

Marine lubricants.

## Gavia 4050



Product developed for the lubrication of two-stroke diesel marine engine cylinders that use VLSFO (Very Low Sulfur Fuel Oil) with low sulfur content (>0.1%, up to 0.5%).

### Use

- The Gavia 4050 product has been formulated with first-refined paraffinic base oils and state-of-the-art additives, providing the product with a reserve alkalinity (TBN) adapted to new fuels in accordance with the IMO 2020 standards, offering significant liner anti-wear protection and excellent cleanliness properties for the piston casing and rings. In addition, it provides optimum control of deposits thanks to its excellent thermal stability and oxidation.
- Thanks to its specific formulation, Gavia 4050 can be used with lower-sulfur fuels (ECA zones) according to the manufacturer's recommendations.

### Benefits

- Excellent detergent/dispersant properties providing optimum cleanliness of piston casing and rings, critical areas for operation with distillate fuels.
- Excellent thermal and oxidation stability promoting a reduction in deposits on the piston rings.
- Maintains an optimal lubrication film under different load conditions, protecting the engine from wear on the liner and piston rings.
- Protects against corrosion and wear associated with the use of low-sulfur fuels.

### Specifications

- MAN Energy Solutions Cat. I
- WIN GD

### Physical and chemical properties

Parameter	Units	Method	Gavia 4050
<b>SAE Grade</b>	-	-	<b>50</b>
Density 15°C	kg/l	D-4052	0.938
Flash point COC	°C	D-92	>220
Pour point	°C	D-97	-27
Viscosity at 40 °C	cSt	D-445	227
Viscosity at 100° C	cSt	D-445	20.00
Viscosity Index	-	D-2270	100
Base Number, (min)	mg KOH/g	D-2896	40

### Health & safety and environment

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product as per applicable legislation.

The typical values of the characteristics appearing in the table are average values given for guidance purposes only and do not constitute a guarantee. These values may be modified without any prior warning.