

LABORATOR LUBRIFIANTII/ LUBRICANTS LABORATORY

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 acreditat pentru
ÎNCERCARE

 SR EN ISO/CEI 17025:2005
CERTIFICAT DE ACREDITARE
LI 1200

RAPORT DE ÎNCERCARE (TEST REPORT)

Nr.:

112

Data:

29.01.2020

Client (Customer)		Sectia Amestec/Blending Sector		LUKOIL LUBRICANTS EAST EUROPE		
Produs (Product)		Ulei universal de motor pentru toate anotimpurile LUKOIL AVANTGARDE EXTRA 15W-40 Universal all season motor oil LUKOIL AVANTGARDE EXTRA 15W-40				
Document normativ (Normative doc)		ST 1 - 2016				
Numar Comanda (Order number)		104				
Cod proba (Cod sample) / Lot(Batch)		321 / Lot /Batch 1				
Proba prelevata de (Sampling by)		Client (By customer)				
Data primire proba (Receive date)		29.01.2020				
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	# Aspect / Aspect	-	Clar/Clean	Clar/Clean	vizual	
2	Densitate la 15°C / Density at 15°C Densitate la 20°C / Density at 20°C	g/cm³	se raporteaza report	0,8841 0,8811	ASTM D 7042-16e3	
3	Viscozitatea cinematica la 100°C Kinematic viscosity at 100 °C	mm²/s	14,0 ÷ 16,3	14,49	ASTM D 7042-16e3	
4	Viscozitatea cinematica la 40°C Kinematic viscosity at 40 °C	mm²/s	se raporteaza report	109,6	ASTM D 7042-16e3	
5	Indice de viscozitate Viscosity index	-	min 120	135	ASTM D 7042-16e3 ASTM 2270-10(16) SR ISO 2909-12	
6	*Viscozitate aparenta la temperaturi scazute CCS la -20°C/ Apparent viscosity CCS at -20°C	mPa.s	max 7000	6860	ASTM D 5293-17a	
7	# *Viscozitate aparenta la temperaturi scazute la -25°C / Apparent viscosity MRV at -25°C	mPa.s	max 60 000	27600	ASTM D 4684-18	
8	# Punct de inflamare in vas deschis Flash point, COC	°C	min 210	222	SR EN ISO 2592-18 ASTM D 92-18	
9	Punct de curgere Pour point	°C	max. -30	-30	SR 13552-12 ASTM D 97-17b	
10	# *Volatilitate Noack / Noack volatility	%	max 13	11,7	ASTM D 5800-18a	
11	Cifra de bazicitate totala Total Base Number	mgKOH/g	min 8,0	9,1	ASTM D 2896-15	
12	# * Continut de Calciu Calcium content	%	se raporteaza report	0,29	STAS 8428-69	
13	# * Continut de Zinc Zinc content	%	se raporteaza report	0,13	STAS 7717-81	
14	# *Continut de fosfor / Phosphorus content	%	max 0,14	0,11	STAS 7330-83	
15	# Continut de apa Water content	%	lipsa nil	lipsa nil	SR13484-12 ASTM D 95-13e1	
16	# *Cenusa sulfatata / Sulfated ash	%	max 1,5	1,1	ASTM D 874-13a	
17	Caracteristici de spumare: tendinta-stabilitate Foaming characteristics: tendency-stability - la 24°C / at 24°C - la 93,5°C / at 93,5°C - la 24°C, dupa 93,5°C/ at 24°C, after test at 93,5°C	ml ml ml	max 10-0 20-0 10-0	10-0 10-0 10-0	ASTM D 892-18	
18	# * Viscozitate la temperatura si forfecare inalta (HTHS) ,la 150 °C / Viscosity temperature and high shear (HTHS) mPa.s at 150°C	mPa.s	min 3,7	*	ASTM D 4741 (CEC – L-36 – A – 90)	

Observatii (Remarks) :

* Garantate 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



 LUKOIL LUBRICANTS EAST EUROPE S.R.L.
LABORATOR LUBRIFIANTI

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