

Pump bearing housing repair in situ

ID: 9355

Industry: Marine
Application: CEP-Centrifugal Pumps
Substrate: Carbon steel
Products: Belzona 1121 (Super XL-Metal), Belzona 9411 (Release Agent)

Customer Location: Ontario
Application Date: July 2017

Problem

Upon removal of the top casing, the pump was inspected. It was determined that the bush seating was suffering from corrosion and wear and needed to be rebuilt.



Outside look at the vessel



Damaged bearing housing



Belzona 1121 applied with formers in place



Look at the bearing housing once the former was removed

Application Situation

The problem was that the base of the pump was mounted under the floor in the vertical position and could not be removed. The bearing housing of the pump had to be repaired in-situ.

Application Method

A light weight former was pre-fabricated, which was coated with Belzona 9411 (Release agent) to allow for easier disassembly once the rebuilding material has cured. The damaged area was manually ground and cleaned prior to the application of there building material. Belzona 1121 (Super XL-Metal) was used as the rebuilding material. The product was mixed and applied over the damaged area and then the former was pressed against the product to achieve the desired dimensions. The former was removed after the product was fully cured.

Belzona Facts

The customer was unable to find a solution from any of their regular service trades, machine shops or marine repair facilities. None of them offered a solution that could be done in-situ without dismantling the pump. The customer had used Belzona in the past for

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ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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different repairs, so they decided to contact Belzona Great Lakes for assistance.

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