



# ATLANTIC MARINOL M

Marine & Stationary Diesel Engine Oil - Medium-Speed

## DESCRIPTION

ATLANTIC MARINOL M are Lower alkaline reserve (12 Base Number) trunk piston engine oil (TPEO) designed for use in medium-speed trunk piston engines burning distillate fuels with sulfur content up to 1.5% in marine or stationary service.

## APPLICATIONS

- Medium-speed trunk piston engines burning distillate fuels in marine main and auxiliary powerplant service.
- Medium-speed trunk piston engines burning distillate fuels in stationary powerplant service.

## PRODUCT BENEFITS

- Engine Protection - Controls cylinder liner wear effectively and helps to protect bearings from corrosion. High performance, antiwear additives provide protection against wear for cams, camshaft and bearings. They also promote a high degree of water tolerance and anti-foam protection.
- Engine Cleanliness - Helps to ensure clean crankcases, piston interiors and lubricating oil lines.
- Easy Purification - Effective water and contaminants handling.
- Smooth Operation - Helps to provide minimum maintenance and downtime, long engine life and economical operating costs.
- Maintains power output - The detergent/dispersant additive system provides control of high temperature deposits in areas such as the undercrown of the piston and the piston ring belt area, enabling piston rings to function efficiently.
- Prolongs oil life - Base Number (BN) level and superior alkalinity retention characteristics maintain adequate BN to ensure corrosive acids formed by the combustion of fuel sulfur are effectively neutralized, thereby minimizing liner wear.
- Efficient purifying system performance - Excellent water separation characteristics enable water to be centrifuged out with essentially no loss of additive

## RECOMMENDATIONS / SPECIFICATIONS

Meets or exceeds the quality requirements of the all major manufacturers for use in their medium-speed engines, including:

- MAN Diesel & Turbo
- Wärtsilä

## TYPICAL TECHNICAL PROPERTIES

PRODUCT CODE:	ML-250901	ML-250902
Product Name	MARINOL M 30012	MARINOL M 40012
SAE Viscosity Grade	30	40
Density at 15°C, g/ml, ASTM D4052	0.913	0.913
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	110	137
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	12	14.0
Viscosity Index, ASTM D2270	100	98
Flash Point(COC), °C, ASTM D92	212	220
Pour Point, °C, ASTM D97	-18	-18
Total Base Number, mg KOH/g, ASTM D2896	12	12
Load Carrying Capacity (FZG) Fail Load Stage, (IP 334)	11	11
Sulphated Ash, wt%, ASTM D874	1.6	1.6
Zinc, wt%, ASTM D5185	0.06	0.06

Note: These characteristics are typical of current production. While future production will conform to Atlantic's specification, variations in these characteristics may occur.

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\* supersedes all previous versions

**Packing:** 200L, 208L, 1000L, BULK