

# MARINA CYL

## Slow Speed Marine Diesel Engine Cylinder Oil

**MARINA CYL** is a high alkaline oil blended using highly-refined, paraffinic base stocks with carefully-selected, modern, complex detergent additives. It provides excellent cleaning and high performance corrosive wear protection for rings and liners.

### Product Applications:

- ▀ Low speed marine diesel engines operating at a very high mechanical load and higher liner wall temperature
- ▀ Uses CYL 505 for low-speed crosshead, two-stroke marine diesel engines burning distillate fuel with sulphur content ranging between 1.5% to 2.0%
- ▀ Uses CYL 705 for low-speed crosshead, two-stroke marine diesel engines burning distillate fuel with sulphur content of no more than 3.5%
- ▀ Combustion chambers of the modern large bore turbocharged cross-head, two-stroke diesel engines where a high level of acid stress occurs

### Performance Benefits:

- ▀ Outstanding acid neutralizing properties from a high base number, helping to prolong the life of engine components
- ▀ High resistance to bore polishing and the formation of heavy carbon deposits on the piston crown areas
- ▀ Keeps engine scavenge air ports and cylinder liner and ring belt areas exceptionally clean
- ▀ Excellent protection against piston and liner scuffing

TYPICAL SPECIFICATIONS:			
Test Parameters	Test Method	Results	
Product Name		CYL 505	CYL 705
SAE Viscosity Grade		50	50
Kinematic Viscosity @ 100°C, cSt	ASTM D7042	190	195
Kinematic Viscosity @ 40°C, cSt	ASTM D7042	17.2	17.1
Viscosity Index	ASTM D2270	96	93
Density @ 15°C, kg/L	ASTM D4052	0.925	0.941
Flash Point, °C (min)	ASTM D3828	220	225
Pour Point, °C (max)	ASTM D97	-15	-15
TBN, mg KOH/g sample	ASTM D4739	50	70
ASTM Color	ASTM D1500	L2.0	L2.0

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