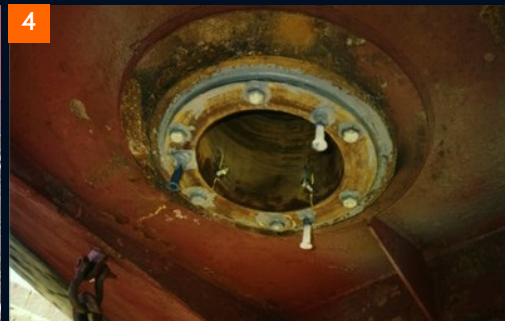
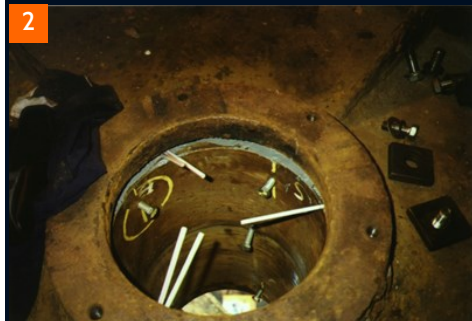


BELZONA BONDS SPADE RUDDER BEARING ON COASTER

ID: 4157



PROBLEM

Significant Galvanic Corrosion - from 3 to 7mm had occurred, causing the bronze bush to be unsupported. This was a spade rudder and the forces on the bearing were great.

APPLICATION SITUATION

Spade rudder bearing on coastal ship.

APPLICATION METHOD

Application was carried out in accordance with Belzona System Leaflet SOS-9. The top of the bearing was sealed using the Belzona® 1221, and, due to the overhang over the top of the bearing, capillaries were set in to ensure good venting during the injection process.

BELZONA FACTS

All works were carried out within one day and witnessed by the Lloyds Register Surveyor. 12 kg of Belzona® 1321 was required to secure the bearing into position, providing a 100% contact between the bearing and the housing, and compressive load bearing capability significantly above the 10N/mm² required.

INDUSTRY

Marine

LOCATION

Scotland, UK

APPLICATION DATE

September 2002

PRODUCTS

Belzona 1221 (super E Metal) Belzona 1321 (Ceramic S Metal)

SUBSTRATE

Steel and Bronze

PHOTOS

1. Vessel prepared for works in drydock
2. Top of bearing sealed using Belzona 1221
3. Injection of Belzona 1321 into the space
4. Completed works. The injection plugs are removed at the same time as the rudder is assembled.

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.

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