

Masters Marina 7050 Oil

Premium cylinder oil for low-speed diesel engines

Masters Marina 7050 Oil is a premium grade cylinder lubricant for use in all types of low speed crosshead diesel engines burning residual fuels with sulphur contents of up to 3.5% weight.

It is ideally suited for the new generation of highly rated, fuel efficient, low-speed marine diesel engines operating with higher pressures, higher temperatures and longer strokes.

It is a blend of highly refined, high viscosity index base oils, and additives that incorporate unique alkyl salicylate technology developed by Masters Research.

Applications

- Low-speed marine diesel engines burning heavy fuel with a relatively high sulphur content of between 1.0 to 3.5% weight.
- Slow speed marine diesel engine cylinders

Performance Features

- **Unique alkyl salicylate additive technology**
Imparts outstanding acid neutralising properties to counter corrosive wear resulting from the use of high sulphur fuels
- **Minimum deposit formation**
On cylinder ports, pistons, piston rings, ring grooves and under piston spaces
- **Low cylinder and piston ring wear**
Cylinder wear rates below 0.05 mm per 1000 hours are commonly experienced
- **Excellent engine cleanliness**
Extended interval between maintenance schedules - Periods between piston overhauls of up to two years are not unusual
- **Storage stability**
Completely stable in storage under all the widely varying conditions encountered aboard ship
- **Sight-glass fluid compatibility**
Compatible with all normal lubricator sight glass fluids

Performance Specifications

Masters Marina 7050 Oil meets the requirement of major manufacturers of slow-speed crosshead diesel engines

Oil Feed Rates

Insufficient cylinder oil feed rates can lead to corrosive wear, seized and broken rings and consequent blow-by and scavenge fire risks, and to the formation of excessive and tenacious deposits.

To obtain optimum performance with Masters Marina 7050 Oil it is important to:

- Observe the engine manufacturers' recommended cylinder oil feed rates as the minimum.
- Consider using higher rates, especially when running in new liners and/or rings
- Equally distribute the oil between injection quills
- Ensure the lubricator drive system is well maintained and properly adjusted
- Clean and overhaul lubricator boxes according to engine manufacturers' recommendations

Seal Compatibility

Masters Marina 7050 Oil is compatible with all normal oil seal materials.

Advice

Advice on applications not covered in this leaflet may be obtained from the Lubricants

Department, Alsa Petrochemical Plant, KM 36,
Lagos Ibadan Express way, beside fagbems
filling station, Mowe, Ogun state.

[Tel:+234-8063876663](tel:+234-8063876663)

Typical Physical Characteristics

Masters Marina 7050 Oil	50
SAE Viscosity Grade	50
Kinematic Viscosity @ 40°C cSt 100°C cSt (IP 71)	227.0 17.0
Viscosity Index (IP 226)	>100
Density @ 15°C kg/l (IP 365)	0.945
Flash Point °C (Pensky-Martens Closed Cup) (IP 34)	
Flash Point °C (Cleveland Open Cup) (IP 36)	260
Pour Point °C (IP 15)	-15
TBN-E mg KOH/g (IP 276)	70
Sulphated Ash % wt (IP 163)	8.50

These characteristics are typical of current production. Whilst future production will conform to Masters Specification, variations in these characteristics may occur.

Health & Safety

Masters Marina 7050 Oil is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

For further guidance on Product Health & Safety refer to the appropriate Masters Product Safety Data Sheet.

Protect the environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.