

Marine lubricants.

## Larus 4040



Product developed for lubrication of the sump of medium-speed four-stroke diesel marine engines using residual fuels with a high sulfur content (>1.5% sulfur).

### > Use

- The Larus 4040 product has been formulated with first-refined paraffin bases and high-quality additives, which provide protection against black sludge. The initial value of the base number (TBN) of this lubricant oil is designed be a good acid neutralizer and maintain effective residual alkalinity in service.
- According to the manufacturer's recommendations, it is possible to use it in Dual Fuel engines. The product is compatible with the use of scrubbers.

### > Benefits

- Excellent alkaline reserve and BN retention.
- It makes the lubricant highly compatible with the residual fuel.
- Easy water separation.
- Excellent detergents properties.
- Excellent cleaning of the camshaft, sump and refrigeration area of the piston.
- Drastic reduction of deposits in piston rings.
- Because of its high thermal stability, it extends the useful life of the lubricant.
- It reduces operating and maintenance costs.

### > Specifications

- MAN B&W Diesel
- WÄRTSILÄ
- MWM Energy- Deutz

### > Physical and chemical properties

Parameter	Units	Method	Larus 4040
SAE Grade	-	-	40
Density 15°C	kg/l	D-4052	0.915
Flash point COC	°C	D-92	>230
Pour point	°C	D-97	-27
Viscosity at 40 °C	cSt	D-445	140
Viscosity at 100° C	cSt	D-445	14.5
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.