

# TRACTION ADVANCED LE 10W40



## DESCRIPTION

Lubricant formulated with very high-performance synthetic technology for heavy-duty diesel engines and light commercial vehicles. Specially designed for Euro VI, V and earlier engines equipped with gas post-treatment systems, due to low ash, phosphorus and sulfur (Low SAPS) content, as well as urban buses operating on CNG.

## PRODUCT APPLICATIONS

- In mixed fleets of buses and long-haul trucks, with multi-brand Euro V and Euro VI engines. It is also suitable for previous engines and for gas engines running on CNG gas.
- Designed for vehicles 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.
- Product focused on lubrication for engines of European manufacturers.

## PRODUCT PERFORMANCE

- It provides an excellent level of cleanliness that ensures longer engine life and prevents breakdowns caused by the formation of deposits and sludge.
- Its high viscosity index allows easy starting at low temperatures and a sufficient oil film in hot climates, protecting the engine from excessive wear at most crucial times it is used.
- It contributes to fuel economy and allows long oil drain intervals.
- It can be used in biodiesel engines (always following the drain interval indicated in the vehicle manual).

## SPECIFICATIONS

- |                            |                                    |                                    |                      |
|----------------------------|------------------------------------|------------------------------------|----------------------|
| • ACEA E8, E11, E6, E9, E7 | • DTFR 15C120 (MB-Approval 228.52) | • DTFR 15C110 (MB-Approval 228.51) | • MTU Type 3.1       |
| • API CK-4                 | • Volvo VDS-4.5                    | • Detroit Diesel DDC93K222         | • Deutz DQC IV-18 LA |
| • MAN M 3775/3477/3271-1   | • Renault RLD-3                    | • Cummins CES 20086                | • CAT ECF-3          |
| • JASO DH-2                | • Scania Low Ash                   | • Iveco 18-1804 TLS E9             | • DAF PSQL 2.1E-LD   |
| • Mack EOS-4.5             |                                    |                                    |                      |



## TYPICAL CHARACTERISTICS

CHARACTERISTIC	UNITS	METHOD	TRACTION ADVANCED LE 10W40
SAE Grade	-	-	<b>10W-40</b>
Density at 15°C	g/ml	ASTM D 4052	<b>0.869</b>
Viscosity at 100°C	cSt	ASTM D 445	<b>14.9</b>
Viscosity at 40°C	cSt	ASTM D 445	<b>105</b>
Viscosity Index	-	ASTM D 2270	<b>148</b>
CCS Viscosity at -25° C	cP	ASTM D 5293	<b>6660</b>
Pour Point	°C	ASTM D 5950	<b>-45</b>
Flash Point, COC	°C	ASTM D 92	<b>222</b>
Base number, TBN	mg KOH/g	ASTM D 2896	<b>10.3</b>
Sulfated ash	% (m/m)	ASTM D 874	<b>0.85</b>

## 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.