Lubricants - Engine Oil - Heavy Duty Engine Oils

Version: **EEE/132a**

Valvoline™ All-Fleet™ Superior LE-X 10W-40

Heavy-duty engine oil approved by leading OEMs, designed for use in a wide range of mixed fleet applications. This synthetic blend engine oil is engineered for long-term lubrication and optimal engine performance. ALL-FLEET™ SUPERIOR LE-X 10W-40 has been formulated to meet key industry and OEM claims, where 10W-40 is recommended.

OEM Approvals
Cummins CES 20086
Deutz DQC III-18 LA
DTFR 15C100 (MB-228.31)
Mack EOS-4.5
Renault VI RLD-3
Volvo VDS-4.5
Performance levels
ACEA E11, E9, E7
API CK-4, CJ-4, CI-4+, CI-4, CH-4, SN
Caterpillar ECF-3, ECF-2
Cummins CES 20081
Detroit Diesel DFS 93K222, 93K218
JASO DH-1, DH-2
Mack EO-N PP
MAN M3775, M3575
Volvo VDS-4, VDS-3

Applications

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

Features & Benefits

Ensures optimal engine performance
An ultra-modern additive system provides optimal engine performance. Strong oil film protects the engine against wear and corrosion. The unique formulation prevents deposit formation and protects against soot build-up.

Provides long-term lubrication
Premium additive package ensures smooth long-term engine lubrication and keeps the engine clean over extended service intervals and long-drain oil refreshment periods.

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-X SAE 10W-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.

VALVOLINE EUROPE
WIELDRECHTSEWEG 39
3316 BG DORDRECHT
NETHERLANDS



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 **https://www.valvolineglobal.com/en-eur/** or **http://pisheets.valvolineglobal.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-X Engine Oil	
SAE Viscosity Grade	10W-40
Viscosity, mm^2/s @ 100ºC ASTM D-445	14,8
Viscosity, mm^2/s @ 40ºC ASTM D-445	102,5
Viscosity Index ASTM D-2270	151
Viscosity, mPa.s –25°C ASTM D-5293	< 6800
TBN, mg KOH/g ASTM D-2896	9,6
Pour Point, ºC ASTM D-97	-39
Specific Gravity @ 15,6°C ASTM D-1298	0,867
Flash Point, COC, ºC ASTM D-92	224

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

Ellis Enterprises East doo Kruševac,
Affiliate of Valvoline Global Operations
Mike Stojanovića 15, 37000 Kruševac, Serbia
Registarski broj: 21368997 / TIN: 110618744

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.valvolineglobal.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 – EEE/132

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