

## Truck Long-life Motor Oil SAE 10W-40

### Description

Premium class heavy-duty motor oil, developed specifically to meet the high demands of heavy duty diesel engines. The innovative additive technology guarantees best wear protection and engine cleanliness, lowest oil consumption and highest engine efficiency. Ideal for engines with turbochargers without diesel particulate filters (DPF). Use with extended oil change intervals as per manufacturer.

### Properties

- prevents "bore polishing"
- keeps the charge air cooler extremely clean
- low residue formation
- miscible with all commercially available motor oils
- outstanding oil film strength
- excellent resistance to aging
- outstanding detergent and dispersant properties
- high wear resistance
- wide operating temperature range
- outstanding shear resistance
- universal application
- excellent cold-start behavior

### Specifications / Approvals

ACEA E4 • ACEA E7 • API CI-4 • Deutz DQC III-18 • Mack EO-N • MAN M 3277 • MAN M 3377 • MB-Approval 228.5 • Renault Trucks RLD-2 • Renault Trucks RXD • Volvo VDS-3

**LIQUI MOLY also recommends this product for vehicles or assemblies for which the following specifications or original part numbers are required**

Caterpillar ECF-1-a • Cummins CES 20077 • Cummins CES 20078 • DAF HP2 • Mack EO-M Plus • MTU Typ 3 • Scania LDF-2

### Technical data

|                           |   |
|---------------------------|---|
| SAE class (engine oils)   | 10W-40<br>SAE J300                        |
| Density at 59 °F          | 0,865 g/cm <sup>3</sup><br>DIN 51757      |
| Viscosity at 104 °F       | 97,0 mm <sup>2</sup> /s<br>ASTM D 7042-04 |
| Viscosity at 212°F        | 14,7 mm <sup>2</sup> /s<br>ASTM D 7042-04 |
| Viscosity at -22 °F (MRV) | <= 60000 mPas<br>ASTM D4684               |
| Viscosity at -13 °F (CCS) | <= 7000 mPas<br>ASTM D5293                |
| Viscosity index           | 160<br>DIN ISO 2909                       |



### Technical data

|                                       |                               |
|---------------------------------------|-------------------------------|
| High temperature/high shear viscosity | >= 3,5 mPas<br>ASTM D5481     |
| Pour point                            | -32 °F<br>DIN ISO 3016        |
| Evaporation loss (Noack)              | 10,0 %<br>CEC-L-40-A-93       |
| Flash point                           | 446 °F<br>DIN ISO 2592        |
| Total base number                     | 13,0 mg KOH/g<br>DIN ISO 3771 |
| Sulfate ash                           | <= 2,0 g/100g<br>DIN 51575    |
| Color number (ASTM)                   | 4<br>DIN ISO 2049             |

### Areas of application

For diesel engines where a motor oil according to current specifications is required or recommended. Tested safe with catalytic converters and turbochargers.

### Application

Observe the manufacturers instructions!

### Available pack sizes

1.000 l Container 22177  
USA-AND-CANADA-EN-F

**Our information is based on thorough research and may be considered reliable, although not legally binding.**