



Trunk piston oil for high speed engines.

APPLICATIONS

Marine oils designed for the lubrication of high speed diesel engines.

Turbocharged and naturally aspirated main and auxiliary engines of all types and all ratings, running on Gas Oil or Marine Diesel Oil.

The product can also be used to lubricate bearings, stern tubes and reduction gears.

FEATURES AND BENEFITS

The **DISOLA M** range of trunk piston engine oils are developed for use in high speed diesel engines utilizing distillate fuels

DISOLA M combines an exclusive formulation of the latest additive technologies, developed by the Total research center.

The product utilizes and highly refined base oils to provide a substantial safety margin able to cope with higher stress levels

SPECIFICATIONS AND APPROVALS

✓	MAN ES (MAN B&W)	✓	Wärtsilä
✓	Hyundai Himsen	✓	Daihatsu
✓	Rolls-Royce	✓	MAK (Caterpillar)

TECHNICAL DATA : DISOLA M 4012

CHARACTERISTICS	METHODS	UNITS	TYPICAL VALUES*
S.A.E. Grade	—	—	40
Density at 15°C	ISO 3675	kg/m ³	900
Kinematic viscosity at 40°C	ISO 3104	mm ² /s	145
Kinematic viscosity at 100°C	ISO 3104	mm ² /s	14.2
Flash Point (COC)	ASTM D 92	°C	> = 230
Pour Point	ISO 3016	°C	- 9
BN	ASTM D 2896	—	12

*The specifications above are for illustrative purposes and communicated for information only.

CUSTOMER BENEFITS

✓	The DISOLA M range exceeds the CF specification defined by the American Petroleum Institute (API).
✓	The ability to reduce heavy deposit build-up in an engine creates savings via a reduction in maintenance costs.
✓	The product offers excellent resistance to the negative effects of fuel contamination, along with excellent thermal resistance and oxidization resistance.
✓	The stable viscosity of DISOLA M range means that in service fewer top-ups are needed.
✓	The product is also very water resistant, with outstanding demulsibility capacity, enabling rapid removal of water after an ingress and the maintenance of good engine performance.

GENERAL RECOMMENDATIONS

COMPATIBILITY

Compatible with **generally available trunk piston lubricants**.

Please consult your Total Marine Lubrication Engineer should you have any questions.

SHELF LIFE

5 years from date of manufacture.

STORAGE

This product should be stored under cover in clean, dry conditions and protected from frost.

Recommended storage temperature range is 5°C to 50°C.

Drums that are stored on deck should be raised on pallets and covered to protect from the elements.

Always check regularly for leakage.

COMPLIMENTARY PRODUCTS AND SERVICES

✓	WT Supra — Innovative and environmentally friendly cooling system inhibitor concentrate.
✓	DiagomarPlus — Laboratory based used oil analysis program.
✓	Tech'Care — Suite of onboard testing kits.
✓	Technical Expertise & Support — Total Lubmarine engineers are on hand at worldwide locations to assist with lubrication concerns.
✓	Lube-On-Ship — Visualize your lube oils needs aboard Total Lubmarine's innovative virtual vessel.

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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in can be obtained via your Total Lubmarine technical advisor or from sdstotalms.total.com

