

## LUKOIL AVANTGARDE PROFESSIONAL XLE 10W-40

High-quality multigrade "Low-SAPS" diesel engine oil

### Approvals

- MB-Approval 228.52/228.51
- PJSC «Avtodizel» (YMZ)
- MTU Oil Category 3.1

### Meets requirements

- ACEA E4/E6/E7/E9
- VOLVO VDS-4.5
- Deutz DQC IV-10 LA
- Caterpillar ECF-3
- Mack EOS-4.5
- IVECO NG2
- DAF
- API CK-4/CJ-4
- MAN M 3477/3271-1/3575
- JASO DH-2
- Cummins CES 20081
- Renault VI RLD-4
- Scania LA

### Product description

High performance engine oil for use in high-speed heavy duty diesel engines, including diesel engines with DPF (Diesel Particulate Filter). Thanks to well-balanced technology (high quality base oils and premium additive package) which combines high TBN and low sulphated ash level, it outperforms ACEA E6 requirements (as well as E4, E7 and E9).

### Application

It is designed for use in modern diesel engines of MAN and Mercedes equipped with turbocharges, EGR (Exhaust Gas Recirculation), SCR (Selective Catalytic Reduction) systems and required Euro 5 and Euro 6 environmental standards. Provides extended drain capabilities and can be used in engines fueled by ULSD (Ultra Low Sulphur Diesel).

### Benefits

#### ADVANCED FUEL ECONOMY

Excellent fuel economy due to optimal viscometric characteristics

#### SUPERIOR WEAR PROTECTION

Excellent protection against wear at extreme conditions

#### LONG SERVICE LIFE

Prevents deposit formation and provides extended drain interval due to high total base number

#### ENGINE CLEANLINESS

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

### 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   | 854.0 |
| Kinematic viscosity at 100 °C, mm <sup>2</sup> /s | ASTM D445                 | 14.6  |
| Viscosity index                                   | ASTM D2270                | 176   |
| Total Base Number, mg KOH/1 g oil                 | ASTM D2896                | 13.6  |
| Sulphated ash, %                                  | ASTM D874                 | 0.98  |
| Pour Point, °C                                    | GOST 20287 B              | -42   |
| Noack evaporation loss, %                         | ASTM D5800 / DIN 51581-1  | 10.3  |
| Dynamic viscosity (CCS) at -25°C, mPa·s           | ASTM D5293 / GOST R 52559 | 5,100 |