

KOYOTO MARINE GUARD 50 SERIES

High Performance Monograde Marine Diesel Engine Oils

KOYOTO
LUBRICANTS

Product Data Sheet

Product Description

KOYOTO MARINE GUARD 50 series is a range of extra high performance 50 TBN marine diesel engine oils formulated with premium quality base stocks and high performance additive detergent technology to ensure optimum performance and protection for highly rated trunk piston engines. They are designed to operate efficiently in severe residual-fuelled medium-speed diesel applications found in marine and stationary power industries. These TPEOs provide outstanding residual fuel compatibility and excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston under crowns operating under severe conditions. c

Features & Benefits

- Excellent oxidation & thermal stability reduces deposits formation in piston under crown and ring belt areas.
- Outstanding protection against ring and liner wear.
- Excellent protection from rust and corrosion even in presence of water.
- Excellent oil filtration and centrifuging capabilities.
- High detergency & low dispersancy capabilities, ensures engine cleanliness and releases contaminants & water readily in centrifugal separators.
- Very high TBN reserves & retention, gives rapid neutralization of strong acidic combustion products and provides long term protection against corrosive wear of ferrous & non-ferrous metals.

Specifications

KOYOTO MARINE GUARD 50 series meets or exceeds following International and Builder specifications:

- API CF

Application

- Suitable for lubricating Medium-speed Trunk piston engines in industrial or marine propulsion and auxiliary engines on deep sea vessels, burning on residual fuel oils with sulfur levels of 1.5% to 3.5%.
- Suitable for use in the latest model medium speed diesel engines, facilitating low crankcase oil consumption and useful in engines operating with low cylinder liner temperatures.
- Marine engine reduction gears, stern tubes & bearings and certain other ship-board applications.

Typical Characteristics

KOYOTO Marine Guard	Test Method	Units	5030	5040	5050
SAE Grade	--	--	30	40	50
Density @ 15 °C	ASTM D 4052	gm/cc	0.892	0.900	0.904
Viscosity @ 100 °C	ASTM D 445	cSt	11.6	14.6	19.2
Viscosity @ 40 °C	ASTM D 445	cSt	103	145	218
Viscosity Index	ASTM D 2270	-	100	99	99
Pour Point	ASTM D 97	°C	-9	-9	-6
Flash Point (COC)	ASTM D 92	°C	245	268	276
Total Base Number	ASTM D 2896	mg KOH/g	50	50	50
Sulphated Ash	ASTM D 874	wt%	6.4	6.4	6.4

The above figures are typical of blends with normal production tolerance and do not constitute a specification.