

AFT STERN TUBE BEARING REBABBITTING & MACHINING

STERN TUBE BEARING REMETALLING

During a special dry-docking, the owners of the Charles Eddie, a 305,178 DWT crude oil tanker, found white metal material squeezed from the aft stern tube bearing. Recognizing the severity of the issue and the requirement for a highly specialized repair, the customer contacted Goltens to provide alignment checks and rebabbitting of the 790mm diameter x 1,710mm stern tube.

Goltens, a pioneer in the field developing proprietary centrifugal casting machinery to meet the highest tolerances and quickly repair and recondition bearings, responded immediately to address the vessel's pressing schedule.

WORK SCOPE CONSISTED OF:

- Performed laser alignment check of the shaft line onboard the vessel;
- Incoming inspection of AFT stern tube bearing in the workshop;
- Removal of white metal from bearing shell;
- Rebabbitting the AFT stern tube bearing;
- Finish machining white metal bearing surface to final diameter according to specification at workshop;
- Measuring the final size and complete inspection by UT and dye checking at workshop (witnessed by LR Class surveyor and ship owner);
- Laser alignment check of stern tube bearing when reinstalled onboard the vessel

RESULTS:

Goltens workshop completed the rebabbitting service within 5 days including coordinating with shipyard and Class society in order to meet the vessel's urgent schedule.

PROJECT FACTS:

M/V Charles Eddie

Tonnage:

305,178 DWT

Main Engine:

MAN B&W 7S80MC

Output:

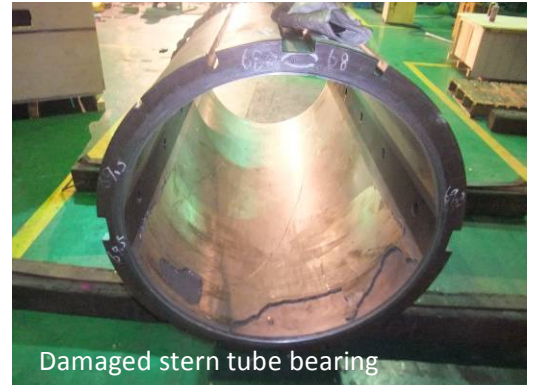
Mcr: 25,485KW

Bearing Diameter:

Ø790.00mm

Bearing Length:

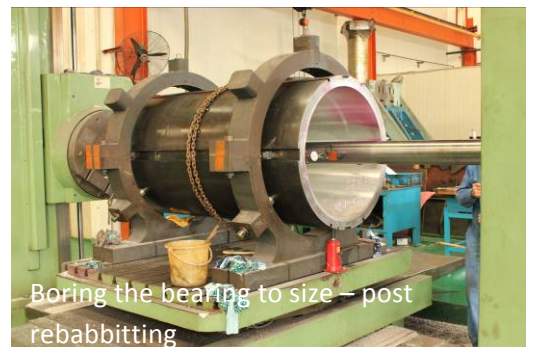
1,710.00mm



Damaged stern tube bearing



Centrifugal casting of stern tube bearing



Boring the bearing to size – post rebabbitting



Fully inspected stern tube bearing ready for installation onboard the vessel