

Marine lubricants.

## Larus 2040



Product developed for lubrication of the sump of medium-speed four-stroke diesel marine engines using residual fuels with a low sulfur content (<0.5%).

### Use

- The Larus 2040 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 these oils is designed to be a good acid neutralizer and maintain effective residual alkalinity in service. Depending on engine conditions, it may also be suitable for fuels with sulfur content between 0.1 and 0.5% for limited periods of time and under the manufacturer's recommendation. The product is compatible with Scrubbers type exhaust gas systems.
- The product is compatible with ULSFO (Ultra Low Sulfur Fuel Oil, 0.1%S) and VLSFO (Very Low Sulfur Fuel Oil, 0.5%S) fuels, as per the manufacturer's recommendation. It can be used in DF (dual fuel) mode with LNG (liquefied natural gas), according to the manufacturer's recommendation.

### Benefits

- Excellent alkaline reserve and BN retention.
- It makes the lubricant highly compatible with the residual fuel.
- Easy water separation.
- Excellent detergent 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

### Physical and chemical properties

Parameter	Units	Method	Larus 2040
<b>SAE Grade</b>	-	-	<b>40</b>
Density 15°C	kg/l	D-4052	0.905
Flash point COC	°C	D-92	>230
Pour point	°C	D-97	-9
Viscosity at 40 °C	cSt	D-445	143.8
Viscosity at 100° C	cSt	D-445	14.5
Viscosity Index	-	D-2270	100
Base Number, (min)	mg KOH/g	D-2896	20

### 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.