



your local global brand

Gulfmar XLE 15W-40

*Extra High Performance Diesel Engine Oil
for Low Emission Engines*

Product Description:

Gulfmar XLE 15W-40 is an extra high performance diesel engine oil specially developed for use in modern, high-output, low emission four stroke cycle diesel engines meeting Euro IV, V, US 2007 on-highway and Tier 4 off-road exhaust emission standards. **Gulfmar XLE 15W-40** not only addresses the unique needs of these new engines and enhances the life of exhaust after treatment devices but also provides improved protection to older engines. **Gulfmar XLE 15W-40** is formulated with state-of-the-art additive technology and severely hydro processed base oils to provide outstanding performance and overall protection and exceeds the performance requirements of API CJ-4-service category and major global Original Equipment Manufacturers (OEMs) like MAN, Volvo, Mack, Cummins etc.

Gulfmar XLE 15W-40 has outstanding thermal- and oxidative stability that reduces low-temperature sludge build-up, high-temperature deposits and oil thickening. Excellent soot handling capability minimises soot related viscosity increase and leads to longer engine/oil life. Outstanding corrosive and abrasive wear protection extends life of engine components and superior shear stability maintains viscosity in severe high-temperature service and leads to improved wear protection. Exceptional TBN retention resists harmful effects of corrosive exhaust gases and extends oil life and low ash content reduces particulate build-up in Diesel Particulate Filter (DPF) and enhances its life.

Gulfmar XLE 15W-40 is applicable for the latest high performance low emission engines including those equipped with DPFs and Exhaust Gas Recirculation (EGR) and meeting Euro IV, V, US 2007 on-highway and Tier 4 off-road exhaust emission standards. Also applicable for on-highway vehicles and off-highway equipments operating in severe low speed/heavy load conditions using ultra low (15 ppm or less) sulphur fuels and specially for high performance inland marine high-speed diesel engines. When using **Gulfmar XLE 15W-40** with higher than 10 ppm sulfur fuel, consult the OEM for service interval.

Meets the specifications of:

API CJ-4/SM, ACEA E9/E7, Caterpillar ECF-3, ECF-2 & ECF-1a, MB 228.31
MAN M 3575, Mack EO-O Premium Plus, MTU Oil Category 2.1, DDC PGOS 93K218
Volvo VDS-4, Renault VI RLD-3, Cummins CES 20081

<u>Properties:</u>	<u>Test Methods:</u>	<u>Typical Values:</u>
SAE Viscosity Grade	SAE J300	15W-40
Density @ 15°C	ASTM D4052	881 kg/m ³
Kinematic Viscosity @ 40°C	ASTM D445	114 mm ² /s (cSt)
Kinematic Viscosity @ 100°C	ASTM D445	14.9 mm ² /s (cSt)
Low-Temperature Cranking Viscosity @ -20°C	ASTM D5293	<7000 mPa.s (cP)
Viscosity Index	ASTM D2270	136
Flash Point	ASTM D92	>215°C
Pour Point	ASTM D97	-36°C
Total Base Number	ASTM D2896	7.64 mgKOH/g
Sulphated Ash	ASTM D874	0.94 wt %

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