

TECHNICAL DATA SHEET

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PERFORMANCE LEVEL

NATO O-278
API CF

PACK SIZES

55-Gallon (208 L) drum
IBC container

PRODUCT FAMILY

IBROMA Marine Engine Oils
High-Performance Grease & Oils

MANUFACTURED BY

IBROMA LUBRICATION LTD

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MARINE ENGINE OIL O-278-N

MARINE 9000

Heavy-duty diesel engine oil for severe service conditions

DESCRIPTION

A high-performance engine oil designed for four-stroke diesel engines operating under severe heavy-duty conditions in marine and industrial service.

APPLICATION

Four-stroke diesel engines operating under severe heavy-duty conditions.

COST-SAVING BENEFITS

- **Lower operational costs** — extended oil life thanks to outstanding viscosity control combined with excellent base-number retention over long periods
- **Engine cleanliness** — clean-engine technology that minimises deposit and sludge build-up throughout the engine
- **Enhanced technology** — outstanding-quality base oils and additive technology for excellent oxidation and thermal stability over prolonged periods

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	TYPICAL
Kinematic viscosity at 100 °C	ASTM D445	mm ² /s	13.4
Viscosity index	ASTM D2270	-	> 90
Density at 15 °C	ASTM D1298	g/ml	0.893
Flash point, PMC	ASTM D93	°C	> 210
Pour point	ASTM D97	°C	< -14
Total Base Number (TBN)	ASTM D2896	mg KOH/g	12
FZG gear test, A/8.3/90, FLS	DIN 51354	-	12

Typical values shown do not constitute a specification. The information is based on current knowledge and is intended to describe the product for possible applications; it does not release the user from performing preliminary tests.