

## LUKOIL AVANTGARDE PROFESSIONAL M5 5W-30

Multigrade synthetic technology engine oil for heavy-duty diesel engines

### Specifications

- API CI-4/SL
- MB 228.5
- ACEA E4/E7
- VOLVO VDS-3
- Caterpillar ECF-2
- MTU Oil Category 3
- Cummins CES 20078
- JASO DH-1
- Renault VI RLD-2
- Mack EO-N
- MAN M 3277
- Deutz DQC III-18

### Product description

Multigrade synthetic technology engine oil specially developed to meet the requirements of the world's leading engine manufacturers standards. It is formulated with purified synthetic base oils and high-performance additive package.

### Application

It is recommended for use in diesel engines without particulate filters (DPF) and is suitable for use in some engines, equipped with EGR and SCR NOx reduction systems. Designed for diesel engines up to Euro-5 ecological standard, where API CI-4 performance level is required.

### Benefits

#### ENGINE CLEANLINESS

Improved detergency and dispersancy

#### EASY COLD START

Provides easy cold start at low temperatures

#### MAXIMUM PROTECTION

Provides excellent protection against wear in severe operating conditions

#### OXIDATION RESISTANCE

Outstanding thermal and oxidation stability and hence increased drain interval

The product name in an order: Motor oil LUKOIL AVANTGARDE PROFESSIONAL M5 SAE 5W-30, STO 00044434-017-2010

### 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 OOO «LLK-International»

Property	Test methods	Value
Density at 15 °C, kg/m <sup>3</sup>	ASTM D1298 / ASTM D4052	857
Kinematic viscosity at 100 °C, mm <sup>2</sup> /s	ASTM D445	11.9
Viscosity index	ASTM D2270	161
Dynamic viscosity (CCS) at -30°C, mPa·s	ASTM D5293 / GOST R 52559	4,950
Total Base Number, mg KOH/1 g oil	ASTM D2896	13.5
Pour Point, °C	GOST 20287 B	-42
Flash Point, COC, °C	ASTM D92	224
Sulphated ash, %	ASTM D874	1.46
Noack evaporation loss, %	ASTM D5800 / DIN 51581-1	10.3