

Description

THPD (Top High Performance Diesel) synthetic lubricant oil designed to meet the most demanding requirements for next generation EURO III, EURO IV and EURO V diesel engines. Product specifically designed for the most modern vehicles requiring ACEA E7, API CI-4 lubricants. Its carefully prepared formula enables a longer oil change period.

Properties

- Can be used when biodiesel is used as a fuel, following the recommended change periods established by the manufacturers.
- Multigrade oil encompassing a wide range of temperatures; very stable and excellent shearing resistance, it maintains its design viscosity during the whole life of the oil.
- Great detergent dispersant power, ensuring total cleanliness of the engine elements. Exceptional soot dispersion capacity, which means it is specially recommended for engines fitted with EGR-type emission reduction systems.
- It prevents casing polishing of cylinders, which is so typical of large horsepower supercharged engines.
- Prevents the formation of lacquers and varnishes thanks to its dispersant additives.
- Its alkaline reserve (TBN) enables it to protect the engine against corrosion by neutralising the acids formed in the combustion of diesel with different sulphur contents.
- According to service conditions and the type of EURO III, EURO IV and EURO V engine, this product may prolong the oil change period, though the engine manufacturer's recommendations must always be followed.

Quality levels, approvals and recommendations

- ACEA E7
- MAN 3275*
- MACK EO-N*
- API CI-4/SL*
- CUMMINS CES 20077/20076*
- CATERPILLAR ECF-2
- MB-Approval 228.3*
- VOLVO VDS-3*
- DETROIT DIESEL DDC 93K215
- MTU Type 2
- DEUTZ DQC III-10*
- RENAULT RLD-2/RLD*

*Formal approval

Technical specifications

| | UNIT | METHOD | VALUE |
|--|----------|---------------|--------|
| SAE Grade | | | 10W-40 |
| Density at 15 °C | g/mL | ASTM D 4052 | 0.873 |
| Viscosity at 100 °C | cSt | ASTM D 445 | 14.6 |
| Viscosity at 40 °C | cSt | ASTM D 445 | 90 |
| Viscosity at -25 °C | cP | ASTM D 5293 | <7000 |
| Viscosity index | - | ASTM D 2270 | 150 |
| Flash point, open cup | °C | ASTM D 92 | 225 |
| Pour point | °C | ASTM D 97 | -30 |
| T. B. N. | mg KOH/g | ASTM D 2896 | 10 |
| Sulphated ashes | % weight | ASTM D 874 | 1.3 |
| Bosch Injector: Viscosity at 100 °C after 90 cycle shear | cSt | CEC L-14-A-93 | >12.5 |

The above mentioned characteristics are typical values and should not be considered product specifications.