

## BELZONA REPAIRS VOITH SCHNEIDER PROPULSION UNIT

### CUSTOMER

Ferry, Gourrock, UK

### APPLICATION DATE

September 2014

### APPLICATION SITUATION

A Voith Schneider unit from a passenger ferry.

### PROBLEM

The combination of sea water and erosion from silt and sand was creating an erosion-corrosion cycle. Extensive metal loss had been noticed on the face of the equipment and on the inner rims.

### PRODUCTS

Belzona 1311 (Ceramic R Metal)

Belzona 1321 (Ceramic S Metal)

### SUBSTRATE

Steel

### APPLICATION METHOD

The application was carried out in accordance with Belzona System Leaflets SOS-1 & 2. The unit was grit blasted and salt tested. The inner rim was then built up using a pre-fabricated metal former. The face was also built back up using Belzona 1311. Belzona 1321 was then applied to coat & protect the unit from future erosion/corrosion.

### BELZONA FACTS

Replacement of the unit would have been more than £100K. Welding and then machining would have been very difficult due to the size and geometry of the piece. The Supply and fit repair was carried out on the customer's site for £3,000.

### PICTURES

1. Voith unit before work started
2. The damage on the inner rim
3. Belzona 1311 applied & former in place
4. Former removed, rim rebuilt and face coated with Belzona 1321



1.



2.



3.



4.

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



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