PRODUCT DATA SHEET

# Q8 Formula Truck 8500 10W-40

*Synthetic UHPD engine oil ACEA E6/E7/E9*

## Description

*Q8 Formula Truck 8500 10W-40 is a superior ultra high performance low SAPS heavy-duty engine oil. This product is bio-fuel compatible and has excellent cold starting properties. It offers extended oil drains, provides exceptional protection against wear and prevents oxidation. It meets requirements of OEM's such as Mercedes-Benz, MAN, Scania and Volvo.*

## Applications

*Q8 Formula Truck 8500 10W-40 is developed for heavy-duty vehicles requiring the ACEA E6 / E7 / E9 and API CK-4 specifications. It can be used in most Euro IV, Euro V and Euro VI diesel engines equipped with after treatment systems and operating on low sulphur diesel. It exceeds the requirements of more than 90% of the heavy-duty fleet such as Scania, MAN, Mercedes-Benz, Cummins, Volvo, MTU or Caterpillar. Q8 Formula Truck 8500 10W-40 may be used where Volvo VDS-5 is prescribed though change interval must be adjusted accordingly and no VDS-5 fuel economy benefits are available. Please note Q8 Formula Truck 8500 10W-40 is not VDS-5 approved*

## Benefits

- *Excellent combustion chamber cleanliness due to low sulphated ash level.*
- *Excellent engine protection after cold start.*
- *Superb catalytic after treatment system (SCR) protection.*
- *Fuel economy improvement up to 1%.*
- *Outstanding bio-fuel compatibility.*

## Specifications, recommendations and approvals

| | | | |
|---|---|---|---|
| **ACEA** | E11 | **Liebherr** | LH-00-ENG3A LA |
| **ACEA** | E6 | **MAN** | M 3271-1 |
| **ACEA** | E7 | **MAN** | M 3477 |
| **ACEA** | E8 | **MAN** | M 3775 |
| **ACEA** | E9 | **MB** | 226.9 |
| **API** | CK-4 | **MB** | 228.31 |
| **API** | SN | **MB** | 228.51 |
| **Caterpillar** | ECF-2 | **MB** | 235.28 |
| **Caterpillar** | ECF-3 | **MTU** | Type 2.1 |
| **Cummins** | CES 20081 | **MTU** | Type 3.1 |
| **Cummins** | CES 20086 | **Mack** | EO-O Premium Plus |
| **DAF** | Extended Drain | **Mack** | EO-S 4.5 |
| **Detroit Diesel** | DFS 93K218 | **Renault** | RGD |
| **Deutz** | DQC IV-10 LA | **Renault** | RLD-3 |
| **Deutz** | DQC IV-18 LA | **Scania** | LA (Low Ash) |
| **Iveco** | 18-1804 TLS E6 | **Volvo** | CNG |
| **Iveco** | 18-1804 TLS E9 | **Volvo** | VDS-4 |
| **JASO** | DH-2 | **Volvo** | VDS-4.5 |
| **Liebherr** | LH-00-ENG LA | | |

*Color code blue = officially approved*

** Pending approval*

## Properties

| | Method | Unit | Typical |
|---|---|---|---|
| Density, 20 ˚C | D 4052 | g/ml | 0.868 |
| Density, 15 ˚C | D 4052 | g/ml | 0,871 |
| Viscosity Grade | - | - | SAE 10W-40 |
| Kinematic Viscosity, 40 ˚C | D 445 | $mm^2/s$ | 102.7 |
| Kinematic Viscosity, 100 ˚C | D 445 | $mm^2/s$ | 14.8 |
| Viscosity Index | D 2270 | - | 150 |
| Total Base Number | D 2896 | mg KOH/g | 10 |
| Pour Point | D 97 | ˚C | -42 |
| Flash Point, COC | D 92 | ˚C | 238 |
| Sulfated Ash | D 874 | % mass | 1.0 |

The figures above are not a specification. They are typical figures obtained within production tolerances.

## Remarks

Product Data Sheet includes a selection of specifications, for full overview please consult the Q8Oils website.