALS

Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	46.4
Viscosity index , -	133
Pour point, °C	-42
Total acid number, mgKOH/g	0.9
Flash point , °C	212
Density at 15.6 °C, kg/m <sup>3</sup>	874

## DESCRIPTION

Wolver Hydraulik HVLP 46 – it is zinc-containing working fluids on a mineral basis, which have excellent viscosity-temperature properties and a corresponding all-season characteristic. Due to this, the maximum smoothness of the hydraulic system operation is guaranteed, even under extreme temperature fluctuations and when the system is started up.

### Application

- Designed for modern hydraulic systems;
- Particularly recommended for hydraulic systems operating year-round in the open air;
- Recommended for systems subject to strong temperature fluctuations (barriers, baling presses, sluices, dams);
- They are used in hydrostatic systems of construction machines, forklift trucks, container trucks and municipal vehicles.

	<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.:** 2024864  
**Date of issue:** 05/06/2024

**Test sample**

**Product:** AVTOIL ATF III RED  
**Batch number:** 2406864  
**Tank ID:** T41.1

**Manufacture date:** 05/06/2024  
**Date of sampling:** 05/06/2024  
**Date of analysis:** 05/06/2024

**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	Min. 7.000	8.374	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 185	236	Pass
Color	-	ASTM D1500	RED	RED	Pass
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8747	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  
Lead Chemical Engineer



	<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.:** 20241042  
**Date of issue:** 05/07/2024

**Test sample**

**Product:** AVTOIL INDUSTRIAL HYDRAULIC I-20A  
**Batch number:** 24071042  
**Tank ID:** T45.2

**Manufacture date:** 02/07/2024  
**Date of sampling:** 02/07/2024  
**Date of analysis:** 02/07/2024

**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	4.5-5.5	5.400	Pass
Kinematic viscosity at 40 °C	mm <sup>2</sup> /s	ASTM D445	Test & Report	29.83	Pass
Viscosity index	-	ASTM D2270	Min. 90	107	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 190	230	Pass
Pour Point	°C	ASTM D97	Max. -10	-12	Pass
Color	-	ASTM D1500	Max. 1.0	1.0	Pass
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test&Report	0.8532	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



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**Authorised signatory**

Allahverdiyeva Aytan  
Head of Laboratory

Isgandarli Nazrin  
Lead Chemical Engineer

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

**Certificate No.:** 20241041  
**Date of issue:** 05/07/2024

**Test sample**

**Product:** AVTOIL INDUSTRIAL HYDRAULIC I-40A  
**Batch number:** 24071041  
**Tank ID:** T45.2

**Manufacture date:** 02/07/2024  
**Date of sampling:** 02/07/2024  
**Date of analysis:** 02/07/2024

**Test result**

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 40 °C	mm <sup>2</sup> /s	ASTM D445	61.0-75.0	62.31	Pass
TAN	mg KOH/g	ASTM D974	Max. 0.05	0.003	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 220	232	Pass
Pour Point	°C	ASTM D97	Max. -15	<-18	Pass
Color	-	ASTM D1500	Max. 3.0	1.0	Pass
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test&Report	0.8770	Pass

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

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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.

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