

## ENMAR CYL 5100

### PRODUCT DESCRIPTION

**ENMAR CYL 5100** is a high alkaline cylinder lubricating oils for the lubrication of modern large bore turbocharged crosshead two stroke diesel engines. It is blended from highly refined base oils and modern complex detergent technology additives to provide high performance protection against cylinder scuffing through maintaining excellent film strength and effective acid neutralizing properties where high sulphur fuels are used.

### APPLICATIONS

- ◆ Cylinder lubrication in the latest, large bore turbocharged marine crosshead diesel engines requiring 100TBN oils to meet the most demanding requirements of the residual fuels with sulphur levels >3 % wt.
- ◆ 100 TBN cylinder oils for specific high output engines where oil consumption has been reduced to meet international marine engine exhaust low emissions using high sulphur fuel.

### RECOMMENDATIONS

**ENMAR CYL 5100** is recommended for modern low speed crosshead two stroke diesel engines where the cylinder lubrication requires specialized high base number detergent properties to provide resistance to bore polishing and the formation of heavy carbon deposits on the piston crown and ring belt areas. Also, to minimize the build-up of carbon deposits in the combustion chamber and exhaust ports. Their high viscosity and lubricity maintain a strong oil film to reduce cylinder and ring wear and provide piston and ring lubrication under the harsh operating conditions.

### BENEFITS

**ENMAR CYL 5100 provides:**

- ◆ Extended liner and piston ring life through effective neutralization of acidic combustion products.
- ◆ Reduced carbon deposits in the combustion chamber, exhaust ports and cylinder and piston ring areas through the latest complex tri-based detergent technology
- ◆ Minimized scuffing of pistons, ring, and liners
- ◆ Excellent corrosive wear protection

**ENMAR CYL 5100 meets performance MAN B&W and WARTSILA two-stroke engines.**

Technical Data *		
ENMAR CYL 5100		
SAE Viscosity Grade		50
Density @15°C	g/mL	0,957
Kinematic Viscosity @ 40°C, ASTM D-445	mm <sup>2</sup> /s	205.0
Kinematic Viscosity @ 100°C, ASTM D-445	mm <sup>2</sup> /s	19.50
Flash point, COC, ASTM D-92	°C	>230
Pour Point, ASTM D-97	°C	-12
Total Base Number ASTM D2896	Mg KOH/g	100

\* 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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