



# Nautico Diesel Board 4T 15W40

## ■ Description

Multigrade oil specially formulated for modern four-stroke onboard marine diesel engines and water-cooled off-board engines. Its balanced formula complies with the demanding requirements of marine engine manufacturers. It enables operations in leisure vessels under the most severe conditions.

## ■ Properties

- Avoids segment sticking by dispersing mud, varnishes and other high temperature oil oxidation products.
- Contains efficient antirust and anticorrosion inhibitors that protect the engine in the water.
- Good cold-flow which facilitates ignition and reduces engine wear.
- Its selected components endow it with enhanced shearing resistance, maintaining its design viscosity during the life of the oil.
- Excellent lubrication capacity, thus increasing the life of the engine.
- Avoids the appearance of mud, thanks to its dispersing additives. As a result, the engine and component cleanliness is optimal at all times.
- A highly stable alkaline reserve (TBN) gives great capacity to neutralise the acids formed in combustion.

## ■ Quality level

- API CI-4/CH-4/SL
- ACEA E7/E5
- MAN 3275
- VOLVO VDS-3
- CUMMINS 20076/20077/20078

## ■ Technical Characteristics

	UNIT	METHOD	VALUE
SAE Grade			15W40
Density at 15°C	g/cm <sup>3</sup>	ASTM D 4052	0.880
Viscosity at 100°C	cSt	ASTM D 445	14.5
Viscosity at 40°C	cSt	ASTM D 445	107
Viscosity at -20°C	cP	ASTM D 5293	7000 maximum
Viscosity rate	-	ASTM D 2270	140
Flash point, open cup	°C	ASTM D 92	215 minimum
Pour point	°C	ASTM D 97	-27
T. B. N.	mg KOH/g	ASTM D 2896	10
Bosch Injector Shearing: Viscosity at 100°C after shear	cSt	CEC L014 93	12.5 minimum
Noack volatility, 1hr at 250°C	% in weight	CEC L 040 93	12 maximum

## ■ Hazard Identification

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This product is not classified as toxic or hazardous under current legislation.

## ■ Handling

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Minimum precautions should be taken to avoid prolonged contact with the skin. The use of gloves, visors or glasses is recommended to avoid splashes.

## ■ Health and safety hazards

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**Inhalation:** Given that it is not a particularly volatile product, the risk of inhalation is minimal.

**Ingestion:** Do not induce vomiting. Supply water. Seek medical advice.

**Contact with the skin:** Wash thoroughly with soap and water.

**Eyes:** Wash thoroughly with water.

**General measures:** Seek medical advice.

## ■ Fire-extinguishing measures

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No special measures required.

Fire-extinguishing measures: Foams, dry chemicals, CO<sub>2</sub>, water spray. Do not apply the jet of water directly as this could cause the product to disperse.

## ■ Environmental precautions

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Risk of physical contamination when spilled (waterways, coastal areas, soils, etc.) due to its floatability and oily consistency; could cause harm to flora and fauna on contact. Avoid material getting into water outlets.

Decontamination and cleaning: Treat as an accidental oil spillage. Prevent dispersion using mechanical barriers and remove by physical or chemical means.

A safety information file is available on request.

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Unless otherwise indicated, the figures cited in technical characteristics should be considered typical.