



# Finnexx Tarrus Oils

## Trunk Piston Engine Oil 1000

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### **PRODUCT DESCRIPTION**

Finnexx Tarrus TPEO 1000 are Medium-speed trunk piston engine oils (TPEO) developed for marine propulsion and stationary power generation engines, burning distillate fuels. The viscosity grades SAE 30 and 40 cover applications in marine main and auxiliary engine service in addition to land based powerplant operations.

### **CUSTOMER BENEFITS**

- **Maintains power output**  
The detergent/dispersant additive system provides control of high temperature deposits in areas such as the undercrown of the piston and the piston ring belt area, enabling piston rings to function efficiently.
- **Prolongs oil life**  
Base Number (BN) level and superior alkalinity retention characteristics maintain sufficiently high BN under all service conditions to ensure corrosive acids formed by the combustion of fuel sulphur are effectively neutralized, thereby minimizing liner wear.
- **Efficient purifying system performance**  
Excellent water separation characteristics enable water to be centrifuged out with essentially no loss of additive..

### **APPLICATIONS**

- Medium-speed trunk piston engines burning distillate fuels in marine main and auxiliary powerplant service.
- Medium-speed trunk piston engines burning distillate fuels in stationary powerplant service.
- It is suitable for use in marine reduction gearboxes where engine oils of its type and viscosity are recommended. It should not be mixed with EP type gear oils which are sometimes used in the same application.
- It is also suitable for use in stern tube systems where engine oils of its type and viscosity grade are recommended. It should not be mixed with compounded type oils which are sometimes used in the same application.

### **PERFORMANCE**

Recommended for major OEMs for use in their medium-speed engines, including:

MAN Diesel  
Wärtsilä  
Caterpillar



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### SERVICE CONSIDERATION

#### Base Number (BN) Selection

Finnex Tarrus TPEO 1000 is a 16 Base Number product and for all Trunk piston engine oils BN selection must be matched to the properties of the fuel and to the severity of the application. Use of an oil with a BN lower than required can result in rapid corrosive wear. Excessively high BN lubricants, relative to fuel sulphur content, can result in ash deposit accumulation on exhaust valves and result in possible valve distress. Finnex Tarrus TPEO 1000 is normally recommended for use with Fuel Sulphur Level up to 1.8%.

#### Engine Application

Finnex Tarrus TPEO 1000 is not recommended for use as a cylinder lubricant or system oil in marine two-stroke crosshead engines, burning high Sulphur marine bunker fuel

### TYPICAL TEST DATA

Characteristic	Test methods	SAE 30	SAE 40
Kinematic viscosity at 40°C, mm <sup>2</sup> /s	ASTM D445	96.0	137.0
Kinematic viscosity at 100°C, mm <sup>2</sup> /s	ASTM D445	11.0	14.0
Viscosity Index	ASTM D2270	99	98
Density at 20°C, kg/l	ASTM D4052	0.880	0.896
Base Number, mg KOH/g	ASTM D2896	16	16
	ASTM 4739	16	16
Zinc Content, wt%	XRAY	0.06	0.06
Sulphated Ash	ASTM D874	1.9	1.9
FZG Fail Load Stage	DIN 51354	11	11
Flash Point °C	ASTM D92	204	222

Values are typical of production but will be subject to variation.

**Health & Safety Note** – Always maintain good levels of personal hygiene when handling mineral oils. Wear protective clothing/gloves. Wash hands and skin areas where contact has occurred and avoid ingestion. See applicable Material Safety data Sheet for further information.