

## BELZONA SUPER METAL RESTORES STRUTS ON A DREDGING VESSEL

**CUSTOMER**  
Oregon, USA

**APPLICATION DATE**  
January 2018

**APPLICATION SITUATION**  
Struts supporting propulsion system and housing cutlass bearings on 200 foot dredging vessel.

**PROBLEM**  
The internals of all 4 struts had suffered erosion and corrosion from seawater and needed to be restored.

**PRODUCTS**  
Belzona 1111 (Super Metal)

**SUBSTRATE**  
Steel

**APPLICATION METHOD**  
The application was carried out in accordance with SOS-9 Belzona Know-How System Leaflet. The substrate was machined down via boring to achieve a clean, solid substrate free of any corrosion. Substrate was then blasted with an angular grit to give a minimum surface profile of 3 mils. Substrate was then power washed with HoldTight 102 to bring salt contamination to acceptable levels. Belzona 1111 was then mixed and applied to build up the surface proud and then once cured, machined back to tolerance.

**BELZONA FACTS**  
The alternative to this repair would be a massive amount of welding. Welding would also introduce the possibility of Galvanic corrosion. The customer chose the Belzona solution to save time and money and to prolong the repair of their asset. Belzona 1111 will not corrode in seawater.

- PICTURES**
1. 2 of 4 struts that needed restoration
  2. A clean, solid, roughened substrate
  3. Surface built up with Belzona 1111
  4. Completed application ready for cutlass bearings



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