

# VOYAGER MARINE 450

## DESCRIPTION

VOYAGER MARINE 450 is a highly alkaline trunk piston engine oil for crankcase and cylinder lubrication requirement of medium-speed marine engines burning high sulphur residual fuels. It is a combination of high quality base oils and additives designed to impart acid neutralization, detergent, dispersant properties and oxidation stability.

## APPLICATIONS

VOYAGER MARINE 450 is recommended as crankcase engine oil for medium speed engines operating on high sulfur fuels.

## BENEFITS

- Excellent TBN retention with low oil consumption.
- Cleaner piston, ports and cylinder.
- Fast separation from water in case of water contamination.
- Extend oil life and drain intervals.
- Low under crown deposits.
- Control sludge formation.

## PERFORMANCE LEVEL

API ..... CF

## PRODUCT TYPICAL CHARACTERISTICS

PROPERTIES		UNITS	VALUE	TEST METHOD
Product		-	450	-
Specific Gravity	@ 15°C	-	0.9030	ASTM D-1298
Viscosity	@ 40°C	mm <sup>2</sup> /s	142.0	ASTM D-445
	@ 100°C	mm <sup>2</sup> /s	14.0	ASTM D-445
Viscosity Index		-	95	ASTM D-2270
Flash Point	COC	°C	260	ASTM D-92
Pour Point		°C	-9	ASTM D-97
Base Number		mg KOH/g	50	ASTM D-2896
Color		-	3.5Dil	ASTM D-1500