

## BELZONA BACKHOE BUSH HOUSING REPAIR

### CUSTOMER

Midwestern US

### APPLICATION DATE

1989

### APPLICATION SITUATION

Backhoe Bush Housings

### PROBLEM

The bush housings, where the boom attaches to the machine, were worn till they were oversized that it was difficult to properly control the boom when digging. Also, it was the busy construction season and the owner needed the machine back as soon as possible. The machine shop where it was taken for repair suggested they try a procedure using Belzona 1111, which had recently been introduced to the machine shop owner.

### PRODUCTS

Belzona 1111 (SuperMetal)

Belzona 9411 Release Agent

### SUBSTRATE

Steel

### APPLICATION METHOD

Application was carried out in accordance with Belzona Know-How System Leaflet MPT-07. The worn housings were degreased, ground to produce a rough profile and degreased again. Release Agent was applied to the OD of new bushings and allowed to dry. Belzona 1111 was mixed and applied to both the prepared housings and onto the new bushings, on top of the release agent. The bushings were inserted into the housings and a steel rod, exactly the size of the bushing ID, was run through both bushings to provide alignment. The repair was allowed to cure overnight. Next morning the machine was reassembled, the owner picked it up and it was digging later that day.

### BELZONA FACTS

The owner was delighted that the backhoe was only out of service one day, as opposed to two or more for welding and line-boring, as this shop had done for him in the past. The cost of the Belzona repair was a fraction of the welding approach and the machine required minimal disassembly. This repair was followed for over 5 years with no problems. During that time, the boom was cracked when it hit a low underpass while the machine was being transported. The Belzona 1111 repair remained intact. (see photo #3)

### PICTURES

1. Preparation of the worn housings by grinding
2. New bushings grouted in and alignment rod in place
3. The cracked boom which resulted from hitting an underpass



1.



2.



3.

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

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