Know-How *in Action*

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# CAVITATION DAMAGE TO THIS TANKER PROPELLER REPAIRED WITH BELZONA

**CUSTOMER**
Oil tanker in Argentina, South America

**APPLICATION DATE**
April 1997

**APPLICATION SITUATION**
Cavitation damage to a 12-foot diameter tanker propeller.

**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.

**PRODUCTS**
Belzona® 1321 (Ceramic S-Metal)
Belzona® 1311 (Ceramic R-Metal)

**SUBSTRATE**
Bronze

**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.

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

1.



2.


3.


4.




ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

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