

# PRODUCT INFORMATION



Lubricants - Engine Oil - Heavy Duty Engine Oils

Version: 112/09a

## All-Fleet™ Extreme Engine Oil SAE 10W-40

**All Fleet Extreme SAE 10W-40** is a Super High Performance Diesel (SHPD) engine oil for use in heavy-duty turbo-diesel engines of trucks, buses and industrial engines. The oil is engineered with synthetic technology to meet the long-life requirements of major engine manufacturers and gives protection over a long time period. All-Fleet Extreme SAE 10W-40 fulfils the API CI-4 specification, which means that the oil can be used in engines with Exhaust Gas Recirculation (EGR) systems. The ACEA E7 specification shows that the oil is suitable for modern heavy duty engines, fitted with Selective Catalytic Reduction (SCR) systems for NO<sub>x</sub> reduction. The oil is not intended for Diesel Particle Filter (DPF) after treatment systems. All-Fleet Extreme SAE 10W-40 is made with synthetic technology resulting in improved low temperature properties.

### O.E.M. Approvals

Cummins CES 20078

MAN M 3275-1

MB-Approval 228.3

Volvo VDS-3

Mack EO-N, EO-M Plus

Renault RLD/RLD-2

### Performance levels

ACEA E7, E5, E2

API: CI-4, CH-4, CG-4

Caterpillar ECF-2, ECF-1-a

Cummins CES 20076, 20077

Deutz DQC III-10

Global DHD-1

MTU Type 2

### Features & Benefits

#### Emission control

Recommend for trucks fulfilling the EU Euro emission requirements up to Euro 4 and 5 standards. \*  
(\*please consult owner's manual before use)

#### OEM approved

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

#### Clean engine

Superior performing additive system prevents soot and sludge formation, ring sticking and deposit buildup.

#### Oxidation control

Enhanced oxidation control at high temperatures and extended drain intervals.

#### Long life

Made with highly effective dispersant technology for superior wear protection and engine cleanliness, resulting in maximized engine durability.

#### Low temperature performance

Enhanced cold flow properties, meeting the stringent OEM and ACEA 2016 specifications.

#### Applications

Suitable for heavy-duty mixed fleets.

Suitable for EGR and SCR after treatment systems - **not** for DPF systems.

Suitable for extended oil drain intervals in heavy duty trucks, buses and off-road machinery.

Suitable for low temperatures.

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## 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.

<b>All-Fleet Extreme Engine Oil</b>	
<b>SAE Viscosity Grade</b>	10W-40
<b>Viscosity, mm<sup>2</sup>/s @ 100 °C.</b> ASTM D-445	14,8
<b>Viscosity, mm<sup>2</sup>/s @ 40 °C.</b> ASTM D-445	100
<b>Viscosity Index</b> ASTM D-2270	154
<b>Viscosity, mPa.s -25°C.</b> ASTM D-5293	<7000
<b>TBN, mg KOH/g</b> ASTM D-2896	10,4
<b>Pour Point, °C</b> ASTM D-5949	-42
<b>Specific Gravity @ 15.6°C.</b> ASTM D-4052	0,867
<b>Flash Point, COC, °C.</b> ASTM D-92	231

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

## 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 storing 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 – 112/09

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