

# Product Information

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



*Lubricants - Engine Oil - Heavy Duty Engine Oils*

Version: 115/02

## All-Fleet Extra LE engine oil SAE 15W-40

Valvoline All Fleet Extra LE engine oil is a Super High Performance Diesel (SHPD) engine oil for use in heavy-duty, turbo-charged industrial and truck engines. This oil is specially engineered to meet the medium extended drain requirements of the world's leading truck manufacturers and contains a special additive system providing effective piston cleanliness and wear control. The product can be used in Euro 1, 2, 3, 4, and 5 engines with or without Diesel Particle Filter (DPF) and for most engines with Exhaust Gas Recirculation (EGR) and Selective Catalytic Reduction (SCR) after treatment systems. Always consult OEM recommendations before use.

### Approvals/Performance levels

<b>SAE 15W-40</b>
ACEA E7-04, E9-08/2
API CF-4, CG-4, CH-4, CI-4, CJ-4
Cummins 20.081
Mercedes-Benz 228.31
Volvo VDS-4, VDS-3
MAN 3275
MTU Type 2.1
Mack EO-O premium plus
Caterpillar ECF-3
Renault RLD-3

### Applications

- Suitable for heavy-duty engines in trucks, buses and industrial vehicles.
- Suitable for engines with special after treatment exhaust systems such as EGR, SCR and DPF.
- Suitable for medium extended drain oil refreshment periods.

### Features and Benefits

#### **SHPD**

Super High Performance Diesel engine oil.

#### **Emission control**

Fulfills the requirements of EU Euro 5 emission standards.

#### **After treatment**

Mid SAP Oil suitable for SCR, EGR and DPF exhaust systems.

#### **Long-life**

Maximizes engine durability.

#### **Clean engine and wear protection**

Special additive system provides effective piston cleanliness and wear control.

#### **OEM approved**

Recommended and approved by many major heavy-duty engine manufacturers.

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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 Material and Safety Data Sheet (MSDS) 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.

<b>SAE Viscosity Grade</b>	15W-40
<b>Viscosity</b> , mm <sup>2</sup> /s @ 100 °C. ASTM D-445	14.8
<b>Viscosity</b> , mm <sup>2</sup> /s @ 40 °C. ASTM D-445	110
<b>Viscosity Index</b> ASTM D-2270	138
<b>Viscosity</b> , mPa.s -20°C. ASTM D-5293	<7000
<b>TBN</b> , mg KOH/g ASTM D-2896	8.5
<b>Pour Point</b> , °C ASTM D-5950	-36
<b>Specific Gravity</b> @ 15.6°C. ASTM D-4052	0.879
<b>Flash Point</b> , COC, °C. ASTM D-92	218

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

## People Who Know, Use Valvoline™

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)

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Replaces – 115/01

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