

LUKOIL AVANTGARDE EXTRA SAE 10W-30, 10W-40, 15W-40, 20W-50, API CH-4/CG-4/SJ

Series of modern diesel engine oils

APPROVALS

API CH-4/SJ-licensed (SAE 15W-40)
MB-Approval 228.3 (SAE 15W-40)
KAMAZ PTC
JSC AVTODIZEL (YaMZ)
JSC "Tutaev motor plant" (SAE 10W-40, 15W-40)
Cummins CES 20077 (SAE 15W-40)

MEETS REQUIREMENTS

API CH-4/CG-4/SJ (SAE 10W-30, 10W-40, 20W-50)
API CG-4 (SAE 15W-40)
ACEA E5
MTU Category 2 (SAE 15W-40)
Cummins CES 20071, 20072, 20076 (SAE 15W-40)
Cummins CES 20077 (SAE 10W-40)
MB 228.3 (SAE 10W-30, 10W-40, 20W-50)
MB 228.1 (SAE 15W-40)
MAN M 3275-1 (SAE 10W-40, 15W-40)
Deutz DQC-II (SAE 10W-30, 10W-40, 15W-40, 20W-50)
Volvo VDS-2 (SAE 15W-40)
Renault RLD(SAE 15W-40)
MACK EO-M (SAE 15W-40)

PRODUCT DESCRIPTION

LUKOIL AVANTGARDE EXTRA is a series of high-performance oil for modern diesel engines, including turbo-charged, working in medium and heavy-duty applications. Oils are suitable in high-powered diesel engines of passenger cars, vans and light trucks in accordance with the OEM recommendations.

Oils **LUKOIL AVANTGARDE EXTRA** are formulated using highly refined mineral and high-performance additive package of foreign manufacture.

APPLICATIONS

Diesel engines which are widely used in road transport and off-road equipment.

The product name in an order:

Motor oil LUKOIL AVANTGARDE EXTRA SAE 10W-30, API CH-4/CG-4/SJ, STO 00044434-026-2013

Motor oil LUKOIL AVANTGARDE EXTRA semi-synthetic SAE 10W-40, API CH-4/CG-4/SJ, STO 00044434-026-2013

Motor oil LUKOIL AVANTGARDE EXTRA SAE 15W-40, API CH-4/CG-4/SJ, STO 00044434-026-2013

Motor oil LUKOIL AVANTGARDE EXTRA SAE 20W-50, API CH-4/CG-4/SJ, STO 00044434-026-2013

TYPICAL TEST DATA

PROPERTY	Test methods	LUKOIL AVANTGARDE EXTRA			
		10W-30	10W-40	15W-40	20W-50
Density at 15 °C, kg/m ³	GOST R 51069 / ASTM D4052 / ASTM D1298	870.2	869.2	892.1	880.2
Kinematic viscosity at 100 °C, mm ² /s	GOST 33 / ASTM D445 / GOST R 53708	10.6	14.3	14.7	17.2
Kinematic viscosity at 40 °C, mm ² /s	GOST 25371 / ASTM D2270	71.1	92.1	110.1	155.0
Viscosity Index	ASTM D5293 / GOST R 52559	147	157	142	142
Cold Cranking Viscosity (CCS) , mPa·s	ASTM D4684 / GOST R 52257	5,780	6,290	6,740	3,770
		(at -25 °C)	(at -25 °C)	(at -20 °C)	(at -15°C)
Borderline Pumpability (MRV), mPa·s	GOST 11362	21,800	33,200	36,800	16,300
		(at -30 °C)	(at -30 °C)	(at -25 °C)	(at -20 °C)
Total Base Number, mg KOH/1 g oil	GOST 30050 / ASTM D2896	6.0	6.0	6.0	6.0
Sulphated ash, %	GOST 12417 / ASTM D874	1.0	1.0	1.0	1.0
Noack evaporation loss, %	ASTM D5800 / DIN 51581-1	14.0	13.94	12.44	11.33
Flash Point, COC, °C	GOST 4333 / ASTM D92	218	220	222	222
Pour Point, °C	GOST 20287 B	-37	-35	-32	-30

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved by OOO "LLK-International".