

# BELZONA REPAIRS TRUNNION BALL MILL IN SITU

ID: 4892

Industry: Mining & Quarrying

Customer Location: Mine, MA, Brazil

Application: MPT-Mechanical Power Transmission

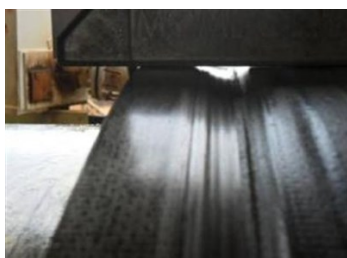
Application Date: February, 2011

Substrate: Carbon Steel

Products: \* Belzona 1131 (Bearing Metal) Belzona 1311 (Ceramic R-Metal) Belzona 1321 (Ceramic S-Metal) ,

## Problem

Wear on the trunnion's sealing edge due to ore's abrasion between the rubber ring and the edge. In addition, localized wear on the trunnion's seating area of the socket was present. Trunnion's diameter: 1.200 mm. Operation is at room temperature.



## Photograph Descriptions

\* Wear on the trunnion's sealing edge Application of Belzona 1131 on the trunnion Application of Belzona 1311 on the trunnion's edge Trunnion's edge coated with Belzona 1321 ,

## Application Situation

Sliding bearing area of the ball mill's trunnion

## Application Method

After removal of oil and residual grease, the surfaces were prepared with electrical sander. The sealing edge was recovered with the application of Belzona 1311 and coated with Belzona 1321 to achieve a polished finishing resistant to abrasion. The seating area of the socket, was repaired with the application of Belzona 1131 (Bearing Metal) to rebuild thickness loss where there is metal to metal contact. The application and finishing were performed manually.

## Belzona Facts

Belzona technology offered the following advantages: quick return to service, elimination of hot work with electrical welding and low cost.

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FS 695214  
ISO 14001:2015  
EMS 695213

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