

BELZONA SAVES TUG BOAT COMPANY \$200,000+

ID: 5354

Industry: *Marine*
Application: *SOS-Ships and Offshore Structures*

Customer Location: *VA, USA*
Application Date: *August 2014*

Substrate: *Cast Steel*
Products: ** Belzona 1311 (Ceramic R-Metal) ,*

Problem

While in dry dock, it was found that the lower half of the port and starboard Kort nozzle drive assemblies had severe erosion on the propeller side of the housing.



Photograph Descriptions

- * Eroded housing ,
- * Belzona 1311 applied and the former installed ,
- * Repair completed ,
- * The Port and Starboard Kort nozzles and drive assemblies shown while the tug is in dry dock ,

Application Situation

Tug boat in dry dock for routine repairs.

Application Method

The housings were blasted to a near white metal and were checked for chlorides. Plywood formers were made to ensure the original shape of the housings were restored. A release agent was applied to the formers. A generous amount of Belzona 1311 was applied to the housing. The formers were immediately installed and the excess of Belzona 1311 was faired smooth, even with the former, and tapering to the housing.

Belzona Facts

To weld the eroded housing would require complete removal and disassembly of each Kort nozzle and drive assembly at a cost of about \$100,000+ per drive assembly. The Belzona solution does not require welding. It is an economical, fast, and effective repair.

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

Belzona products are
manufactured under an ISO
9000 Registered Quality
Management System.

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Also, while using Belzona 1311 to complete the repair, the owner was able to widen the diameter of the housing a half inch so that it has a more hydrodynamic water flow around hub of the propeller.

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