

# BELZONA REPAIR TO FERRY'S PROPULSION SYSTEM

ID: 3159

Industry: *Marine*  
 Application: *SOS-Ships and Offshore Structures*

Customer Location: *Ferry operator, Scotland*  
 Application Date: *February 2007*

Substrate: *Mild steel*  
 Products: *\* Belzona® 1311 (Ceramic R-Metal) ,*  
*\* Belzona® 1341 (Supermetalgilde) ,*

## 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.*



## Photograph Descriptions

- \* Close view of the erosion-corrosion problem ,
- \* Eroded areas rebuilt with Belzona® 1311 ,
- \* Application of a final blue coat of Belzona® 1341 to protect the casing against further erosion-corrosion problems ,
- \* 2009 application - Belzona® 1341 applied on the casing ,

## 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

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

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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.

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