



## Gulf Fleet Force Synth Commercial Vehicle Engine Oil

### Product Description

**Gulf Fleet Force Synth** is extra high performance synthetic heavy-duty diesel engine oil developed to meet the requirements of modern European engines meeting Euro IV emission norms. It is formulated with premium quality base fluids and advanced additive technology to offer superior engine protection and significantly extended drain intervals. This oil meets the latest ACEA E7 & ACEA E4 specifications and is suitable for severe duty applications and extended service life in most modern European vehicles. It also meets the requirements of various North American & Japanese OEMs and is available in two different viscometrics – SAE 5W-30 & SAE 10W-40.

### Features & Benefits

- Exceptional anti-wear property provides enhanced protection against wear & corrosion and bore polishing to ensure longer engine life
- Excellent soot handling capability minimises soot related wear and oil thickening
- Outstanding thermo-oxidative stability reduces sludge build-up & deposits and controls viscosity increase
- Advanced detergency/dispersancy results in cleaner engines and longer component life
- Excellent low temperature fluidity along with high temperature viscosity retention ensures highest degree of reliability even under severe operating conditions
- Superior TBN retention property coupled with above features lead to significantly extended drain intervals

### Applications

- Latest heavy-duty diesel vehicles not employing diesel particulate filters operating in very low ambient temperatures. SAE 5W-30 is also suitable for engines employing Exhaust Gas Recirculation
- All turbocharged and naturally aspirated diesel engines used in on-road applications, mining, construction and other off highway applications
- Extended oil drain interval applications

### Specifications, Approvals & Typical Properties

| Meets the following Specifications                                                                    |             | 5W-30          | 10W-40 |
|-------------------------------------------------------------------------------------------------------|-------------|----------------|--------|
| API CF, DTFR 15B120 (Previously known as MB 228.5), MAN M 3277, Cummins CES 20072, MTU Oil Category 3 |             |                | X      |
| Mack EO-N/ EO-M Plus, Renault VI RXD/ RLD-2, Volvo VDS-3                                              |             | X              |        |
| Cat ECF-2, Deutz DQC IV-10, MAN M 3277, M 3377                                                        |             | X              |        |
| Has the following Approvals                                                                           |             |                |        |
| API CI-4, MTU Oil Category 3                                                                          |             | X              |        |
| Typical Properties                                                                                    |             |                |        |
| Test Parameters                                                                                       | ASTM Method | Typical Values |        |
| Viscosity @ 100 °C, cSt                                                                               | D 445       | 11.70          | 14.50  |
| Viscosity Index                                                                                       | D 2270      | 164            | 160    |
| Flash Point, °C                                                                                       | D 92        | 222            | 230    |
| Pour Point, °C                                                                                        | D 97        | -54            | -33    |
| TBN, mg KOH/g                                                                                         | D 2896      | 12.50          | 15.80  |
| Density @ 15°C, Kg/l                                                                                  | D 1298      | 0.86           | 0.86   |
| Sulphated Ash, wt%                                                                                    | D 874       | 1.32           | 1.85   |

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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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