



CERTIFICATE OF ANALYSES № 25005629

Altron Hydraulic 68

STO 84035624-001-2014 revision 1-3

Management system of the company certified for compliance the standards

ISO 9001: 2015, ISO 14001: 2015, ISO 45001:2018

Date of manufacture: 26.05.2025

Sampling date: 26.05.2025

Test date: 26.05.2025

	Indicator name	Test method	TR of the CU Limit	ND Limit	Analyses result
1	Kinematic viscosity at 40°C, mm ² /c in range	GOST 33	-	61,20-74,80	67,75
	Viscosity Index, min	GOST 25371	-	90	92
	Total acid number, mg KOH/g, max	GOST 11362	-	1,0	0,8
	Water content, wt%, max	GOST 2477		Traces	Traces
	Flash Point COC, °C, min	GOST 4333	135	220	254
2	Pour Point, °C max	GOST 20287	-	Minus 15	Minus 27
	Color, max	GOST 20284		3,0	2,0
	Mechanical impurities, wt %, max	GOST 6370	0.03	Absence	Absence
	Copper corrosion, max	GOST2917		1b	1b
3	Zinc content, wt%, in range	GOST 13538	-	Not standardized, the definition necessarily	0,05
4	Water separability characteristics: - separation, minutes, max.: - volume of layers, ml: oil, max water, min emulsion, max	ASTM D 1401	-	30 43 37 0	15 42 38 0
5	Foaming tendency, ml, max Seq. I Seq. II Seq. III	ASTM D 892	-	50 50 50	10 20 10
6	Foam stability, ml, max: Seq. I Seq. II Seq. III	ASTM D 892	-	5 5 5	0 0 0
7	Density, kg/m ³ at 20 °C at 15 °C	GOST 3900 GOST R 51069	-	Not standardized, the definition necessarily Not standardized, the definition necessarily	882,7 886,2
8	Appearance	Visual	-	Bright and clear liquid without foreign substances	Bright and clear liquid without foreign substances
9	Self-ignition point, °C, min	GOST 12.1.044	165	165	366

Conclusion: Hydraulic oil -68 complies with the requirements of the Technical Regulations of the Customs Union (TR CU 030/2012) "On the requirements for lubricants, oils and special liquids", and STO 84035624-001-2014, revision 1-3. Technical requirements" with change 1.

Shelf life- 5 years from the date of production

ANNEX to CERTIFICATE OF ANALYSES № 25005629
Hydraulic 68

	Indicator name	Test method	Actual values/Result
1	Fractional composition: -boiling point, °C -distilled to a temperature of 250 °C, % vol. -distilled to a temperature of 300 °C, % vol. -distilled to a temperature of 350 °C, % vol.	ISO 3405 (equivalent to ASTM D 86) ¹⁾	Cannot be determined ²⁾
2	Temperature at which 65% of voluminous oil fractions or less voluminous oil fractions (including losses) distilled	ISO 3405 (equivalent to ASTM D 86) ¹⁾	Cannot be determined ²⁾
3	Sulfate ash content, % by weight	ISO 3987 (equivalent to GOST 12417)	0,03
4	Saponification index, mg KOH/g	ISO 6293-1/2 (GOST 17362)	0,5
5	Pour point, °C	ISO 3016 (GOST 20287 method A)	- 25
6	Colorimetric characteristic (K) in solution, units ASTM	ISO 2049 (equivalent to ASTM D 1500)	0,5
7	Kinematic viscosity at 50 °C, mm ² /s	EN ISO 3104 (GOST 33)	42,70
8	Kinematic viscosity at 100 °C, mm ² /s	EN ISO 3104 (GOST 33)	8,38

Additional information:

- 1) Method is intended to determine the fractional composition of light and middle distillates and is not applicable to oils
- 2) Boiling point and distillation percentage cannot be determined correctly because when heated at atmospheric pressure, the product begins to decompose

Date of Certificate of Analyses № 25005629 dated 26.05.2025 6:08:49

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