

## LUKOIL AVANGARDE PROFESSIONAL LA 15W-40

Mid-SAPS engine oil for diesel engines of commercial vehicles

### Specifications

- ACEA E9
- API CK-4
- MB 228.31
- VOLVO VDS-4.5
- Caterpillar ECF-3
- Deutz DQC III-18 LA
- Cummins CES 20086
- Detroit Diesel DFS 93K222
- MTU Oil Category 2.1
- Renault VI RLD-3
- Mack EOS-4.5
- MAN M 3775

### Product description

Universal semi-synthetic heavy-duty diesel engine oil specially formulated to meet ACEA E9, API CK-4 and the world leading manufacturer's specifications. The product have been formulated using highly refined hydrosynthetic base stocks and advanced additive package.

### Application

It is recommended for current low emission diesel engines of trucks and buses (including vehicles with turbochargers) equipped with advanced exhaust aftertreatment devices such as diesel particulate filters (DPF), selective catalytic reductions (SCR) increased rates of exhaust gas recirculation (EGR). It is recommended in combination with Ultra Low Sulfur Diesel (ULSD).

### Benefits

#### ENGINE CLEANLINESS

Prevents the formation of high - and low temperature deposits due to the low content of sulfated ash

#### OXIDATION RESISTANCE

High antioxidant properties

#### MAXIMUM PROTECTION

Excellent protection against wear

#### COMPATIBILITY WITH AFTERTREATMENT SYSTEM

Low content of sulphated ash, phosphorus and sulphur ("Mid SAPS") reduces inorganic sludge in DPF and catalysts

The product name in an order: Motor oil LUKOIL AVANGARDE PROFESSIONAL LA SAE 15W-40, 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
Kinematic viscosity at 100 °C, mm <sup>2</sup> /s	ASTM D445	15.7
Viscosity index	ASTM D2270	147
Dynamic viscosity (CCS) at -20°C, mPa·s	ASTM D5293 / GOST R 52559	5,500
Total Base Number, mg KOH/1 g oil	ASTM D2896	9.1
Flash Point, COC, °C	ASTM D92	238
Sulphated ash, %	ASTM D874	0.99
Noack evaporation loss, %	ASTM D5800 / DIN 51581-1	6.2
Pour Point, °C	GOST 20287 B	-35