



## Marine Engine Oil - 12 TBN & 15 TBN

TPED Marine Engine oil are a blend of superior quality high viscosity index paraffinic base stock with balanced additive package. They have TBN value of 12 & 15 and are recommended for crank case and cylinder lubrication of trunk piston type naturally aspirated or turbo charged medium speed marine and stationery diesel engines. Burning heavy fuel up to 1.0% with sulfur content under severe operating conditions.

### Main Benefits

- Excellent anti-wear properties.
- Reduces ring & linear wear.
- Excellent detergent dispersant properties to reduce deposits formation and keeps the engine clean.
- Prevents scuffing and scoring of engine parts.
- Excellent anti-corrosion properties.

### Applications

TPED Marine Engine Oil can be used for crank case and cylinder lubrication of Truck piston type naturally aspirated or turbo charged medium speed marine and stationery diesel engines.

### Specifications

TPED Marine Engine Oil meets API service classification of API CD, MAN ES (MAN B & W), Yanmar & Daihatsu Engines besides Wartsila (WinGD).

### Typical Physical Characteristics

Grade	312	412	512	315	415	515
SAE Viscosity Grades	30	40	50	30	40	50
Viscosity, cSt @ 40°C	110	150	220	110	150	220
Viscosity, cSt @ 100°C	12	15	19	12	15	19
Viscosity Index	98	99	97	98	99	97
Pour Point	-24	-21	-15	-24	-21	-18
Flash Point COC °C	230	240	250	228	238	248
TBN mg KOH/gm	12	12	12	15	15	15

Color Varies from Country to Country. Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. Advice and opinion noted herein are given in good faith and on the basis of the best information available, information is based on past history of the grade only and must not be construed as a guarantee of performance nor any legal liability is accepted by United Grease or any of its affiliates. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available with your nearest United Grease office or at [www.unitedgrease.com](http://www.unitedgrease.com). © United Grease and Lubricants Co LLC, 2022