



## Gulf Supreme Duty LE 15W-40 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:
  - a. On-highway trucking applications operating in high speed/high load and short haul pick-up/delivery vans
  - b. 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		
API CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, CF, SL		
ACEA E5, E3		
Caterpillar ECF-1a and ECF 2, Volvo VDS-2		
DaimlerChrysler MB 228.3		
Has the following Approvals		
API CI-4 PLUS & API CI-4		
Mack EO-N Premium Plus 03		
DDC Power Guard oil specification 93K214		
Cummins CES 20078		
Typical Properties		
Test Parameters	ASTM Method	Typical Values
Viscosity @ 100 °C, cSt	D 445	14.50
Viscosity Index	D 2270	135
Flash Point, °C	D 92	230
Pour Point, °C	D 97	-33
TBN, mg KOH/g	D 2896	11.00
Density @ 15°C, Kg/l	D 1298	0.87
Sulphated Ash, wt%	D 874	1.50

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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 Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

Gulf Oil International

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