

## BELZONA REPAIRS VOITH SCHNEIDER UNIT

### CUSTOMER

Gourock, Scotland

### APPLICATION DATE

April 2018

### APPLICATION SITUATION

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

### PROBLEM

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

### PRODUCTS

Belzona 1311 (Ceramic R Metal)

Belzona 1321 (Ceramic S Metal)

### SUBSTRATE

Cast steel

### 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

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!

### PICTURES

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



1.



2.



3.



4.

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



ISO 9001:2008  
Q 09335  
ISO 14001:2004  
EMS 509612

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