

# BELZONA REPAIRS DAMAGED GEAR BOX

ID: 569

Industry: Oil & Gas  
Application: ENC-Engines and Casings  
Substrate: Aluminium alloy  
Products: \* Belzona® 1111(Super Metal) ,  
\* Belzona® 9341(Reinforcement Tape) ,

Customer Location: Petrochemical facility, Egypt  
Application Date: October 2003

## Problem

The gear box was badly cracked and fractured.



## Photograph Descriptions

- \* Fractured gear box ,
- \* Stabilizing the long cracks of the gear box ,
- \* Using metal strips to reinforce the crack ,
- \* Repair completed after applying Belzona® 1111 to the cracked surface ,

## Application Situation

Service vehicle gear box

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet ENC-1 and ENC-3a. The original dimensions were restored then Belzona® 1111 was used in conjunction with Belzona® 9341 to complete the repair, finally bearing housing was bored to its dimensions.

## Belzona Facts

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  
9000 Registered Quality  
Management System.

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**BELZONA®**  
Repair • Protect • Improve

The gear box had many long deep cracks which were dangerous to be welded due to heat distortion and the high ability to fail again. Belzona repair was completed quickly, safely, without heat, and at a moderate price.

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