

Product Information

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Lubricants - Engine Oil - Heavy Duty Engine Oils

Version: 112/04

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 and buses and industrial engines. The oil is engineered to meet long drain 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 the latest EURO 1, 2, 3, 4 engines with Selective Catalytic Reduction (SCR) systems for NO_x reduction. The oil is not intended for Diesel Particle Filter (DPF) after treatment systems. All-Fleet Extreme SAE 10W-40 is partly synthetic and therefore has better low temperature properties.

Approvals/Performance levels

SAE 10W-40
ACEA E3-96/4, E5-02, E7-08/2
API CG-4, CH-4, CI-4
MAN 3275
MB-approval 228.3
Volvo VDS-3
Renault RLD/RLD-2
Cummins 20.076/77/78
Mack EO-M (plus)
DHD-1
MTU Type 2
Caterpillar ECF-2, 1-a
Deutz DQC III-05

Applications

Suitable for heavy-duty engines in trucks and buses.

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

Suitable for extended oil drain intervals.

Suitable for low temperatures.

Features and Benefits

SHPD

Super High Performance Diesel (SHPD) engine oil.

Wear protection

Strong oil film protects the engine against wear and corrosion.

Engine cleanliness

Keeps the engine clean and in good condition, over a long drain period.

Break-down resistance

Thermal and Oxidation stable oil film.

Extended Service

Extended service intervals and long-drain oil refreshment periods.

Winter start-ups

Easy start-ups even under very cold conditions.

OEM approved

Recommended and approved by major 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.

SAE Viscosity Grade	10W-40
Viscosity , mm ² /s @ 100 °C. ASTM D-445	14.0
Viscosity , mm ² /s @ 40 °C. ASTM D-445	93.3
Viscosity Index ASTM D-2270	154
Viscosity , mPa.s -25°C. ASTM D-5293	<7000
TBN , mg KOH/g ASTM D-2896	10.8
Pour Point , °C ASTM D-5950	-42
Specific Gravity @ 15.6°C. ASTM D-4052	0.873
Flash Point , COC, °C. ASTM D-92	220

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

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For more information on Valvoline products, programs and services please visit www.valvolineurope.com

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Replaces – 112/03

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