

# BELZONA REPAIRS AND PROTECTS TAPERED SHAFT

ID: 5345

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

Customer Location: *Kettle Falls, WA, USA*  
Application Date: *1984*

Substrate: *Steel*  
Products: *\* Belzona 1111 (Super Metal) ,*  
*\* Belzona 9411 (Release Agent) ,*

## Problem

*The tapered final drive shaft keyway was worn oversize and the shaft was worn down.*



## Photograph Descriptions

- \* Tapered drive shaft showing wear on the keyway ,
- \* Shaft and keyway prepared and Belzona 1111 applied ,
- \* New tapered hub in place centering the key ,
- \* Bull dozer partially disassembled ,

## Application Situation

Bull dozer final drive shaft.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet MPT-4. The keyway and tapered shaft was ground to roughen the surface. Belzona 9411 was applied to the new key and the new hub. Belzona 1111 was applied and the hub was mounted in place to center the key. The excess of Belzona 1111 was removed. After the cure, the machine was reassembled.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

Belzona products are  
manufactured under an ISO  
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Belzona Facts

Replacing the shaft would require complete disassembly. A new shaft was not available.

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