

# PRODUCT INFORMATION



## Lubricants - Engine Oil - Heavy Duty Engine Oils

Version: 150/04

### ProFleet™ LS-X Engine Oil SAE 10W-40

Premium Ultra High Performance Diesel (UHPD) semi-synthetic engine oil engineered to meet the latest EU standards and protect the latest after treatment systems.

ProFleet LS-X Engine Oil SAE 10W-40 fulfils the Ultra High Performance Diesel (UHPD) engine oil 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 Particulate Filters (DPF). The oil is capable of providing long drain service intervals for trucks and buses and is compatible with Euro 1,2,3,4,5,6\* engines.

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

O.E.M. Approvals	Performance levels
Mack EO-O Premium Plus	ACEA E6, E7, E9
MB-Approval 228.51	API: CI-4, CJ-4
Renault RLD-3, RLD-2	Caterpillar ECF-3, ECF-2
Scania Low Ash	Cummins CES 20081
Volvo VDS-4 (417-0001-19-1018)	DAF*
	DDC 93K218
	Deutz DQC IV-10 LA
	MAN M 3271-1/ M 3477
	MB-228.31
	MTU Type 3.1 & 2.1
	Volvo VDS-3, CNG

\* Check owner's manual before use

## Features & Benefits

### Wear protection

Extremely strong oil film protects the engine against pre-mature wear and corrosion.

### Extended oil drain intervals

Developed with the latest additive technologies to offer the potential of extended service intervals and long-drain oil refreshment periods.

### Engine cleanliness

State-of-art detergent and dispersant additives in combination with premium quality semi synthetic base oil will help to keep the engine clean and in good condition over extended oil drain periods. Its unique formulation prevents deposit formation and protects against soot build-up.

### Applications

Suitable for heavy-duty diesel engines in trucks and buses as well as industrial vehicles and capable of extra-long drain intervals. Suitable for use in high performance diesel engines with Exhaust Gas Recirculation (EGR), Selective Catalytic Reduction (SCR) systems and Diesel Particulate Filters (DPF).

# PRODUCT INFORMATION



## 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; 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) or <https://pisheets.valvoline.com/>

## Typical properties

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

ProFleet LS-X Engine Oil	
<b>SAE Viscosity Grade</b>	10W-40
<b>Viscosity, mm<sup>2</sup>/s @ 100 °C.</b> ASTM D-445	13,5
<b>Viscosity, mm<sup>2</sup>/s @ 40 °C.</b> ASTM D-445	90,3
<b>Viscosity Index</b> ASTM D-2270	151
<b>Viscosity, mPa.s -25°C.</b> ASTM D-5293	<6800
<b>TBN, mg KOH/g</b> ASTM D-2896	10
<b>Pour Point, °C</b> ASTM D-5949	-39
<b>Specific Gravity @ 15.6°C.</b> ASTM D-4052	0,864
<b>Flash Point, COC, °C.</b> ASTM D-92	222

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

™ Trademark of Valvoline, registered in various countries © 2021

All statements, information and data presented herein are believed to be accurate and reliable, but are not to be taken as a guarantee, an express warranty, or an implied warranty of merchantability or fitness for a particular purpose, or representation, express or implied, for which Ellis Enterprises B.V. and its affiliates assume legal responsibility.

## Health & Safety

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet <http://sds.valvoline.com>

## Protect the environment

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

## Storage

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

Replaces – 150/03