

# KOYOTO MARINE GUARD 6 SERIES

High Performance Monograde - Marine Diesel Engine System Oils

**KOYOTO**  
LUBRICANTS

## Product Data Sheet

### Product Description

KOYOTO MARINE GUARD 6 series is a range of high performance marine multipurpose system oils formulated with high quality paraffinic base stocks and balanced additive system to ensure optimum performance and excellent protection in low speed, high output cross head marine engines, operating on residual fuels. It has sufficient alkalinity to neutralize any strong acidic combustion products which may enter into the crankcase and it demonstrates high load carrying ability under severe operating conditions.

### Features & Benefits

- Improved oxidation & thermal stability reduces deposits build up in crankcase & piston cooling spaces and facilitates better piston cooling efficiency.
- Good resistance to the action of water and separation capability improves oil life and provides effective lubrication even in presence of water.
- Excellent filtration and centrifuging capabilities.
- Excellent resistance to rust & corrosion enhances bearing life.
- Excellent TBN reserves provides improved neutralization of strong acids, formed due to burning of high sulfur fuels entering inside the system, which helps in keeping the crankcase & circulation tanks cleaner.

### Specifications

**KOYOTO MARINE GUARD 6 series meets or exceeds following International and Builder specifications:**

- API CD
- US Military MIL-L-2104C

### Application

- Suitable for lubricating crankcase systems of low speed cross head marine engines, operating on residual fuels.
- Turbochargers, geared transmissions, variable pitch propeller and Oil lubricated stern tubes & bearings.
- Deck machinery and other ancillary equipment requiring an SAE 30 or 40 oil specifications.

### Typical Characteristics

KOYOTO Marine Guard	Test Method	Units	630	640
SAE Grade	--	--	30	40
Density @ 15 °C	ASTM D 4052	gm/cc	0.892	0.900
Viscosity @ 100 °C	ASTM D 445	cSt	11.6	14.6
Viscosity @ 40 °C	ASTM D 445	cSt	103	145
Viscosity Index	ASTM D 2270	-	100	99
Pour Point	ASTM D 97	°C	-15	-12
Flash Point (COC)	ASTM D 92	°C	245	268
Total Base Number	ASTM D 2896	mg KOH/g	6	6
Sulphated Ash	ASTM D 874	wt%	0.8	0.8

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