

# STRIPPED THREADS QUICKLY REPAIRED WITH BELZONA

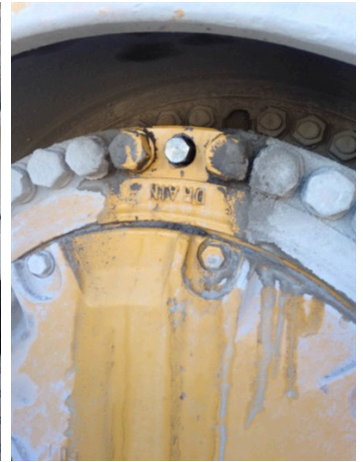
ID: 5928

Industry: *Mining & Quarrying*  
Application: *ENC-Engines and Casings*  
Substrate: *Steel*  
Products: *\* Belzona 1212 ,*  
*\* Belzona 9411 (Release Agent) ,*

Customer Location: *Nashville, TN, USA*  
Application Date: *September 2015*

## Problem

*The oil plug on a Caterpillar 990 Final Drive, had been stripped when someone used an impact wrench instead of hand tightening the bolt. The customer was faced with downtime of the equipment and expensive new parts.*



## Photograph Descriptions

- \* Cat 990 with leaking oil evident ,
- \* Bolt cavity prepared for application ,
- \* Applying Belzona 1212 to threads on bolt and bolt cavity ,
- \* Completed application, bolt snugged down and waiting to go back into service ,

## Application Situation

Stripped threads on a Caterpillar 990 Final Drive were leaking oil.

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet ENC-2. The new bolt/oil plug was coated with Belzona 9411 and allowed to dry for 30 minutes. While the bolt was drying, the bolt cavity was cleaned using a round wire brush and cleaner/degreaser. Since grinding would have damaged the threads, Belzona 1212 was selected for its surface tolerant properties. The threads of the new bolt/oil plug and bolt cavity were then wetted out and the bolt was tightened into place by hand

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FS 695214  
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with a wrench rather than an impact tool. The application was performed at the end of the day, which allowed the equipment to go back into service the next morning with no downtime for the quarry.

## Belzona Facts

The alternative was replacing the hub which was over \$9,000.00. In addition to the new parts, it would take two mechanics at least one day with a crane to disassemble and reassemble the equipment. The Belzona solution cost less than \$200 and saved the company two days of labor and at least a day of downtime on a much needed piece of equipment. The cost of materials and labor alone was over \$9,500.00.

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