



## PRODUCT DESCRIPTION

**LENOL CLX 20, CLX 40 and CL 40** are marine cylinder lubricants for all low-speed marine two-stroke diesel engines running on distillate and ultra-low Sulphur fuel oils.

## APPLICATIONS

**LENOL CLX 20, CLX 40 and CL 40** are marine cylinder lubricants for low and ultra-low Sulphur distillate fuels as well as ultra-low Sulphur fuel oils. The total alkaline content of the cylinder lubricant has to match the Sulphur content of the fuel and it might be necessary to adjust feed rate accordingly. When running at low feed rate or in ultra-low steaming mode, it is essential that the liner and piston ring conditions are inspected on a regular basis. Please refer to the latest OEM recommendations on feed rates, which may vary depending on lubricator technology.

**LENOL CLX 40** is a MAN Cat. II cylinder oil recommended for MAN B&W two-stroke engines Mark 9 and higher, and suitable for very low (<0.5%S) and ultra-low (<0.1%S) Sulphur distillate fuels as well as LNG, ethane, methanol and LPG.

**LENOL CL 40** is a MAN Cat. I cylinder oil suitable for very low (<0.5%S) and ultra-low (<0.1%S) Sulphur distillate fuels as well as heavy fuel oil up to 1.5% Sulphur content.

**LENOL CLX 20** is suitable for low Sulphur distillate fuels, all ultra-low Sulphur fuel oils as well as LNG, ethane, methanol and LPG.

## ADVANTAGES

- Outstanding thermal and oxidation stability and excellent detergency
  - Excellent deposit control
  - Leads to clean engine parts
  - Allows operation at optimized feed rates
- Excellent anti-wear properties
  - Prevents scuffing
  - Reduces liner and ring wear
  - Allows extended time between overhauls
- Formulations approved by major engine manufacturers

## TECHNICAL DATA

Grade Name	Pour point °C	Flash point (COC) °C, min	Viscosity at 100°C cSt	SAE	Base number mgKOH/g
<b>LENOL CLX 40</b>	-6	230	20	50	40
<b>LENOL CL 40</b>	-6	230	19.5	50	40
<b>LENOL CLX 20</b>	-6	230	18.5	50	20

## HANDLING AND PACKAGING

Compatibility and miscibility with comparable products from other suppliers have been successfully tested by an independent institute, but to benefit from full product performance, the mixing of lubricants should be avoided.

## HEALTH AND SAFETY

The information on this product is available in the Material Safety Data Sheet (MSDS) as a guide to the precautions and safe handling of this product and its disposal. The product is not classified as dangerous according to the Regulation 1272/2008 or the Directives D67/548/EEC and 1999/45/EC. When used as intended, this product does not pose significant health risks.

Last Updated: August 2022

This data sheet and the information given are considered to be accurate to the best of our knowledge. The physical and chemical characteristics are typical values and compliant to specification. Variations in these characteristics may occur. No warranty expressed or implied, is given as to the accuracy or completeness of the information or suitability of the products. LENOL shall not be responsible for any damage or injury resulting from abnormal use of the product. The user will be always responsible to evaluate and use products safely and to comply with all applicable laws and regulations.