

## UNIMAR TBN 12

**PRODUCT DESCRIPTION**

UNIMAR TBN 12 lubricant is specially formulated engine oil for lubricating medium-speed and high-speed auxiliary shipboard machineries on board ships. UNIMAR TBN 12 is specifically suitable for lubricating gear transmissions, turbo chargers as well as oil lubricated stern tubes.

UNIMAR TBN 12 lubricant contains 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.

UNIMAR TBN 12 is compatible with all major auxiliary engine marine lubricants and can be used for all stationary shipboard auxiliary equipment.

**APPLICATIONS / BENEFITS**

- ❑ High load carrying capacity.
- ❑ Rust and oxidation protection.
- ❑ Strong acid neutralizing properties.
- ❑ Compatible with other competitive lubricants.

**TYPICAL CHARACTERISTICS**

TEST DESCRIPTION	METHOD	TYPICAL RESULTS		
		312	412	512
SAE Grade	UNIMAR SAE J 300	30	40	50
Specific Gravity @ 15°C	ASTM D-4052	0.896	0.902	0.904
Flash Point, °C	ASTM D-92	232	248	254
Pour Point, °C	ASTM D-97	- 9	- 9	- 9
Kinematics Viscosity @ 40°C (cSt)	ASTM D-445	110.1	149.7	204.7
@ 100°C (cSt)	ASTM D-445	12.06	14.82	18.0
Viscosity Index	ASTM D-2270	98	98	96
TBN (mgKOH/g)	ASTM D-2896	12	12	12
Colour	ASTM D-1500	< 4.5	< 4.5	< 4.5

## PERFORMANCE STANDARDS

- API CF/CD