

# Mine Locomotive Axle Repair

ID: 2457

Industry: *Mining & Quarrying*  
Application: *MPT-Mechanical Power Transmission*  
Substrate: *Steel*  
Products: *Belzona® 1311 (Ceramic R-Metal)*

Customer Location: *Brown coal mine plant, Slovakia*  
Application Date: *2005*

## Problem

*Failure of the shaft*



## Photograph Descriptions

1. Mine locomotive
2. Failure bearing
3. Repair in progress
4. Renovated axle

## Application Situation

Due the slide assembly wear of shaft axle in bronze bearing the shaft unloading appeared. Direct mark of this failure is big noise level.

## Application Method

Application was carried out in accordance with Instructions for use. Shaft was turned down and left with coarse thread before being rebuilt with Belzona® 1311 followed by machining back to original diameter.

## Belzona Facts

First repair in 2005 was done, still working. From that year had been several of these repairs completed.

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ISO 9001:2015  
Q.09335  
ISO 14001:2015  
EMS 509612

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