

BELZONA REPAIR TO FERRY'S PROPULSION SYSTEM

ID: 3159



PROBLEM

Erosion-corrosion on the face and bore of the casing, due to sea water corrosion and erosion from entrained sand. If allowed to continue the casing could be perforated leading to oil leakage.

APPLICATION SITUATION

Voith Schneider propulsion unit of a ferry.

APPLICATION METHOD

Application was carried out in accordance with Belzona Know-How System Leaflets SOS-1 and SOS-2. Pitted areas were rebuilt with Belzona® 1311 before receiving 2 coats Belzona® 1341 for overall erosion-corrosion protection.

BELZONA FACTS

Previously, this client had experienced erosion-corrosion on another of their units. This unit had been welded, incurring major problems of distortion. The Belzona alternative solution, which was completed in two days, avoided any risk of distortion. Replacement of the whole casing would have been a very expensive option. The client was so pleased with the Belzona option he commissioned a similar application on another Voith casing in 2009, which has also been successful.

INDUSTRY

Marine

LOCATION

Ferry operator, Scotland

APPLICATION DATE

February 2007

PRODUCTS

Belzona 1311 (Ceramic R-Metal)
Belzona 1341 (Supermetalgilde)

SUBSTRATE

Mild steel

PHOTOS

1. Close view of the erosion-corrosion problem
2. Eroded areas rebuilt with Belzona 1311
3. Application of a final blue coat of Belzona 1341 to protect the casing against further erosion-corrosion problems
4. 2009 application - Belzona 1341 applied on the casing

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

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