

## LUKOIL AVANTGARDE PROFESSIONAL LE 10W-40

Synthetic, high-quality, ultra-high-performance (UHPD), low-ash diesel engine oil for commercial vehicles EURO V&VI, with DPF

### Approvals

- API CJ-4
- Cummins CES 20081
- Deutz DQC IV-10 LA
- Mack EO-O Premium Plus
- MAN M 3575/ M 3477/ M 3271-1
- MTU Oil Category 3.1
- Renault VI RLD-3
- Scania LA
- VOLVO VDS-4

### Meets requirements

- ACEA E4/ E6/ E7/ E9
- Caterpillar ECF-3
- DAF Euro III-VI
- Detroit Diesel DDC 93K218
- IVECO Euro VI
- JASO DH-2
- MB 228.51/ 228.31
- MTU Oil Category 2.1
- Renault RLD/ RD-2/ RD

### Product description

High-quality, ultra-high-performance, synthetic, low-ash, multigrade engine oil for commercial vehicles designed to comply with strict exhaust gas emissions limits. The innovative formulation was specially designed for diesel engines of commercial vehicles equipped with Selective Catalytic Reductor (SCR) system and Diesel Particulate Filter (DPF), according to emissions regulations EURO V & VI. Also usable in EURO I, II, III & IV engines.

It provides significant reduction of the particle emissions, resulting in longer particulate filter lifespan and maximum protection of the environment. Its advanced additive technology guarantees maximum drain intervals, rapid lubrication and long engine lifespan.

### Application

LUKOIL AVANTGARDE PROFESSIONAL LE 10W-40 was developed as a top product for use in a modern, mixed vehicle fleet, in accordance with the instructions from the vehicle manual.

### Typical test data

The information given in the typical data does not constitute a specification and can be affected by allowable production tolerances. The right to make modifications is reserved by LUKOIL LUBRICANTS EAST EUROPE SRL.

Property	Test methods	Value
Density at 15°C, kg/m <sup>3</sup>	ASTM D 7042	854
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	ASTM D 7042	82.7
Kinematic viscosity at 100 °C, mm <sup>2</sup> /s	ASTM D 7042	13.5
Viscosity index	ASTM D 7042/ SR ISO 2909	166
TBN, mgKOH/g	ASTM D 2896	12.4
Sulphated ash, %	ASTM D 874/ SR ISO 3987+C1	0.95
Apparent viscosity CCS at -25°C, mPa.s	ASTM D 5293	4064
Apparent viscosity MRV at -30°C, mPa.s	ASTM D 4684	26090
Pour Point, °C	ASTM D 97/ SR 13552	-35

### Shelf life and storage

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When stored in the original unopened containers in a dry place, this product has a shelf life of 5 years from the date of production.

### Safety, Health, Environment

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This product doesn't contain any toxic ingredients. During storage, transportation and application of this product, the safety rules for handling lubricating materials and the environment protection regulations must be observed. For further information on how to use LUKOIL products, please refer to the material safety data sheet.

**LABORATOR LUBRIFIANT/ LUBRICANTS LABORATORY**

Ploiesti, Str. Mihai Bravu, Nr. 235, Jud. Prahova; Tel: +40244 504 358; Fax: +40244 504 679;  
Laborator.llee@eu.lukoil.com

acreditat pentru  
INCERCARE

SR EN ISO/IEC 17025:2018  
CERTIFICAT DE ACREDITARE  
LI 1200

**RAPORT DE INCERCARE (TEST REPORT)**

Nr.:

**973**

Data:

**04.08.2021**

Client (Customer)

Sectia Amestec/Blending Sector

LUKOIL LUBRICANTS EAST EUROPE

Produs (Product)

Ulei universal de motor pentru toate anotimpurile  
**LUKOIL AVANTGARDE PROFESSIONAL LE 10W-40**  
Universal all season motor oil  
**LUKOIL AVANTGARDE PROFESSIONAL LE 10W-40**

Document normativ (Normative doc)

ST 1 – 2020,ed.5

Numar Comanda (Order number)

982

Cod proba (Cod sample)

Lot(Batch)

2718 / Lot/Batch 969

Proba prelevata de (Sampling by)

Client (By customer)

Data primire proba (Receive date)

