

LUBRICANTS FOR AUTOMOTION. HEAVY DIESEL

## TRACTION MAX 10W40

### DESCRIPTION

Lubricant formulated with synthetic bases of maximum performance, GLOBAL character, which meets the requirements of ACEA E7 and API CI-4 specifications. Specially recommended for all heavy vehicles (both European and American) with the latest technology and low emissions, complying with EURO V and earlier standards that do not equip DPF.

### PRODUCT APPLICATIONS

- Specially indicated for mixed fleets with vehicles of various makes and ages, allowing, thanks to its GLOBAL character, savings in logistics and maintenance costs.
- Meets the specifications of major European builders, improving the performance of mineral oils, so it can be used in any type of fleet, even in those with Public Works machinery that require a type API CI-4 oil.
- Especially indicated for vehicles meeting the latest Euro V and Euro IV emission standards using SCR systems with EcoBlue® or EGR and EPA 2007.

### PRODUCT PERFORMANCE

- Thanks to its excellent performance and stability over a wide temperature range, it provides greater protection of all engine parts both at the time of start-up, which is critical for wear, and during engine operation, increasing the service life of the engine.
- Its high detergent/dispersant additivation avoids the formation of deposits, sludge and concentrations of particles, which are very detrimental for the operation of the oil pump and the correct lubrication of the engine.
- The results obtained in the formation of sludge and wear in Daimler's modern OM 646 LA engine test, which introduces the use of Biodiesel (B5) in the tests, ensure excellent performance even in the presence of biodiesel.

### SPECIFICATIONS

- ACEA E7
- VOLVO VDS-3
- Detroit Diesel DDC93K215
- JASO DH-1
- API CI-4
- MACK EO-N
- MTU Type 2
- GLOBAL DHD-1
- DTFR 15B110 (MB-Approval 228.3)
- Renault RLD-2
- Deutz DQC III 18
- MAN M 3275-1
- Cummins CES 20078
- CAT ECF-2



### TYPICAL CHARACTERISTICS

| CHARACTERISTIC         | UNITS    | METHOD      | TRACTION MAX 10W40 |
|------------------------|----------|-------------|--------------------|
| SAE Grade              | -        | -           | <b>10W-40</b>      |
| Density at 15°C        | g/ml     | ASTM D 4052 | 0,866              |
| Viscosity at 100°C     | cSt      | ASTM D 445  | 13,9               |
| Viscosity at 40° C     | cSt      | ASTM D 445  | 97                 |
| Viscosity index        | -        | ASTM D 2270 | 154                |
| CCS viscosity at -25°C | cP       | ASTM D 5293 | 6350               |
| Freezing point         | °C       | ASTM D 5950 | -42                |
| Flash point, V/A       | °C       | ASTM D 92   | 234                |
| Base number, TBN       | mg KOH/g | ASTM D 2896 | 11.2               |
| Sulphated ash          | % (m/m)  | ASTM D 874  | 1.5                |

### HEALTH & SAFETY AND ENVIRONMENT

A 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.