

KOYOTO MARINE GUARD 12 SERIES

High Performance Monograde Marine Diesel Engine Oils

KOYOTO
LUBRICANTS

Product Data Sheet

Product Description

KOYOTO MARINE GUARD 12 series is a range of high performance marine diesel engine oils formulated with premium quality base stocks and selected additives to ensure optimum performance and protection for trunk piston engines, operating on MDO and low sulphur distillate fuels. Suitable for high BMEP medium to high speed diesel engines in Marine and Industrial applications, where monograde oils are specified. It provides excellent protection in engines, against high temperature piston deposits, wear, corrosion and foaming under severe operating conditions.

Features & Benefits

- Excellent oxidation & thermal stability reduces sludge build up and keeps the engine cleaner.
- Outstanding protection against ring and liner wear.
- Excellent filtration and centrifuging capabilities, due to superior water separation property.
- Well balanced detergency & dispersancy capabilities, ensures cleanliness and long life for engine and transmission systems.
- Optimal TBN reserves, provides improved acid neutralization and protection against corrosive wear.

Specifications

KOYOTO MARINE GUARD 12 series meets or exceeds following International and Builder specifications:

- API CF

Application

- Suitable for use in latest model diesel engines, including MAN BandW Alpha, Caterpillar (3600 Series), Deutz and Wartsila engines.
- Suitable for lubricating high and medium speed Diesel engines, used for fishing fleets and river transport applications.
- Main and auxiliary engines of all types and ratings, naturally-aspirated, turbocharged or supercharged.
- Clutched reduction driver, reversing gears system, stern tubes and bearings

Typical Characteristics

KOYOTO Marine Guard	Test Method	Units	1230	1240	1250
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	-18	-18	-15
Flash Point (COC)	ASTM D 92	°C	245	268	276
Total Base Number	ASTM D 2896	mg KOH/g	12	12	12
Sulphated Ash	ASTM D 874	wt%	1.3	1.3	1.3

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