



## Technical Data Sheet

- Reliable Protection
- Industrial Applications

# UPSOL MARINE MT 330, 430

## TBN 30

Marine Engine Oil

## SAE 30, 40

UPSOL MARINE Series are formulated from HVI (High Viscosity Index) base oil with a well-balanced additive package which was specially designed for diesel engine lubricant. UPSOL MARINE Series have sufficient TBN to neutralize combustion acid; provides optimum protection against rust, corrosion & excessive wear; has a good balance between oxidation stability, detergency and dispersancy to prevent piston deposit formation and maintain engine cleanliness; and also, able to easily separate from dirt and water at the centrifugal separator. Additionally, it contains anti-foam additive to prevent foaming.

TYPICAL CHARACTERISTICS			
PROPERTIES	METHOD	MT 330	MT 430
SAE Viscosity Grade		30	40
Density at 15°C, kg/l	ASTM D - 4052	0.8994	0.9032
Kinematic Viscosity at 40°C, cSt	ASTM D - 445	107.00	152.60
100°C, cSt		11.83	14.94
Viscosity Index	ASTM D - 2270	98	97
Flash Point, °C	ASTM D - 92	240	248
Pour Point, °C	ASTM D - 5950	-18	-18
Total Base Number, mg KOH/g	ASTM D - 2896	30	30

## APPLICATIONS

UPSOL MARINE MT Series are recommended for lubrication of highly rated medium speed industrial and marine diesel engines using residual diesel fuel with sulphur content up to 1% wt.

## PERFORMANCE LEVELS

UPSOL MARINE MT Series meet performance level of API CF. UPSOL MARINE MT Series is approved by Wartsila for Wartsila Vasa 22/26/32, Wartsila 20/26/32/38/46/64 and Sulzer Z40/ZA40/ZA40S.

