# CAVITATION DAMAGE TO THIS TANKER PROPELLER REPAIRED WITH BELZONA

# ID: 338

Customer Location: Oil tanker in Argentina, South America

Application Date: April 1997

Industry:	Marine
Application:	SOS-Ships and Offshore Structures
Substrate: Products:	Bronze * Belzona® 1321 (Ceramic S-Metal) , * Belzona® 1311 (Ceramic R-Metal) ,

#### 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.



### **Photograph Descriptions**

- \* Aft view of the tanker ,
- \* Surface preparation of the bronze propeller ,
- \* Close up view of grinding profile ,
- \* Finished application,

#### **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 sacraficial, how-ever 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.

For more examples of Belzona Know - How In Action, please visit https://khia.belzona.com

ISO 9001:2015 FS 695214 ISO 14001:2015 EMS 695213

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