

## UNITED UNIMAR TBN 50

United Unimar TBN 50 marine lubricant is specially formulated engine oil for lubricating medium-speed trunk piston medium-speed diesel engines found on ships, coastal vessels, tugboats as well as land-based stationary power-generation equipment. United Unimar TBN 50 lubricant is suitable for use in engines burning residual fuels with a fuel sulfur content exceed 3.5% sulfur.

United Unimar TBN 50 lubricant contains a balanced additive composition used in conjunction with highly refined base oils to produce a product which imparts useful performance characteristics such as high load carrying capacity, good detergency and dispersancy properties, excellent rust and corrosion protection for all engine parts and strong alkalinity reserve to neutralize acids formed from the combustion of distillate fuels.

United Unimar TBN 50 is compatible with all medium-speed trunk-piston engine marine lubricants sold in the market and can be used for lubricating gear transmissions, turbo-chargers, oil lubricated stern tubes and other shipboard machinery.

### APPLICATIONS / BENEFITS

- Good oxidation stability and water shedding properties.
- Good load bearing capacity.
- Rust and oxidation protection.
- Strong acid neutralizing properties.
- Compatible with other competitive lubricants.

### TYPICAL CHARACTERISTICS

TEST DESCRIPTION	METHOD	TYPICAL RESULTS
UNIMAR		450
SAE Viscosity Grade	SAE J 300	40
Specific Gravity @ 15 °C	ASTM D 4052	0.918
Flash Point, °C	ASTM D 92	245
Pour Point, °C	ASTM D 97	-9
Kinematic Viscosity @40°C	ASTM D 445	148
@100°C	ASTM D 445	14.9
Viscosity Index	ASTM D 2270	100
TBN, (mgKOH/g)	ASTM D 2896	50
Color	ASTM D 1500	<6.0