



## Gulf Supreme Duty LE

### Commercial Vehicle Engine Oil

#### Product Description

**Gulf Supreme Duty LE 15W-40** is an extra high performance heavy duty diesel engine oil specifically developed to extend engine life in the most severe duty on and off-highway applications. The advanced formulation technology of this product ensures exceptional performance in modern, high output, low emission engines including those employing Exhaust Gas Recirculation (EGR) systems, as well as older engines operating on diesel fuel with low or high sulphur. It meets the latest performance requirements of major American and European OEMs.

#### Features & Benefits

- Exceptional thermo-oxidative stability reduces engine deposits, sludge build-up and oil thickening
- Outstanding soot handling capability minimises soot related viscosity increase and wear
- High shear stability maintains viscosity at elevated temperatures leading to improved wear protection and reduced oil consumption
- Superior protection against corrosive wear extends life of engine components
- Excellent TBN retention helps in countering harmful effects of corrosive exhaust gases and extending oil life

#### Applications

- Recommended for use in latest turbocharged and low emission high performance diesel engines including those employing EGR and meeting US 2004 emission norms introduced in 2002
- Recommended for applications in:
  1. On-highway trucking applications operating in high speed/high load and short haul pick-up/delivery vans
  2. Off-highway equipment operating in severe low speed/heavy load conditions including those used in construction, mining and agriculture
- Also recommended for high performance gasoline engines and mixed fleet operations
- Suitable for application requiring oils meeting API CI-4, CH-4, CG-4, CF-4 & CF performance levels

#### Specifications, Approvals & Typical Properties

Meets the following Specifications		SAE 15W-40
Global DHD-1		X
Caterpillar ECF-1a and ECF 2, MTU Oil Category 2, MAN M 3275		X
DDC DFS 93K214, Cummins CES 20078		X
Has the following Approvals		
API CI-4 with CI-4 PLUS		X
Volvo VDS-3/ Mack EO-N/ Renault VI RLD-2 approval		X
Daimler Truck Fluid Release 15B110		X
Typical Properties		
Test Parameters	ASTM Method	Typical Values
Viscosity @ 100 °C, cSt	D 445	15.6
Viscosity Index	D 2270	138
Flash Point, °C	D 92	228
Pour Point, °C	D 97	-39
TBN, mg KOH/g	D 2896	10.9
Density @ 15°C, Kg/l	D 1298	0.870
Sulphated Ash, wt%	D 874	1.37

July 2025

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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