

# Product Information

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



Lubricants - Engine Oil - Heavy Duty Engine Oils

Version: 110/13a

## ProFleet™ LS Engine Oil SAE 5W-30

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

ProFleet LS Engine Oil SAE 5W-30 is a premium full synthetic engine 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, 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) after treatment systems. The low viscosity 5W-30 and the full synthetic formulation provide fuel economy 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
MAN M 3677, M 3575, M 3477, M 3271-1
MB-Approval 228.51*
Volvo VDS-4, VDS-3, CNG
Mack EO-O Premium Plus
Renault RLD-3, RXD

\*MB-228.31 included

Performance Levels
ACEA E4-12, E6-12, E7-12, E9-12
API: CI-4, CJ-4
Cummins CES 20081
Deutz DQC IV-10 LA
DAF**
Iveco 18-1804 TLS E6
MTU Type 3.1, 2.1
Caterpillar ECF-3
Scania Low Ash

\*\* Check owner's manual before use

## Features and 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) 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.

### Fuel Economy

Full synthetic low viscosity engine oil, includes excellent fuel economy properties.

### 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.

### 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, 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.

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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.

ProFleet LS	
SAE Viscosity Grade	5W-30
Viscosity, mm <sup>2</sup> /s @ 100 °C. ASTM D-445	12,3
Viscosity, mm <sup>2</sup> /s @ 40 °C. ASTM D-445	73.7
Viscosity Index ASTM D-2270	166
Viscosity, mPa.s -30°C. ASTM D-5293	<6600
TBN, mg KOH/g ASTM D-2896	13
Pour Point, °C ASTM D-5950	-45
Specific Gravity @ 15.6°C. ASTM D-4052	0,861
Flash Point, COC, °C. ASTM D-92	214

## 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.valvolineurope.com](http://www.valvolineurope.com)

## Author:

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Europe**

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