

BELZONA PRESERVES 60-YEAR-OLD WATER PUMP FOR IRRIGATION DISTRICT

ID: 6037

Industry:

Application: CEP-Centrifugal Pumps

Substrate: Cast Iron

Products: * Belzona 1111 (Super Metal) ,
* Belzona 1121 (Super XL-Metal) ,
* Belzona 1341 (Supermetalgilde) ,

Customer Location: Arkansas, USA

Application Date: May 2015

Problem

Flanges on the split line, wear ring fits, and packing areas were severely corroded, preventing the pump from sealing and made it very inefficient.



Photograph Descriptions

- * Severe corrosion in body of the pump ,
- * Close up of screws installed ,
- * Screws installed in split line and wear rings ,
- * Completed application to pump case ,

Application Situation

The case and fits of a 60-year-old pump.

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ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

Belzona products are
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9000 Registered Quality
Management System.

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Application Method

The application was carried out in accordance with modified versions of Belzona Know-How System Leaflets CEP-3 and CEP-5. Because of the severe erosion/corrosion damage of the wear ring fits and split line, 2"+ thickness of Belzona 1111 was needed. Because of this, self tapping screws/bolts were installed to provide stability to Belzona 1111. After 1111 was installed, all fits were machined. Belzona 1341 was coated on all wetted surfaces.

Belzona Facts

The pump was approximately 60 years old. Lead time for replacement was 14 months. Welding was not an option because the substrate was cast iron. Pump needed to be back in service in a very short amount of time. No alternatives were available on such a short notice.

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