

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
SAE Grade	-	-	50
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.