

## Lubricants - Engine Oil - Heavy Duty Engine Oils

Version: 158/01

# ProFleet™ LSA Engine Oil SAE 5W-30

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

ProFleet LSA Engine Oil SAE 5W-30 is a premium full synthetic engine oil engineered to meet the needs of the emission 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, Phosphorous, 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 low viscosity 5W-30 and the full synthetic formulation provides fuel economy benefits and extra long drain intervals. Suitable for 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
MB-Approval 228.51
Volvo VDS-4.5
Mack EOS-4.5
MAN M3677
Renault RLD-3
Scania low ash*

\*Pending

Performance levels
ACEA E6, E7, E9
API: CK-4, CJ-4, CI-4+, CI-4, CH-4/ SN
Cummins CES 20086
Caterpillar ECF-3, ECF-2
Detroit Diesel DQC 93K222
Deutz DQC IV-18 LA
Ford WSS-M2C213A
JASO DH-2, DH-1
MAN M3271, M3477, M3775
MTU type 3.1, type 2.1
MB-228.31
Volvo VDS-4, VDS-3

## Features & Benefits

### 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 Particulate Filters (DPF). Fulfills the Ultra High-Performance Diesel (UHPD) recommendations of major engine builders.

### Fuel Economy

Full synthetic low viscosity engine oil provides excellent fuel economy properties.

### Extended drains

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

### Environment

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

### Wear protection

Strong oil film protects the engine against wear and corrosion. This motor oil will flow even at very low temperatures, with that protecting the engine against wear at cold start-ups.

# 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)

## 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 LSA Engine Oil	
<b>SAE Viscosity Grade</b>	5W-30
<b>Viscosity, mm<sup>2</sup>/s @ 100 °C.</b> ASTM D-445	11,7
<b>Viscosity, mm<sup>2</sup>/s @ 40 °C.</b> ASTM D-445	70,5
<b>Viscosity Index</b> ASTM D-2270	161
<b>Viscosity, mPa.s -30°C.</b> ASTM D-5293	<6600
<b>TBN, mg KOH/g</b> ASTM D-2896	10,0
<b>Pour Point, °C</b> ASTM D-5949	-42
<b>Specific Gravity @ 15.6°C.</b> ASTM D-4052	0,857
<b>Flash Point, COC, °C.</b> ASTM D-92	234

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

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## 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.