



Description

Top High Performance Diesel (THPD) lubricant oil designed to meet the requirements of the most demanding latest generation diesel engines. It exceeds traditional SHPD performance levels. A product specifically designed for the most modern vehicles that require ACEA E7, API CI-4 lubricants, it is especially suitable for those that must comply with EURO III, EURO IV or EURO V standards and equipped with EGR and SCR catalyst according to manufacturer's specifications.

Properties

- Can be used when biodiesel is used as a fuel, following the recommended change periods established by the manufacturers.
- Multi-grade oil suitable for all weather conditions. Excellent pumping on ignition.
- High dispersing detergent power that assures total cleaning of engine elements. Exceptional soot dispersion capacity, which makes it especially recommended for engines that incorporate EGR type emission reduction systems.
- Its selected components endow it with enhanced shearing resistance, maintaining its design viscosity during the life of the oil.
- Oil designed to comply with contaminating emission reduction standard EURO V and previous (according to manufacturer's recommendations), which also increases performance compared to traditional heavy diesel oils.
- Depending on service conditions and EURO III engine type, this product can prolong the oil change period, provided the recommendations of the engine manufacturer are followed.
- Its modern formulation endows this oil with magnificent antiwear properties; it is specially designed to protect the compressor turbo.

Quality levels, approvals and recommendations

- ACEA E5, E7
 - API CI-4, CH-4/SL*
 - API GL-4
 - CATERPILLAR CAT ECF-2/ECF-1-a
 - CUMMINS CES 20076/20077/20078
 - DEUTZ DQC III-18*
 - DTNA DFS 93K215*
 - Global DHD-1
 - MACK EO-N*
 - MAN M 3275-1
 - MB 228.3*
 - MTU Type 2*
 - RENAULT VI RLD/RLD-2*
 - VOLVO VDS-3*
- *Formal approval



Technical specifications

| | UNIT | METHOD | VALUE |
|--|-------------------|-------------|--------|
| SAE Grade | | | 15W-40 |
| Density at 15 °C | g/cm ³ | ASTM D4052 | 0.874 |
| Kinematic viscosity at 40 °C | cSt | ASTM D445 | 103.9 |
| Kinematic viscosity at 100 °C | cSt | ASTM D445 | 14.3 |
| CCS Viscosity at -20 °C | cP | ASTM D5293 | <7,000 |
| HTHS, viscosity at 150 °C | cP | ASTM D5481 | >3.7 |
| Viscosity index | - | ASTM D2270 | 141 |
| Flash point, open cup | °C | ASTM D92 | 236 |
| Pour point | °C | ASTM D97 | <-27 |
| Noack volatility, 1h at 250 °C | % in weight | CEC L-40-93 | <13 |
| Shearing Inj.Bosch: Vis 100 °C (90 cy) | cSt | CEC L-14-93 | >12.5 |
| TBN | mg KOH/g | ASTM D2896 | 10.5 |

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