

QATOL MANTA RAY SO 307

A premium-quality system oil for crosshead engines that can also be used in many different items of marine equipment.



PRODUCT DESCRIPTION:

QATOL MANTA RAY SO 307 system oils have been specifically designed for the lubrication of slow speed two-stroke crosshead diesel engines. It is available in three different viscosity grades to help you optimize the overall viscosity of your system oil when topping up.

QATOL MANTA RAY SO 307 is formulated using high-quality paraffinic mineral base oils and selected additives to meet the needs of a wide range of marine engine manufacturers. It is designed primarily for use in marine low speed cross-head diesel engine applications, where excellent water-shedding characteristics are required.

APPLICATION:

QATOL MANTA RAY SO 307 Marine System Oil is suitable for use in:

- Crankcases of conventional large marine low-speed cross-head diesel engines, with water-cooled pistons.
- Crankcases of modern high-output cross-head diesel engines, with oil-cooled pistons.
- Crankcases of latest designs of camless engines.
- Stern tubes and auxiliary equipment.

ADVANTAGES/BENEFITS:

- Excellent water-shedding properties enable water to be easily removed from the oil and therefore increase oil life and reduce the risk of bacterial growth.
- Neutralises acidic fuel combustion products thereby preventing rusting and corrosion of engine bearings, and corrosive wear of cylinder liners.
- Good anti-rust and anti-corrosion properties protect engine bearings and extend bearing life.
- Excellent detergency and dispersancy characteristics keep the engine clean and prevent the formation of deposits under oil-cooled pistons, protecting components against wear, reducing oil filter blockage, and prolonging engine service life and oil life.
- Excellent load-carrying properties prevent wear of heavily loaded bearings, extending component life and reducing maintenance costs.
- Good thermal and oxidation stability, especially important in modern oil-cooled piston engine designs, prevent oil thickening in service, keeping the oil in grade, and so prolong oil life.
- Good air release and antifoaming properties ensure optimum oil film thickness is maintained and prevents foaming problems.
- Good hydraulic oil properties ensure suitability for use in the latest designs of camless engines

KEY PROPERTIES:

PROPERTIES	TEST METHOD	TYPICAL VALUES	UNIT
Density @ 15 °C	ASTM D 4052	0.89	g/ml
Kinematic Viscosity @ 40 °C	ASTM D 445	111	mm ² /s
Kinematic Viscosity @ 100 °C	ASTM D 445	11.9	mm ² /s
Viscosity Index	ASTM D 2270	95	-
TBN	ASTM D 2896	7	mg KOH/g
Flash Point, CoC	ASTM D 92	235	°C
Pour Point	ASTM D 97	-18	°C
FZG test (A/8.3/90), failure load stage	CEC-L-07-95	11	

AVAILABLE PACKAGES: 208L, 25L, 20L,