



# Gulf Superfleet Supreme+

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

### Product Description

**Gulf Superfleet Supreme+** is premium performance heavy duty diesel engine oil specially developed for use in ultra low emission engines meeting the latest US and European emission standards. It helps to minimise soot build-up in the engine ensuring the engine runs cleaner for longer, delivering better maintained engine with reduced downtime. This oil addresses the unique needs of the latest engines and enhances the life of exhaust after treatment devices. It is formulated with state-of-the-art additive technology and severely hydroprocessed base oils to provide excellent performance and overall protection having a potential to offer extended drain intervals. It meets the performance requirements of API CK-4 service category. It is also backward compatible for the use in older engines requiring API CJ-4 and below quality oils.

### Features & Benefits

- Excellent soot handling capability minimises soot related viscosity increase and leads to longer engine/oil life.
- Outstanding thermal and oxidative stability reduces low-temperature sludge build-up, high-temperature deposits and oil thickening.
- 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 US and European 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 engine models requiring API CK-4 and below quality oils.

### Specifications, Approvals & Typical Properties

| Meets the following Specifications  |             | 10W-30         | 15W-40 |
|---|-------------|----------------|--------|
| ACEA E11, Deutz DQC III-18 LA   |             | X              |        |
| MTU Type 2.1  |             | X              | X      |
| ACEA E7/ E11, Deutz DQC III-10LA, Ford WSS-M2C171-F1, Caterpillar ECF-3, Detroit Diesel DDC DFS 93K222, Cummins CES 20086 |             |                | X      |
| Has the following Approvals   |             |                |        |
| API CK-4, Volvo VDS-4.5/ Mack EOS-4.5/ Renault VI RLD-3 approval  |             | X              | X      |
| DTFR 15C100 (previously known as MB 228.31)   |             | X              | X      |
| Typical Properties  |             |                |        |
| Test Parameters   | ASTM Method | Typical Values |        |
| Viscosity @ 100 °C, cSt   | D 445       | 12.0           | 15.6   |
| Viscosity Index   | D 2270      | 143            | 133    |
| Flash Point, °C   | D 92        | 230            | 230    |
| Pour Point, °C  | D 97        | -33            | -30    |
| Density @ 15°C, Kg/l  | D 1298      | 0.887          | 0.862  |
| Phosphorus, %wt   | D 4927      | 0.11           | 0.11   |
| Sulphated Ash, %wt  | D 874       | 1.0            | 0.96   |

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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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