

BELZONA REPAIRS RUDDER HOUSING

ID: 7461



PROBLEM

The normal repair method would involve shrink fitting the bush back into place. The erosion/corrosion on the housing & bush was too severe for this method to be used.

APPLICATION SITUATION

Passenger ferry in dry dock. A becker rudder pintle bush had become loose due to galvanic corrosion. The bush had slipped down the rudder pin & had begun to wear on the housing itself.

APPLICATION METHOD

The application was carried out in accordance with Belzona System Leaflet SOS-9. The bush was machined to give a 5mm clearance. The housing was grit blasted and Belzona 1111 applied to the two parts, then the bush was pressed into position. Care had to be taken to ensure the correct alignment of the piece.

BELZONA FACTS

The Belzona solution avoided the hotwork involved with the original solution, as well as ensuring a speedy return to service. Belzona 1111 ensures the original issue of galvanic corrosion will not reoccur, extending the service life.

INDUSTRY

Marine

LOCATION

Drydock, Greenock, Scotland

APPLICATION DATE

March 2017

PRODUCTS

Belzona 1111 (Supermetal)

SUBSTRATE

Bronze/steel

PHOTOS

- 1- Area to be repaired
- 2- Bush showing large amounts of wear
- 3- Housing before grit blasting
- 4- Bush bonded in & aligned

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