

# DIESEL TURBO THPD 10W40

AUTOMOTIVE

Lubricants



## Description

THPD (Top High Performance Diesel) synthetic lubricant oil designed to meet the most demanding requirements for next generation EURO 3, EURO 4 and EURO 5 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 3, EURO 4 and EURO 5 engine, this product may prolong the oil change period, though the engine manufacturer's recommendations must always be followed.

## Quality Levels

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

A safety information file is available on request.

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Technical data sheet for Lubricants. Revision 6. October 2011.

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## Technical specifications

|  | UNIT        | METHOD        | VALUE     |
|--|-------------|---------------|-----------|
| SAE GRADE  |             |               | 10W40     |
| 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 max. |
| 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  | % in weight | ASTM D 874    | 1.3       |
| Bosch Injector: Viscosity at 100 °C after 90 cycle shear | cSt         | CEC L-14-A-93 | 12.5 min. |

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