

## MARINE OIL 40/13

### Marine Diesel Engine Oils with High TBN Values

#### DESCRIPTION AND APPLICATION

High-performance marine diesel engine oils formulated with advanced base oils and state-of-the-art additives. They are used for the lubrication of high and medium-speed trunk piston marine diesel engines. Can be used as crankcase oil in trunk piston engines and as cylinder oil in crosshead-type engines.

#### FEATURES AND BENEFITS

- Forms a strong film layer against extreme pressure.
- Prevents acid formation with its high TBN value, providing excellent protection and extending the service life of engine oil for economic benefits.
- The detergent-dispersant properties of its additives prevent sludge and deposit formation, keeping the engine clean.
- Protects against rust and does not foam.
- Contains foam-preventing additives for more effective lubrication.

#### HEALTH, SAFETY, AND ENVIRONMENTAL RECOMMENDATIONS

Lubran motor oil should not come into contact with skin or eyes, should not be ingested, and its vapors should not be inhaled. In case of contact with skin or eyes, wash with plenty of soapy water and seek medical attention if necessary. If ingested, do not induce vomiting and seek emergency medical help. If vapors are inhaled, take deep breaths and seek medical assistance if needed. Used Lubran motor oils should not be disposed of in the trash, sewer, or environment; they should be collected in waste oil containers in accordance with local regulations and delivered to authorized recycling centers. It should not be mixed with any petroleum products or chemicals. It should not be burned in stoves or boilers. Store in places out of reach of children. Empty containers should not be disposed of in the trash or left in the environment; they should be delivered to licensed recycling organizations. For detailed information, please refer to the "Material Safety Data Sheet."

#### STORAGE CONDITIONS

Lubran motor oil packaging should not be exposed to prolonged direct sunlight. The packaging should not come into contact with water. The oils should not come into contact with dust and should be kept away from dusty environments. The ambient temperature should not exceed 40°C. The proper use of this product and compliance with applicable laws and regulations are entirely the responsibility of the user. Lubran cannot be held responsible for any damage or loss arising from the abnormal or improper use of the product or any hazards and consequences related to the product's composition.

#### TYPICAL FEATURES

PHYSICAL PROPERTIES	METHOD	MARINE OIL 40/13
Density, g/cm <sup>3</sup> at 15°C	ASTM D 4052	0,875
Kinematic Viscosity, cSt at 40°C	ASTM D 445	12,5-16,3
Viscosity Index min.	ASTM D 2270	95
Pour Point, °C, max.	ASTM D 97	-18
Flash Point, °C, min.	ASTM D 92	230
Total Base Number (TBN), mgKOH/g	ASTM D 2896	12,2-14,2

#### PACKAGING TYPES



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