



Description

Very high performance and high quality SHPD (Super High Performance Diesel) lubricant oil. Recommended for all kinds of diesel engines, especially for the supercharged engines of long-haul commercial vehicles (TIR). It meets the requirements of both engine manufacturers and international classifications and specifications for long drainage period lubricants.

Properties

- Can be used when biodiesel is used as fuel, following the recommended change periods laid down by the manufacturers.
- It prevents cylinder casing polishing, which is very typical in supercharged high horsepower engines.
- Very stable multigrade oil with high shearing resistance.
- Especially suitable for vehicles that must comply with EURO I and EURO II standards regarding the reduction in the emission of contaminating gases and particles.
- It contains efficient corrosion, oxidation, rust and foam formation inhibitors.
- It prevents the formation of sludge when cold, obstructions in oil conduits and silting of the filter of the latter.
- It maintains an adequate pressure in all working conditions.
- Its ability to disperse sludge and other oxidation products prevents the formation of varnishes; it keeps the pistons clean and prevents segments from adhering.
- High fluidity in cold conditions, thus facilitating ignition and fuel saving, in addition to increasing protection against wear.
- Its modern detergency/dispersancy components enable the use of fuels with high and low sulphur content and neutralise the acids formed in the combustion of diesel while keeping the carbonaceous particles in suspension.
- Also applicable in public works, mining, agriculture and cogeneration when a low consumption lubricant is required.

Quality levels, approvals and recommendations

- ACEA E5
 - API CH-4, CG-4, CF-4/SJ
 - CUMMINS CES 20076
 - DAIMLER TRUCK DAIMLER TRUCK: DTFR 15B110*
 - DEUTZ DQC III-18*
 - MACK EO-N*
 - MAN M 3275-1
 - MB 228.3
 - MTU Type 2
 - RENAULT VI RLD-2*
 - VOLVO VDS-3*
- *Formal approval



Technical specifications

	UNIT	METHOD	VALUE
SAE Grade			15W-40
Density at 15 °C	g/cm3	ASTM D4052	0.874
Kinematic viscosity at 40 °C	cSt	ASTM D445	107
Kinematic viscosity at 100 °C	cSt	ASTM D445	14.5
CCS Viscosity at -20 °C	cP	ASTM D5293	<7,000
Viscosity index	-	ASTM D2270	>125
Flash point, open cup	°C	ASTM D92	>215
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	10.0

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