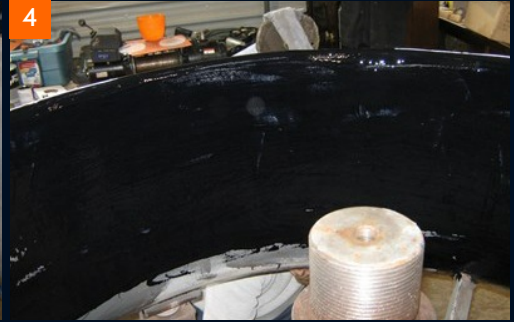


BELZONA PROTECTS PROPULSION UNIT ON FERRY

ID: 1436



PROBLEM

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

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.

INDUSTRY

Marine

LOCATION

Ferry, Ontario, Canada

APPLICATION DATE

February, 2010

PRODUCTS

Belzona 1311 (Ceramic R Metal)

Belzona 2141 (ACR Fluid Elastomer)

SUBSTRATE

Mild Steel

PHOTOS

1. Rolls Royce drive unit on Ferry
2. Nozzle of drive showing corrosion and erosion from cavitation
3. Inner surface grit blasted and erosion damage built up using Belzona 1311
4. Application of Belzona 2141 completed

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

Belzona products are manufactured under an ISO 9001 Registered Quality Management System.

www.belzona.com

