

# Belzona Repairs Cavitation Damage to the Bulk Carrier Propeller Blades

ID: 8587

Industry: Marine  
Application: SOS-Ships and Offshore Structures

Customer Location: Shanghai, China  
Application Date: August, 2021

Substrate: Brass  
Products: \* Belzona 1311 (Ceramic R Metal) ,  
\* Belzona 1321 (Ceramic S Metal) ,

## Problem

Propellers on bulk carrier had severe cavitation damage on all four blades of propellers.



## Photograph Descriptions

- \* 1. Surface preparation with sandblasting ,
- \* 2. Rebuilding metal loss with Belzona 1311 ,
- \* 3. Cavitation prevention with Belzona 1321 ,
- \* 4. Complete application ,

## Application Situation

Propeller blades

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet SOS-1 and SOS-2.

## Belzona Facts

Any polymeric repair solution that is subject to cavitation will be a lot more cost effective than welding and remachining. It is time consuming to braze bronze and requires higher skills to rebuild significant metal loss. Belzona systems were accepted by DNV Classification Society.

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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manufactured under an ISO  
9000 Registered Quality  
Management System.

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