



MARINE OIL

Motorol Marine 12/40, 20/40, 30/40, 40/40, 50/40



Introduction:

MOTOROL MARINE are premium quality heavy duty diesel engine. This oil contains a balanced additives composition used in conjunction with highly refined base oils to produce a product which imparts useful performance characteristics such as high load carrying capacity, good detergency and dispersancy properties, excellent rust and corrosion protection for all engine parts and strong alkalinity reserve to neutralize acids formed by the combustion of distillate & heavy fuels.

Applications:

MOTOROL MARINE oil is specially formulated engine oil used for lubricating medium-speed trunk piston medium-speed diesel engine found on ships, coastal vessel, tugboats as well as land-based stationary power – generation equipment (DG Sets). Also used for lubricating gear transmission, turbo charges, oil lubricated stern tubes and other shipboard machinery.

Advantages:

- ◆ Excellent TBN retention to prevent corrosive wear.
- ◆ Higher piston deposit threshold temperature capability thereby reducing carbon and soot deposits on the piston, crown, land at ring grooves.
- ◆ Excellent engine lubrication leading to reduced oil related problems and longer engine life.
- ◆ Good oxidation stability & water shedding property.

Performance Standard:

Meets API CF

Typical Specifications:

Sr. No.	Characteristics	Test Methods	12/40	20/40	30/40	40/40	50/40
1	Appearance/Colour	Visual	Clear/Red	Clear/Red	Clear/Red	Clear/Red	Clear/Red
2	Kinematic Viscosity at 40 °C cSt	ASTM D 445	110-130	110-130	120-140	130-150	130-150
3	Kinematic Viscosity at 100 °C cSt	ASTM D 445	12.5-15.5	12.5-15.5	13.5-15.5	14.5-16.5	14.5-16.5
4	Flash point °C, Min	ASTM D 92	200	200	210	220	220
5	Pour Point °C, Max	ASTM D 97	-6	-6	-6	-6	-6
6	Total Base No, mg KOH/g	ASTM D 974	12	20	30	40	50

Environment, Health & Safety:

Every care has been taken to ensure the accuracy of the information in this PDS. This however may be affected by subsequent improvement in product (R&D). MSDS is available for all MOTOROL products on request.

MOTOROL products are unlikely to present any health and safety hazard with proper use for the correct application and maintain proper personal hygiene. Do not Spill oils on the shop floor, discharge into drains ,ground or water sources.