



Gulfmar Select Plus

Advanced trunk piston engine oil for modern medium speed diesel engines operating on residual fuels

Product Description

Gulfmar Select Plus is a premium quality multifunctional trunk piston engine oil designed for use in the latest highly rated medium speed diesel engines operating on residual fuels in marine, power generation and industrial applications. The advanced sludge control additive technology used in this oil meets the ever increasing demands of medium speed diesel engines and provides exceptional engine cleanliness and wear protection. 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 (eg. 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

- Exceptional detergency reduces build-up of soot & black sludge, improves tolerance for heavy fuel contaminants and keeps the engine clean
- Acidic by-products are effectively neutralised and the engine is protected from corrosive wear by the unique formulation providing the reserve alkalinity
- Superior demulsibility characteristics ensure water separation leading to trouble free operation
- Robust antiwear technology provides excellent piston & linear wear control and good gear performance leading to reduction in maintenance costs
- Excellent thermo-oxidative stability retards oil degradation facilitating extended oil life

Applications

- Recommended for modern medium speed engines used in marine, power generation and industrial applications operating on residual fuels
- **Gulfmar Select Plus 350 & 450 and Gulfmar Select Plus 355 & 455** having a TBN of 50 and 55 respectively are specifically formulated for the modern low oil consuming engines fitted with 'anti polishing', 'flame' or 'fire' rings and 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 Plus 340 & 440** having a TBN of 40 are suitable for the modern low oil consuming engines operating on residual fuels having sulphur content in excess of 3.5%
- **Gulfmar Select Plus 330 & 430** having a TBN of 30 are suitable for the modern engines operating on residual fuels having sulphur content in excess of 2.5% and up to 3.5 %
- **Gulfmar Select Plus 320 & 420** having a TBN of 20 are suitable for the modern 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 & Typical Properties

| Gulfmar Select Plus | | 320 | 420 | 330 | 430 | 340 | 440 | 350 | 450 | 355 | 455 |
|------------------------------------|-------------|----------------|------|------|------|------|------|------|------|------|------|
| Meets the following Specifications | SAE Grade | 30 | 40 | 30 | 40 | 30 | 40 | 30 | 40 | 30 | 40 |
| | TBN | 20 | | 30 | | 40 | | 50 | | 55 | |
| API CF | | X | X | X | X | X | X | X | X | X | X |
| Typical Properties | | | | | | | | | | | |
| Test Parameters | ASTM Method | Typical Values | | | | | | | | | |
| Viscosity @ 100 °C, cSt | D445 | 11.1 | 14.2 | 11.1 | 14.1 | 11.3 | 14.3 | 11.2 | 14.2 | 11.2 | 14.3 |
| Viscosity Index | D 2270 | 98 | 95 | 97 | 95 | 97 | 96 | 97 | 96 | 98 | 96 |
| Flash Point, °C | D 92 | 232 | 242 | 236 | 242 | 238 | 246 | 240 | 244 | 240 | 246 |
| Pour Point, °C | D 97 | -18 | -18 | -18 | -18 | -18 | -18 | -18 | -18 | -18 | -18 |
| TBN, mg KOH/g | D 2896 | 20 | 20 | 30 | 30 | 40 | 40 | 50 | 50 | 55 | 55 |
| Density @ 15°C, Kg/l | D 1298 | 0.89 | 0.98 | 0.90 | 0.90 | 0.91 | 0.91 | 0.92 | 0.92 | 0.92 | 0.92 |
| Sulphated Ash, %wt | D 874 | 2.5 | 2.5 | 3.69 | 3.69 | 4.87 | 4.87 | 6.06 | 6.06 | 6.64 | 6.64 |