

# Product Data Sheet

## SERVO MARINE 3030- 4050

Marine Trunk Piston Engine Oil



### Description

Servo Marine 3030, 3040, 3050, 4030, 4040 & 4050 oils are developed to meet the requirement of modern medium-speed trunk piston engines used in Marine propulsion and Land based DG sets operating on high sulfur residual fuels.

The superior performance of these oils has been demonstrated in several laboratory screening tests, standard and in-house engine tests. They have shown excellent merit rating for piston cleanliness in the MWM KD 12E engine test run in accordance with CEC-L-12-A-76 using residual fuel.

### Performance, Features and Benefits

- Excellent detergency and engine cleaning ability
- Ensures outstanding Piston and Liner cleanliness
- Provides higher level of TBN retention
- Provides reduced Ring and Liner wear
- Separates easily from water

### Application

Servo Marine oils are recommended for use in Marine propulsion engines and land based DG sets operating on residual fuels.

### Specifications, Approvals & Recommendations

#### Servo Marine series oils meet –

- Meets American Petroleum Institute service classification API CF
- Passes MWM-B engine test for high temperature deposit control

#### Servo Marine oils are approved by

- Wartsila NSD, Finland for Vasa 22, 22/26 and Vasa 32 & 32 LN engines
- Rolls Royce, UK
- MAN B & W (Holeby) Engines

### Typical Physical Characteristics

Properties	Method	3030	3040	3050	4030	4040	4050
Appearance	Visual	Clear	Clear	Clear	Clear	Clear	Clear
Kinematic viscosity at 100°C, cSt	ASTM D445	10.5	13.6	19.5	10.4	13.7	19.3
Viscosity Index	ASTM D2270	108	102	99	106	103	98
Pour Point, °C	ASTM D97	-18	-21	-18	-21	-21	-18
Flash point COC, °C	ASTM D92	242	238	244	240	238	244
Total Base Number, mg KOH/g	ASTM D2896	34.3	33.9	34.1	44.3	44.1	44.2

### Health, Safety & Environment

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or at <https://cx.indianoil.in/>. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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