



# ENMAR MSDO

## PRODUCT DESCRIPTION

**ENMAR MSDO** are a range of new generation high performance engine oils for all types of marine medium speed diesel engines operating on low sulphur residual or distillate fuels. They have been developed from the latest complex dispersant and detergent technology to provide long lubrication life and enhanced engine performance particularly in low emission engines and those with anti-bore glazing piston designs.

## APPLICATIONS

- ◆ A range of low Total Base Number oils for use in Trunk Piston Engines burning variable quality residual or distillate fuel with low sulphur content available in the market
- ◆ Provide gear lubrication qualities for reduction gear applications where similar viscosities might be used
- ◆ Suitable for high output turbocharged engines
- ◆ It is recommended that Strata MSDO oils are suitable for centrifuging and/or filtered in accordance with the manufacturer's instructions
- ◆ Suitable for MAN (B&W), KHD DEUTZ, PIELSTICK, NIGATA, MAK, DAIHATSU, MIRLESS BLACKSTONE trunk piston diesel engines (4 Stroke)

## BENEFITS

### ENMAR MSDO provides:

- ◆ Suitability for engines using low sulphur residual or distillate fuels
- ◆ Superior resistance to oxidation and oil thickening
- ◆ Effective neutralisation of acidic combustion products
- ◆ Proven detergent/dispersant technology to reduce deposit formation
- ◆ Long engine and oil service life
- ◆ Excellent centrifugal separator operation

Technical Data*		
Product Grade	320	420
SAE Viscosity	30	40
Density @ 15 deg. C, Kg/L	0.9008	0.9011
Kinematic Viscosity, mm <sup>2</sup> /s @ 100°C	11.66	14.55
Kinematic Viscosity, mm <sup>2</sup> /s @ 40°C	104.3	147
Flash Point °C	240	252
Pour Point, °C	-15	-15
Total Base Number, mg KOH/g	20	20
FZG fail stage (A8.3/90)	12	12

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