

# BELZONA SAVES THE BULL GEAR

ID: 5924

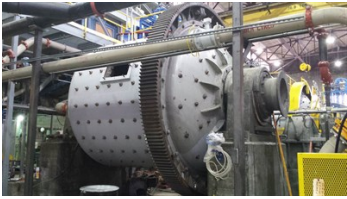
Industry: *Mining & Quarrying*  
Application: *MPT-Mechanical Power Transmission*

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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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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