

## ENMAR LSF

### PRODUCT DESCRIPTION

ENMAR LSF - are a range of high-performance Marine Engine oils developed for high output, Trunk Piston Diesel Engines burning distillate or medium sulphur heavy gas oil fuel. They incorporate proven performance dispersant and detergent technology developed to provide long life lubrication in modern and older engines that are operating in coastal shipping or power generation applications.

### APPLICATIONS

- ◆ High output Trunk Piston Engines burning distillate fuels where the sulphur content is <0.5%.
- ◆ Lubrication of turbocharged Trunk Piston Engines used in marine and stationary applications.
- ◆ Generally, for the smaller, higher rpm medium speed engines also suitable for stand-by generations.

### BENEFITS

#### ENMAR LSF provides:

- ◆ Improved dispersant/detergent technology to reduce deposit formations.
- ◆ Long engine and oil service lives.
- ◆ Effective neutralization of combustion acids.
- ◆ Excellent protection against bearing corrosion.
- ◆ Superior resistance to oxidation and oil thickening Technical.

ENMAR LSF meets performance MAN B&W; WARTSILA and Cummins for four-stroke engines.

Technical Data *				
ENMAR LSF		312	412	512
SAE Viscosity Grade		30	40	50
Kinematic Viscosity @ 40°C, ASTM D-445	mm <sup>2</sup> /s	105.7	145.4	252.1
Kinematic Viscosity @ 100°C, ASTM D-445	mm <sup>2</sup> /s	11.98	14.66	21.48
Viscosity Index		100	99	100
Flash point, COC, ASTM D-92	°C	>245	>245	>245
Pour Point, ASTM D-97	°C	-15	-15	-15
Total Base Number ASTM D2896	Mg KOH/g	12	12	12

Technical Data *				
ENMAR LSF		315	415	515
SAE Viscosity Grade		30	40	50
Kinematic Viscosity @ 40°C, ASTM D-445	mm <sup>2</sup> /s	105.7	145.4	252.1
Kinematic Viscosity @ 100°C, ASTM D-445	mm <sup>2</sup> /s	11.98	14.66	21.48
Viscosity Index		100	99	100
Flash point, COC, ASTM D-92	°C	>245	>245	>245
Pour Point, ASTM D-97	°C	-15	-15	-12
Total Base Number ASTM D2896	Mg KOH/g	15	15	15

\*The information prepared provides the typical properties that are considered as representative. Some variation which will not affect performance is possible.

 **HEALTH AND SAFETY, ENVIRONMENT**

The information on this product is available in the ENMAR Material Safety Data Sheet (MSDS) as a guide to the precautions and safe handling of this product and its disposal. For further information we recommend you review the MSDS. Handled correctly there are no special precautions suggested.

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