



# Gulf Superfleet ULE

## Premium heavy duty diesel engine oil for Ultra low emission engines

### Product Description

**Gulf Superfleet ULE** series are premium performance heavy duty diesel engine oils meeting the latest API CK-4 service category and are specially developed for use in ultra low emission engines meeting the latest European and US emission standards. These oils address the unique needs of the latest engines and enhance the life of exhaust after treatment devices. These oils are formulated with state-of-the-art additive technology and severely hydroprocessed base oils to provide outstanding performance and overall protection having a potential to offer significantly extended drain intervals.

### 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>
- Superior shear stability maintains viscosity in severe service conditions 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 heavy duty diesel engines including those equipped with DPF and Exhaust Gas Recirculation (EGR) and meeting the latest European and US emission standards
- On-highway vehicles and off-highway equipment operating in severe low speed/heavy load conditions using either low (500 ppm) or ultra low (15 ppm) sulphur fuels
- Suitable for the use in earlier engine models requiring API CJ-4 and below quality oils
- Also suitable for heavy duty engines running on Natural Gas

### Specifications, Approvals & Typical Properties

Meets the following Specifications		5W-30	10W-40	10W-30
API CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, ACEA E6/E9/E7		X	X	X
MB 228.51, CAT ECF 3, ECF 2 & ECF1a, CES 20081, Volvo VDS-4, Mack EO-O, Renault Truck RLD-3, MTU Oil Category 3.1, Deutz DQC III-10 LA/ DQC-IV LA, MAN M 3477			X	X
MAN M 3271-1, MB 228.51				X
MB 228.51/ 228.31/ 235.28, CAT ECF-3, CES 20086/ 20081, Mack EO-O PP, Scania LA, Voith Class B, DQC IV-10 LA, DDC PGOS 93K218/ 93K222, JASO DH-2/DL-0, Renault RLD-4, MTU Oil Category 3.1/2.1, MAN M 3575/3677/3777		X		
Has the following Approvals				
API CK-4, Volvo VDS-4.5/ Mack EOS-4.5/ Renault VI RLD-3 approval		X	X	X
API CJ-4, MB-Approval 228.51			X	
API CJ-4				X
MAN Standard M 3677/ 3775				X
Typical Properties				
Test Parameters	ASTM Method	Typical Values		
Viscosity @ 100 °C, cSt	D 445	12.1	14.5	12.0
Viscosity Index	D 2270	167	152	145
Flash Point, °C	D 92	238	230	231
Pour Point, °C	D 97	-39	-33	-39
Density @ 15°C, Kg/l	D 1298	0.864	0.848	0.860
Phosphorus, %wt	D 4927	0.076	0.077	0.077
Sulphated Ash, %wt	D 874	0.99	0.99	0.99

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Properties mentioned are typical only and minor variations, which do not affect product performance, are expected to arise in normal manufacturing processes. Please follow equipment manufacturer's recommendations for performance level and viscosity grade. The Safety Data Sheet for this product is available from your nearest Gulf Distributor. Please consult our local representative if any further information is required.

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