

*Lubricants - Engine Oil - Heavy Duty Engine Oils*

Version: 152/02

## All-Fleet™ Superior LE SAE 15W-40

All-Fleet™ Superior LE SAE 15W-40 engine oil is formulated to provide enhanced oxidation control and shear stability demanded in modern diesel engines operating under a wide variety of service conditions, including engines with Diesel Particulate Filters (DPF) and cooled Exhaust Gas Recirculation (EGR) and Selective Catalyst Reduction (SCR) .

All-Fleet™ Superior LE SAE 15W-40 engine oil is blended with premium base oils and high-quality additive chemistry to achieve the following benefits: high temperature piston deposit control, foam protection, soot dispersancy and oil-thickening control, oxidation inhibition, low temperature sludge protection, corrosion and rust inhibition, valve train wear protection and TBN retention. The product provides excellent performance in local stop and go routes, on-and off-road, farm, construction, and mining applications.

O.E.M. Approvals
MB-Approval 228.31
MTU Type 2.1
Renault RLD-4
Volvo VDS-4.5

Performance levels
ACEA: E7, E9
API: CK-4, CI-4, CI-4+, CH-4, CJ-4
Caterpillar ECF-3
CES 20086, CES 20081
Detroit Diesel DFS93 K222, K218
Ford WSS-M2C171-F1
Deutz DQC III-10 LA, II-10 LA
JASO DH-1, DH-2
Mack OE-N Premium Plus, OE-S-4.5
MAN 3575
MAT 3521, MAT 3522
Renault RLD-3
Volvo VDS-4, VDS-3

### Features & Benefits

#### Applications

Suitable for some of the latest heavy duty engines in trucks, buses and off-road machinery.

#### Emission control

Fulfills the requirements of EU Euro 6 and Stage V emission standards. This formulation is especially effective at sustaining emission control and system durability where particulate filters and other advanced aftertreatment systems are used.

#### Backwards compatibility

All-Fleet™ Superior LE SAE 15W-40 engine oil exceeds the performance criteria of API: CJ-4, CI-4, CI-4 Plus and CH-4 and can effectively lubricate engines calling these API service categories.

#### Clean engine and wear protection

The modern additive system provides effective piston cleanliness and wear protection as well as valvetrain wear control.

# 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.

All-Fleet Superior LE Engine Oil	
<b>SAE Viscosity Grade</b>	15W-40
<b>Viscosity, mm<sup>2</sup>/s @ 100 °C.</b> ASTM D-445	14,3
<b>Viscosity, mm<sup>2</sup>/s @ 40 °C.</b> ASTM D-445	107
<b>Viscosity Index</b> ASTM D-2270	137
<b>Viscosity, mPa.s -20°C.</b> ASTM D-5293	<6800
<b>TBN, mg KOH/g</b> ASTM D-2896	8,5
<b>Pour Point, °C</b> ASTM D-5949	-36
<b>Specific Gravity @ 15.6°C.</b> ASTM D-4052	0,876
<b>Flash Point, COC, °C.</b> ASTM D-92	238

**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.

Replaces – 152/01