

## **TECHNICAL CIRCULAR**

**01/2023**

**Date: 13<sup>th</sup> Jan 2023**

### **SUBJECT: Use of Silicon for Main Engine / Auxiliary Engine Overhauling**



One of our fleet vessels faced issues with Jacket cooling water high temperature for one unit of Main Engine.

The Cooling Water Temperature was higher as compared with other units of the Engine. When this unit was opened for overhaul, it was observed that the Cooling Water spaces were clogged with silicon, thereby restricting the flow of water, resulting in higher temperature.

During the previous overhaul, ship staff had installed all the O-rings of Cylinder Head and Exhaust valve, by using excessive Silicon sealant. This excessive sealant had found its way through the Cooling water passage, thereby clogging the Cooling water openings, and resulting in the restriction to Cooling water flow.

This resulted in ship staff spending extra time in cleaning and premature overhaul.

This incident resulted in operational restrictions and loss of time, manpower and spares, which could have resulted in Serious Breakdown.

All the fleet vessels are advised to use Maker recommended lubricants for O rings, like Lithium base grease/Silicon grease /Swarfega hand cleaner during any Engine overhaul (Main Engines/Aux engine) to avoid similar incidents in future.

**MTMPL - TECHNICAL TEAM**