

BELZONA SAVES THE BULL GEAR

ID: 5924

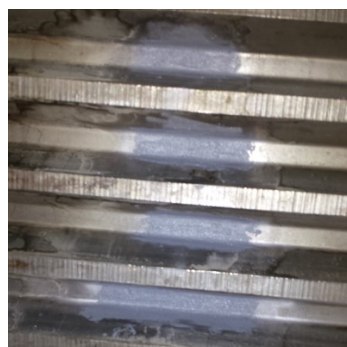
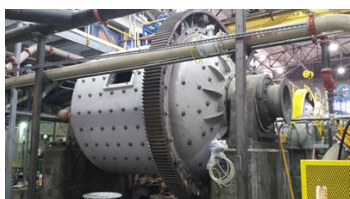
Industry: *Mining & Quarrying*
Application: *MPT-Mechanical Power Transmission*

Customer Location: *N.E. Washington, USA*
Application Date: *November 2014*

Substrate: *Steel*
Products: ** Belzona 1111 (Super Metal) ,*
** Belzona 1321 (Ceramic S-Metal) ,*

Problem

The gears on this Ball Mill bull gear were experiencing erosion and pitting.



Photograph Descriptions

- * 1 of 5 Ball Mills. ,
- * Erosion damage cleaned and grit blasted. ,
- * Application of Belzona 1111. ,
- * Application of Belzona 1321. ,

Application Situation

Ore processing Ball Mill bull gear.

Application Method

The application area was thoroughly cleaned with solvent and then grit blasted to prepare the surface. All erosion damage was filled in with Belzona 1111 and followed with a brush on coating of Belzona 1321 to protect against further damage.

Belzona Facts

If unchecked, the erosion damage could have weakened the bull gear, forcing the need to replace it. There are a total of 5 of these gears with damage and they were manufactured in the 1960's. The replacement cost is estimated at \$150,000.00 USD each and

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FS 695214
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roughly 3 months to have them made. This Belzona repair was handled in a couple days by one person and used less than \$150.00 USD in material.

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