04.08.2021

Nr. crt. No	Caracteristici (Characteristics)	U.M. (U.M.)	Valoare prevazuta (Standard limits)	Valoare determinata (Obtained value)	Metoda de incercare (Test Method)	Incertitudine (Uncertainty) **
1	Densitate la 15°C / <b>Density at 15°C</b> Densitate la 20°C / <b>Density at 20°C</b>	g/cm <sup>3</sup>	se raporteaza report	0,8540 0,8510	ASTM D 7042-21	
2	Viscozitatea cinematica la 40°C <b>Kinematic viscosity at 40°C</b>	mm <sup>2</sup> /s	se raporteaza report	86,78	ASTM D 7042-21	
3	Viscozitatea cinematica la 100°C <b>Kinematic viscosity at 100°C</b>	mm <sup>2</sup> /s	12,5 + 16,3	14,27	ASTM D 7042-21	
4	Indice de viscozitate <b>Viscosity index</b>	-	min 120	171	ASTM D 7042-21 ASTM D 2270-10(16) SR ISO 2909-12	
5	Cifra de bazicitate totala <b>Total Base Number</b>	mgKOH/g	min 10,0	10,5	ASTM D 2896-15	
6	# Punct de inflamare in vas deschis <b>Flash point, COC</b>	°C	min 215	223	SR EN ISO 2592-18 ASTM D 92-18	
7	Punct de curgere <b>Pour point</b>	°C	max. -35	-35	SR 13552-12 ASTM D 97-17b	
8	*Viscozitate aparenta la temperaturi scazute CCS la -25°C / <b>Apparent viscosity CCS at -25°C</b>	mPa·s	max 7000	3980	ASTM D 5293-20	
9	*Viscozitate aparenta la temperaturi scazute la -30°C / <b>Apparent viscosity MRV at -30°C</b>	mPa·s	max 60000	26100	ASTM D 4684-18	
10	# *Cenusa sulfatata / <b>Sulfated ash</b>	%	max 1,0	0,93	ASTM D 874-13a(2018)	
11	# *Volatilitate Noack / <b>Noack volatility</b>	%	max 12	9,3	ASTM D 5800-18a	
12	# Continut de sulf <b>Sulf content</b>	%	max 0,3	0,27	SR EN ISO 8754-04 ASTM D 4294-16e1	
13	Caracteristici de spumare: tendinta-stabilitate <b>Foaming characteristics: tendency-stability</b> - la 24°C / <b>at 24°C</b> - la 93,5°C / <b>at 93,5°C</b> - la 24°C, dupa 93,5°C / <b>at 24°C, after test at 93,5°C</b>	ml ml ml	max 10-0 20-0 10-0	10-0 10-0 10-0	ASTM D 892-18	

Observatii (Remarks): .....

\* Garantie prin tehnologie (Guaranteed by technology).

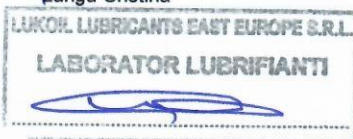
\*\* Incertitudinea raportata la solicitarea clientului (Uncertainty related to customer demand).

# Incercare neacreditata (Test not accredited).

Verificat/Aprobat (Approved by):  
Sef Laborator (Laboratory Chief)  
Lungu Cristina

Intocmit: (Performed by):

Catargiu Daniela



Note: 1) Raportul de incercari se refera numai la proba supusa incercarii/ The test report refer only to tested sample.

2) Reproducerea partiala a raportului de incercari este interzisa/ Any partial reproduction of report is forbidden.

Cod FL-7.8-01,ed1



**DECLARATIE DE CONFORMITATE/CONFORMITY STATEMENT**
**Nr./No: 864 Data/Date: 04.08.2021**

Noi,

Numele furnizorului: LUKOIL LUBRICANTS EAST EUROPE S.R.L

Adresa furnizorului: Str. Mihai Bravu, nr. 235, Ploiesti, jud. Prahova, Romania

Nr. de inregistrare la Registrul Comertului: J29/1451/0810.2015

Asiguram, garantam si declaram pe propria raspundere, prin prezentul document, ca produsul la care se refera aceasta declaratie este in conformitate cu cerintele specificate in documentul normativ specificat mai jos:

We,

Supplier Name: LUKOIL LUBRICANTS EAST EUROPE S.R.L

Supplier Address: Ploiesti, 235 Mihai Bravu Street, Prahova County, Romania

Registration number at the Commerce Registry: J29/1451/0810.2015

Assure, guarantee and declare on our own responsibility, in this document, that the product to which this declaration relates is in compliance with the requirements specified in the regulatory document specified below:

Denumire produs Product name	Lot, Rez./Lot, Tank Ambalaj/Pack	Titlul si numarul documentului normativ Title and no. of the normative document
<b>LUKOIL AVANTGARDE PROFESSIONAL LE 10W-40</b>	<b>Lot 969</b>	Ulei universal de motor pentru toate anotimpurile Universal all season motor oil
		<b>ST 1 - 2020,ed.5</b>

<b>Certificat de Valabilitate Certificate of Validity</b>	Perioada de valabilitate a produsului in depozitare este 5 ani de la data fabricatiei, in conditiile respectarii cerintelor de ambalare, depozitare, transport si manipulare. <i>Shelf life of product in storage is 5 years from date of manufacture, in compliance with the requirements for packaging, storage, transport and handling.</i>
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Certificat de Conformitate RAR-OCP Certificate of statement RAR-OCP	Nr. 718, valabil pana la 23.03.2022 No. 718, valid to 23.03.2022
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Raport de Incercare / Test report	973	Data / Date	04.08.2021
Client / Customer			
Data livrării / Delivery date			
Factura/Aviz expedite/Scrisoare trasura / Invoice/Delivery note/Car licence plate			
Cantitate / Quantity			
Mijloc de transport / Transport			

LUKOIL LUBRICANTS EAST EUROPE  
PANAIT Luminita



Cod DC/2013, ed.2

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