

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
<b>SAE Grade</b>	-	-	<b>40</b>
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.

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.