

## Lubricants - Engine Oil - Heavy Duty Engine Oils

Version: 101/20a

### All-Fleet™ Extra Engine Oil SAE 15W-40

High quality conventional heavy duty engine oil. Formulated with modern additive technologies to provide maximum engine performance and protection.

All-Fleet Extra engine oil is suitable for heavy-duty diesel engines in trucks, buses and off-road machinery. Suitable for use in heavy duty diesel engines with Exhaust Gas Recirculation (EGR) and Selective Catalytic Reduction (SCR) systems. Not recommended for Diesel Particle Filters (DPF). Fulfills the Super High Performance Diesel (SHPD) recommendations of major engine builders.

O.E.M. Approvals
Deutz DQC III-10
MB-Approval 228.3
MTU Type 2
Volvo VDS-3
Renault RLD/RLD-2
Mack EO-N, EO-M Plus

Performance levels
ACEA E7
API: CI-4, CH-4
Caterpillar ECF-2, ECF-1-a
Cummins CES 20077/78
DDC 93K215
Global DHD-1
MAN M 3275-1

## Features & Benefits

### Ultimate protection and performance

All-Fleet heavy duty engine oil is formulated with high quality base oils and modern additive technologies to ensure ultimate protection and performance under all operating conditions in mixed fleet truck, bus and/or off-road applications.

### Cold start performance

Instant oil flow in very cold temperatures provides easy cold starts and optimal lubrication after ignition.

### Oxidation control

Formulated with high quality base oils to provide excellent oxidation control at high temperatures.

### Engine cleanliness

Carefully selected detergency additives have demonstrated to minimize deposits and help to keep the engine clean.

### Mixed fleet applications

Proven and trusted technology for use in mixed fleet truck, bus and off-road applications.

### Wear protection

The combination of high quality base oil and modern additive technology has resulted in excellent wear protection in varying operating conditions.

# 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 Extra Engine Oil	
SAE Viscosity Grade	15W-40
Viscosity, mm <sup>2</sup> /s @ 100 °C. ASTM D-445	14,4
Viscosity Index ASTM D-2270	≥125
Viscosity, mPa.s -20°C. ASTM D-5293	<7000
TBN, mg KOH/g ASTM D-2896	≥10.0
Pour Point, °C ASTM D-5949	≤ -33
Specific Gravity @ 15.6°C. ASTM D-4052	0,87 – 0,89
Flash Point, COC, °C. ASTM D-92	≥ 215

**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 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.

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