

 <p><b>INDUSTRIJA NAFTE, d.d.</b> Exploration &amp; Production Field Development &amp; Geothermal energy Exploration &amp; Production Laboratory</p>	<p><b>THE LIST OF THE TEST METHODS IN THE FLEXIBLE SCOPE OF ACCREDITATION IN THE EXPLORATION AND PRODUCTION LABORATORY</b></p>	<p>50000368-1004/226</p>
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	Materials/Products	Test technique	Type of test/Property	Range	Test method	In use from
1.	Lubricating oils	Cleveland open cup method	Determination of flash point by Cleveland open cup method	79°C - 400°C	ASTM D92-24	02.4.2025.
2.					HRN EN ISO 2592:2017 (ISO 2592:2017; EN ISO 2592:2017)	20.3.2018.
3.	Lubricating oils	Determination of density and relative density of liquids by digital density analyser	Determination of density and relative density of liquids by digital density analyser	0,80 g/mL - 0,88 g/mL	ASTM D4052-22	15.6.2022.
4.	Crude oil			0,75 g/mL - 0,95 g/mL	ASTM D5002-22	15.6.2022.
5.	Crude oil, Aqueous solutions of Ethylene Glycol	Determination of density and relative density of liquids by digital density analyser	Determination of density and relative density of liquids by digital density analyser	600 kg/m <sup>3</sup> - 1100 kg/m <sup>3</sup>	HRN EN ISO 12185:2024 (ISO 12185:2024; EN ISO 12185:2024)	04.9.2024.

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6. Crude oil, lubricating oils*	Stabinger viscosimeter	<i>Standard test Method for Dynamic Viscosity and Density of Liquids by Stabinger Viscosimeter (and Calculation of Kinematic Viscosity)</i>	40,164 mm <sup>2</sup> /s-150,71 mm <sup>2</sup> /s (40°C) 6,4682 mm <sup>2</sup> /s do 48,22 mm <sup>2</sup> /s (100°C) 0,82989 g/mL do 0,87300 g/mL (40°C) 0,79192 g/mL do 0,83512 g/mL (100°C)	<b>ASTM D7042-25</b>	26.5.2025.
7. Crude oil, lubricating oils, additives for crude oil	Pour point analyser (with cooling bath)	<i>Determination of pour point</i>	-36 °C - +48 °C	<b>ASTM D97-17b (2022)</b>	05.12.2022.
8. Lubricating oils, additives for crude oil				<b>HRN EN ISO 3016:2019 (ISO 3016:2019: EN ISO 3016:2019)</b>	09.6.2020.

\*Remark: Test range according to ASTM D7042-25 for lubricating oils.

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9. Lubricating oils	Coulometric titration by Karl Fischer	Determination of water by coulometric Karl Fischer titration	30 mg/kg - 2100 mg/kg	ASTM D6304-25 (Procedure B)	8.1.2026.
10. Crude oil			0,02 mas. % - 5,00 mas. %		ASTM D4928-24

Activity	Name and Surname / Signature	Function	Date
Approval	Jasmina Jelić-Balta, PhD 	E&P Laboratory Director	08.01.2026.