



# Gulfgen Supreme Plus

## *Medium Speed Trunk Piston Marine Diesel*

### *Engine Oil for Power Gensets*

#### Product Description

**Gulfgen Supreme Plus** series are premium quality trunk piston engine oils designed for use in the modern low oil consumption medium speed marine diesel engines operating on residual fuels (Heavy Fuel Oil - HFO) in power generation and industrial applications. It is blended from severely hydrotreated base oil and special performance additives. 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 BN (Base Number) ranging from 30 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 BN. These oils exhibit a high degree of water tolerance and base retention properties. **Gulfgen Supreme Plus** series has been tested by Wärtsilä and is listed by them.

#### 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 neutralized and the engine is protected from corrosive wear by the unique formulation providing the reserve alkalinity
- Better demulsibility characteristics ensure water separation leading to trouble free Operation.
- Robust anti-wear 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 long periods of operation.

#### Applications

- Recommended for medium speed diesel engines in power generation and industrial applications operating on residual fuels.
- **Gulfgen Supreme Plus 355 & 455** having a BN of 55 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.
- **Gulfgen Supreme Plus 340 & 440** with a BN of 40 are suitable for engines operating on residual fuels having sulphur content in excess of 3.5%
- **Gulfgen Supreme Plus 330 & 430** with a BN of 30 are suitable for engines operating on residual fuels having sulphur content in excess of 2.5% and up to 3.5 %.

#### Specifications, Approvals & Typical Properties

Gulfgen Supreme Plus		330	430	340	440	355	455
	SAE Grade	30	40	30	40	30	40
	Base No. (BN)	30		40		55	
Typical Properties							
Test Parameters	ASTM Method	Typical Values					
Viscosity at 100 °C, cSt	D 445	11.0	14.5	11.1	14.6	11.2	14.7
Viscosity at 40 °C, cSt	D 445	92.54	140.62	93.70	141.34	95.55	144.1
Viscosity Index	D 2270	104	102	104	102	103	101
BN, mg KOH/gm	D 2896	30.7	30.7	40.6	40.6	56.4	56.4
Flash Point, °C	D 92	222	231	225	234	225	237
Pour Point, °C	D 97	-18	-18	-18	-18	-18	-18
Density @ 15°C, kg/l	D 1298	0.8925	0.8925	0.8966	0.8991	0.9081	0.9094

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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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