



## Gulfmar Select

*Trunk piston engine oil for medium speed diesel  
engines operating on residual fuels*

### Product Description

**Gulfmar Select** is a trunk piston engine oil designed for use in medium speed diesel engines operating on residual fuels in marine, power generation and industrial applications. The superior additive technology used in this oil provides excellent engine cleanliness & wear protection under different operating conditions. This oil is available in SAE 30 & 40 viscosity grades with a TBN (Total Base Number) ranging from 20 to 55. Each grade has got a suffix of 3 digits in which the first digit indicates the SAE grade (e.g. 3 indicates SAE 30 and 4 indicates SAE 40) and the last two digits indicate the TBN. These oils exhibit a high degree of water tolerance and have better water separation and base retention properties. These oils meet the performance requirements of API CF.

### Features & Benefits

- Excellent detergency reduces build-up of soot & black sludge and keeps the engine cleaner
- Acidic by-products are effectively neutralised and the engine is protected from corrosive wear
- Better demulsibility characteristics ensure water separation leading to trouble free operation
- Robust antiwear technology provides protection against piston & linear wear and good gear performance leading to reduction in maintenance costs
- Improved thermo-oxidative stability retards oil degradation facilitating extended oil life

### Applications

- Recommended for medium speed diesel engines in marine, power generation and industrial applications operating on residual fuels. Specially recommended for older engines where oil consumption is relatively high
- **Gulfmar Select 455** having a TBN of 55 is specifically formulated for the engines fitted with operating on high sulphur residual fuels. These oils are also specially recommended for those engines where oil has to stay for a longer time and there is a need for less frequent top-up
- **Gulfmar Select 340 & 440** having a TBN of 40 are suitable for the engines operating on residual fuels having sulphur content in excess of 3.5%
- **Gulfmar Select 330 & 430** having a TBN of 30 are suitable for engines operating on residual fuels having sulphur content in excess of 2.5% and up to 3.5 %
- **Gulfmar Select 320 & 420** having a TBN of 20 are suitable for engines operating on residual fuels having sulphur content up to 2.5 %
- Also recommended for general lubrication of shipboard equipment where specialised lubricants are not required or use of API CF quality oils are adequate

### Specifications, Approvals & Typical Properties

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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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| Gulfmar Select                     |             | 320            | 420  | 330  | 430  | 340  | 440  | 455  |
|------------------------------------|-------------|----------------|------|------|------|------|------|------|
| Meets the following Specifications | SAE Grade   | 30             | 40   | 30   | 40   | 30   | 40   | 40   |
|                                    | TBN         | 20             |      | 30   |      | 40   |      | 55   |
| API CF                             |             | X              | X    | X    | X    | X    | X    | X    |
| Has the following Approvals        |             |                |      |      |      |      |      |      |
| SEMT Pielstick                     |             | X              | X    | X    | X    | X    | X    | X    |
| NKK Plant Engineering Corp         |             |                | X    |      | X    |      | X    |      |
| MWM Deutz                          |             |                |      |      | X    |      |      |      |
| Alstom                             |             |                |      | X    | X    |      | X    |      |
| Fuji Technical Services Pvt. Ltd.  |             |                | X    |      | X    |      | X    |      |
| Typical Properties                 |             |                |      |      |      |      |      |      |
| Test Parameters                    | ASTM Method | Typical Values |      |      |      |      |      |      |
| Viscosity @ 100 °C, cSt            | D445        | 11.2           | 14.2 | 11.1 | 14.2 | 11.3 | 14.3 | 14.2 |
| Viscosity Index                    | D 2270      | 98             | 95   | 97   | 95   | 96   | 96   | 95   |
| Flash Point, °C                    | D 92        | 232            | 242  | 228  | 244  | 234  | 246  | 242  |
| Pour Point, °C                     | D 97        | -18            | -18  | -18  | -18  | -18  | -18  | -18  |
| TBN, mg KOH/g                      | D 2896      | 20             | 20   | 30   | 30   | 40   | 40   | 55   |
| Density @ 15°C, Kg/l               | D 1298      | 0.89           | 0.90 | 0.90 | 0.90 | 0.91 | 0.91 | 0.92 |
| Sulphated Ash, %wt                 | D 874       | 2.7            | 2.7  | 3.9  | 3.9  | 5.2  | 5.2  | 7.1  |

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