



## DESCRIPTION

Universal lubricant formulated with synthetic technology for application in heavy diesel engines. Its low ash, phosphorus and sulfur content (Mid SAPS) makes it optimal for minimizing clogging of particulate filters (DPF/FAP) and avoiding degradation of exhaust after-treatment systems. It is specially designed to meet the requirements of the Euro V and VI engines, and also be suitable for use in earlier engines.

## PRODUCT APPLICATIONS

- It is ideal for use in trucks, buses, light commercial vehicles, and vans, offering an ideal lubrication solution for fleets of mixed vehicles.
- Recommended for engines that require an API CK-4 and ACEA E11, E9 oil profile and use low-sulphur fuel.
- Recommended for agricultural and construction vehicles that require an oil with these characteristics.
- It can be used in both gas (CNG) and biodiesel engines (always following the drain interval indicated in the vehicle manual).

## PRODUCT PERFORMANCE

- Compatible with engines equipped with exhaust after-treatment systems, such as particulate filters (DPF), continuous regeneration traps (CRT) and EcoBlue® selective catalytic reduction by injection (SCR) systems that require low ash oils, optimizing their useful life and saving on maintenance.
- Excellent resistance to oxidation, extending the useful life of the oil\*.
- Protects the engine from acids formed during combustion, protecting it from corrosion.
- The high level of protection and deposit removal provided by this oil allows the engine to be kept in perfect working order, extending its life and allowing it to always work in optimum conditions.

## SPECIFICATIONS

- ACEA E11, E9, E7
- DTFR 15C100 (MB-Approval 228.31)
- CAT ECF-3
- Ford WSS M2C171-F1

- API CK-4
- Detroit Diesel DDC93K222
- CUMMINS CES20086
- JASO DH-2

- VOLVO VDS-4.5
- MACK EOS 4.5
- MAN M 3775/3575
- RENAULT RLD-3
- MTU Type 2.1
- Deutz DQC III-18 LA

\*Always follow the instructions of the engine manufacturers



## TYPICAL CHARACTERISTICS

CHARACTERISTIC	UNITS	METHOD	TRACTION ADVANCED LS 15W40
<b>SAE Grade</b>	-	-	<b>15W-40</b>
Density at 15°C	g/ml	ASTM D 4052	0.874
Viscosity at 100°C	cSt	ASTM D 445	15.3
Viscosity at 40°C	cSt	ASTM D 445	114
Viscosity Index	-	ASTM D 2270	140
CCS Viscosity at -20°C	cP	ASTM D 5293	5060
Pour Point	°C	ASTM D 5950	-39
Flash Point, COC	°C	ASTM D 92	234
Base number, TBN	mg KOH/g	ASTM D 2896	10.1
Sulfated ash	% (m/m)	ASTM D 874	<1.0

## HEALTH & SAFETY AND ENVIRONMENT

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product as per applicable legislation.

The typical values of the characteristics appearing in the table are average values given for guidance purposes only and do not constitute a guarantee. These values may be modified without any prior warning.