



TECHNICAL DATA

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590 MARINE TPEO 30TBN SAE 40 595 MARINE TPEO 15TBN SAE 40

Marine TPEO meets the performance requirements of medium to high speed 4-Stroke 'Trunk Piston' diesel engine oils utilizing Ultra Low Sulfur Diesel. These engines operate under severe conditions which requires better corrosion resistance, detergency, oxidation resistance and thermal stability.

Marine TPEO is specially formulated to provide the following performance benefits:

- Excellent load carrying and anti-wear protection
- Reduced liner and ring wear
- Scuffing protection

- Advanced detergency and dispersancy technology
- Enhanced alkalinity (BN) retention
- Controls sludge and varnish

- Oxidation resistance and thermal stability
- Corrosion and rust control
- Good filterability and water shedding

Further blended into Marine TPEO are two proven frictional modifiers, Micron Moly®, a liquid soluble type of moly, and Schaeffer Mfg.'s own proprietary additive Penetro®. Once plated, these frictional modifiers form a long lasting, slippery, tenacious lubricant film, which prevents metal-to-metal contact and damaging frictional wear which results in:

- A low coefficient of friction
- Significantly less bearing, ring, piston, cylinder and valve-train wear

Marine TPEO can be used in the following applications:

- Medium to High speed 4-Stroke trunk piston diesel engines
- Certain marine and stationary diesel engine applications

TYPICAL PROPERTIES

Total Base Number (TBN) (ASTM D2896), mm KOH/g	15	30
SAE Grade	40	40
Viscosity (ASTM D445), cSt @ 40°C	135-155	135-155
Viscosity (ASTM D445), cSt @ 100°C	13.5-16.0	13.5-16.0
Viscosity Index (ASTM D2270)	97	97
Flash Point (ASTM D92), °F(°C)	470°/243°	470°/243°
Pour Point (ASTM D5949), °F(°C)	20°/-7°	20°/-7°
Sulfated Ash (ASTM D874), wt%	2.1	3.8