

Belzona Repairs Voith Schneider Unit

ID: 7722

Industry: Marine
Application: SOS-Ships and Offshore Structures

Customer Location: Gourock, Scotland
Application Date: April 2018

Substrate: Cast steel
Products: * Belzona 1311 (Ceramic R Metal) ,
* Belzona 1321 (Ceramic S Metal) ,

Problem

Erosion/corrosion damage meant the unit no longer functioned correctly. Replacement of the unit would total around £120,000



Photograph Descriptions

- * 1. Voith unit in blast booth ,
- * 2. Close up of metal loss ,
- * 3. Sealing face built up ,
- * 4. Machining of product ,

Application Situation

A Voith Schneider propulsion unit was experiencing erosion/corrosion from sand/silt & sea water in service.

Application Method

The face of the unit was first grit blasted to SA2.5 & 75 microns. The face of the casing was then built up with Belzona 1311 before being overcoated with Belzona 1321. The inner bore was a sealing face, it was built up with Belzona 1311 & then machined down to a close tolerance.

Belzona Facts

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FS 695214
ISO 14001:2015
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Belzona products are
manufactured under an ISO
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Replacement would have taken weeks & cost around 15 times the repair. By utilizing this solution the customer saved time, money & the equipment will now have better erosion/corrosion resistance than when purchased new!

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