



Gulf Supreme Duty XLE

Extra high performance diesel engine oil for low emission engines

Product Description

Gulf Supreme Duty XLE series are extra high performance diesel engine oils specially developed for use in modern, high-output, low emission engines meeting US 2007 on-highway exhaust emission standards. These oils 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. These are formulated with state-of-the-art additive technology and severely hydro processed base oils to provide outstanding performance and overall protection. It exceeds the performance requirements of API CJ-4/ SM service categories and approved by major global OEMs like Volvo, Mack, Cummins, etc.

Features & Benefits

- Outstanding thermal and oxidative stability 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
- 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
- Low ash content reduces particulate build-up in Diesel Particulate Filter (DPF) and enhances its life

Applications

- Latest high performance low emission engines including those equipped with DPF and Exhaust Gas Recirculation (EGR) and meeting US 2007 on-highway exhaust emission standards
- On-highway vehicles and off-highway equipments operating in severe low speed/heavy load conditions using either low (500 ppm) or ultra low (15 ppm) sulphur fuels
- High performance gasoline engines and mixed fleet operations requiring oils meeting API CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4 CF-4, SM, SL and SJ performance levels

Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The

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Specifications, Approvals & Typical Properties

Meets the following Specifications		15W-40
API CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, SM, SL, SJ, ACEA E7/E9		X
CAT ECF 3, ECF 2 and ECF1a, MTU Oil Category 2.1		X
Has the following Approvals		
Volvo VDS-4, Renault VI RLD-3, Cummins CES 20081		X
Mack EO-O Premium Plus, DDC PGOS 93K218		X
MB-Approval 228.31, MAN M 3575		X
Typical Properties		
Test Parameters	ASTM Method	Typical Values
Viscosity @ 100 °C, cSt	D 445	14.9
Viscosity Index	D 2270	136
Flash Point, °c	D 92	230
Pour Point, °C	D 97	-27
TBN, mg KOH/g	D 2896	9.6
Density @ 15°C, Kg/l	D 1298	0.861
Sulphated Ash, %wt	D 874	0.97
Phosphorus, %wt	D 4927	0.113

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