



# Product Information

A PRODUCT OF ASHLAND CONSUMER MARKETS, A COMMERCIAL UNIT OF ASHLAND INC.

*Lubricants - Engine Oil - Heavy Duty Engine Oils*

Version: 110/13b

## ProFleet™ LS Engine Oil SAE 10W-40

***Premium Ultra High Performance Diesel (UHPD) full synthetic motor oil engineered to meet the latest EU standards and protect the latest after treatment systems.***

ProFleet LS Motor Oil SAE 10W-40 is a premium full synthetic motor oil engineered to meet the needs of the so-called Euro standards of the European Union. It fulfills the Ultra High Performance Diesel (UHPD) recommendations of major engine manufacturers. The unique formulation offers a lower Sulphated Ash, Phosphorus, and Sulphur content in order to protect the latest after treatment systems, such as Exhaust Gas Recirculation systems (EGR), Selective Catalytic Reduction (SCR) systems and Diesel Particle Filters (DPF) after treatment systems. The oil is capable of providing long drain service intervals for trucks driving long distances. Suitable for Euro 1,2,3,4,5,6\* engines.

*\*Euro 6 oil recommendations differ per truck brand. Check owner's manual before use.*

### Approvals/Performance Levels

<b>SAE 10W-40</b>
API CI-4
ACEA E6, E7, E9
Deutz DQC IV-10 LA
MACK EO-N
MAN M 3477, M 3271-1
MB-228.51
MTU type 3.1
Renault RXD, RLD / RLD-2, RGD
Volvo VDS-3, CNG
Scania Low Ash
Caterpillar ECF-1-a
JASO DH-2

### Applications

Suitable for heavy-duty diesel engines in trucks and buses as well as industrial vehicles.

Suitable for use in high performance Euro diesel engines with Exhaust Gas Recirculation (EGR), Selective Catalytic Reduction (SCR) systems and Diesel Particle Filters (DPF) after treatment systems.

Fulfills the Ultra High Performance Diesel (UHPD) recommendations of major engine builders

Suitable for trucks and buses with extra long-drain oil refreshment periods.

### Features and Benefits

#### **Wear protection**

Strong oil film protects the engine against wear and corrosion.

#### **Engine cleanliness**

Keeps the engine clean and in good condition over extended long drain periods. Unique formulation prevents deposit formation and protects against soot build-up

#### **OEM approved motor oil**

Recommended and approved by major engine manufacturers.

#### **Extended drains**

Extended service intervals and long-drain oil refreshment periods.

#### **After treatment system protection**

Suitable for EGR, SCR and DPF catalytic after treatment systems.

#### **Environment**

Better for the environment because of lower Sulphur, Phosphor and Sulphated Ash content.



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## Health and Safety

This product is not likely to present any significant health or safety hazards when used correctly in the right application. A Safety Data Sheet (SDS) is available on request via your local sales office or via the internet @ <http://msds.ashland.com>

## Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Typical Properties

Typical property characteristics are based on current production. Whilst future production will conform to Valvoline™ specifications, variations in these characteristics may occur.

SAE Viscosity Grade	10W-40
Viscosity, mm <sup>2</sup> /s @ 100 °C. ASTM D-445	13,8
Viscosity, mm <sup>2</sup> /s @ 40 °C. ASTM D-445	91
Viscosity Index ASTM D-2270	155
Viscosity, mPa.s -25°C. ASTM D-5293	<7000
TBN, mg KOH/g ASTM D-2896	10,0
Pour Point, °C ASTM D-5950	-39
Specific Gravity @ 15.6°C. ASTM D-4052	0,863
Flash Point, COC, °C. ASTM D-92	234

**This information only applies to products manufactured in the following location(s):  
Europe**

## Keeping the world moving since 1866™

Serving more than 100 countries around the globe, Valvoline is a leading marketer, distributor and producer of quality branded automotive and industrial products and services. Products include automotive lubricants including MaxLife™, the first motor oil specifically formulated for higher-mileage vehicles; transmission fluids; gear oils; hydraulic lubricants; automotive chemicals; specialty products; greases, and cooling system products.

For more information on Valvoline products, programs and services please visit [www.valvolineeurope.com](http://www.valvolineeurope.com)

## Author:

AdG

Replaces – 110/12

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