

Automotive lubricants. Heavy engine vehicle.

## Traction Full 15W-40 E7



### Key information

- Lubricant formulated with premium and hydrotreated bases.
- American and European Euro V engines and earlier, with SCR/EGR systems.
- Not compatible with diesel particulate filter (DPF).

### › Quality standards

- ACEA E7
- API CI-4, SL – backwards compatible with CH-4, SJ and previous
- JASO DH-1
- Global DHD-1



### › Manufacturer specifications

- |                          |                             |                         |
|--------------------------|-----------------------------|-------------------------|
| • MAN M 3275-1           | • MACK EO-N                 | • Deutz DQC III-18      |
| • DTFR 15B110 (MB 228.3) | • Detroit Diesel DFS 93K215 | • Caterpillar ECF-2/1-A |
| • Volvo VDS-3            | • Cummins CES 20078/77/76   |                         |
| • Renault RLD-2          | • MTU Type 2                |                         |

### › Use

- High-performance oil specifically designed for supercharged diesel engines in heavy vehicles intended for long-distance, urban transportation, and public works when a low-consumption lubricant with "superior" quality are required.
- It has been tested to guarantee its compatibility with high-carbon fuels, avoiding degradation sustained by previous technologies.
- Suitable for use with diesel fuels with up to 0.5% sulfur content.
- Suitable for use in engines that are equipped with exhaust gas after-treatment systems, such as selective catalytic reduction with AdBlue (SCR) and exhaust gas recirculation (EGR).
- Not compatible with Euro VI and/or earlier vehicles equipped with Diesel Particulate Filter (DPF).
- It is recommended to follow the indications of the vehicle manual regarding viscosity and oil specifications, as well as its drain interval according to the amount of sulfur of the fuel used.

### › Benefits

- Provides a level of protection and engine and turbocharger cleanliness superior to other SHPD or THPD oils on the market.
- It uses high quality and resistant detergents, which keeps the engine clean of soot deposits, and helps to remove varnishes, guaranteeing maximum protection against the formation of acids from fuel combustion.

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.

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- The exceptional balance of lubricant bases used in combination with state-of-the-art polymers reduces the loss of oil viscosity by shear, thus avoiding wear due to breakage of the protective film of the lubricant between moving parts, guaranteeing perfect lubrication even in situations of high load and low speed.

## › Physical and chemical properties

Characteristic	Units	Method	Traction full 15W-40 E7
<b>SAE Grade</b>	-	-	<b>15W-40</b>
Density at 15°C	kg/l	ASTM D 4052	0.886
Viscosity at 100°C	cSt	ASTM D 445	14.2
Viscosity at 40°C	cSt	ASTM D 445	103
Viscosity Index	-	ASTM D 2270	138
CCS Viscosity at -20°C	cP	ASTM D 5293	5218
HTHS Viscosity at 150°C	cP	ASTM D 4683	4.2
Pour Point	°C	ASTM D 5950	-39
Flash Point	°C	ASTM D 92	224
Base number, TBN	mg KOH/g	ASTM D 2896	12.2
Sulfated ash	% (m/m)	ASTM D 874	1.50

## › 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.