



Description

Latest technology THPD (Top High Performance Diesel) lubricant oil designed to comply with the most demanding requirements of EURO VI and North American latest generation diesel engines (EPA 2007). Its low ash content (MID SAPS) ensures perfect performance in the post-treatment of exhaust gases incorporated in the most modern vehicles. Specially recommended for engines that require API CK-4 quality level and that use a low sulphur content fuel.

Properties

- It can be used when biodiesel is used as a fuel, following the recommended drain intervals established by the manufacturers.
- Multigrade oil that resists extremely high temperatures and minimises contaminant emissions because of its compatibility with exhaust gas post-treatment systems.
- It exceeds the demands of modern Euro VI engines (Volvo, Mercedes Benz, Renault) and EPA 2007 (Cummins, Detroit Diesel, Mack, MTU), covering the needs of any mixed fleet.
- Its carefully studied formula reduces oil consumption, deposit levels on pistons and offers better control of viscosity and oxidation stability.
- It can be used in earlier engines according to manufacturers' specifications, and it also increases performance in comparison to traditional, heavy diesel oils.
- Depending on service conditions and EURO VI engine type, this product can prolong the oil drain interval period, provided the recommendations of the engine manufacturer are followed.
- Results tested on different engines with major reduction in wear and improved dispersion of soot and other contaminants.

Quality levels, approvals and recommendations

- ACEA E7, E9, E11
 - API CK-4, CJ-4, CI-4 PLUS, CI-4/SN*
 - CATERPILLAR CAT ECF-3
 - CUMMINS CES 20086
 - DAIMLER TRUCK DTFR 15C100*
 - DEUTZ DQC III-10 LA*
 - DTNA DFS 93K222*
 - FORD WSS-M2C171-F1
 - MACK EOS-4.5*
 - MAN M 3775*
 - MB 228.31*
 - MTU Type 2.1*
 - RENAULT RLD-3*
 - VOLVO VDS-4.5*
- *Formal approval



Technical specifications

	UNIT	METHOD	VALUE
SAE Grade			15W-40
Density at 15 °C	g/cm ³	ASTM D4052	0.877
Kinematic viscosity at 40 °C	cSt	ASTM D445	113.5
Kinematic viscosity at 100 °C	cSt	ASTM D445	15.0
CCS Viscosity at -20 °C	cP	ASTM D5293	<7,000
Viscosity index	-	ASTM D2270	136
Flash point, open cup	°C	ASTM D92	>200
Pour point	°C	ASTM D97	<-27
Shearing Inj.Bosch: Vis 100 °C (30 cy)	cSt	CEC L-14-93	>12.5
Sulphated ashes	% in weight	ASTM D874	0.9
TBN	mg KOH/g	ASTM D2896	9.8

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