

BELZONA PROTECTS PROPULSION UNIT ON FERRY

ID: 1436

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

Customer Location: *Ferry, Ontario, Canada*
Application Date: *February, 2010*

Substrate: *Mild Steel*
Products: ** Belzona® 1311 (Ceramic R Metal) ,*
** Belzona® 2141 (ACR Fluid Elastomer) ,*

Problem

Erosion had worn through nozzle. Welding considered but high risk of distortion and expensive.



Photograph Descriptions

- * Rolls Royce drive unit on Ferry ,
- * Nozzle of drive showing corrosion and erosion from cavitation ,
- * Inner surface grit blasted and erosion damage built up using Belzona® 1311 ,
- * Application of Belzona® 2141 completed ,

Application Situation

Nozzle of drive unit eroded due to cavitation.

Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets SOS-1 & 2. After grit blasting, Belzona® 1311 was used to replace eroded metal. Belzona® 2141 system was then applied to the nozzle extending the application over both the leading and trailing edges to give maximum protection.

Belzona Facts

Welding was an option but cost would have been \$5500 and the distortion would have been a problem. Total cost using Belzona system was less than \$3800 with no risk of distortion. In addition unit protected from future erosion corrosion.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

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

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