

CAVITATION DAMAGE TO THIS TANKER PROPELLER REPAIRED WITH BELZONA

ID: 338



PROBLEM

The large difference in pressure on the edges of this bronze propeller caused cavitation bubbles that in turn damaged the metal substrate after imploding onto the surface.

APPLICATION SITUATION

Cavitation damage to a 12-foot diameter tanker propeller.

APPLICATION METHOD

The application was carried out in accordance with Belzona Know-How System Leaflet SOS-2.

BELZONA FACTS

Any polymeric coating that is subject to cavitation will be sacrificial, however it is a lot more cost effective than welding and remachining. It is very time consuming to braze bronze and requires skill to rebuild significant metal loss.

INDUSTRY

Marine

LOCATION

Oil tanker in Argentina, South America

APPLICATION DATE

April 1997

PRODUCTS

Belzona 1321 (Ceramic S-Metal)
Belzona 1311 (Ceramic R-Metal)

SUBSTRATE

Bronze

PHOTOS

1. Aft view of the tanker
2. Surface preparation of the bronze propeller
3. Close up view of grinding profile
4. Finished application

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