

BELZONA REPAIRS CRACKED GEARBOX

ID: 4219

Industry: *Mining & Quarrying*
Application: *ENC-Engines and Casings*
Substrate: *Cast steel*
Products: ** Belzona® 1111 (Super Metal) ,*

Customer Location: *Quarry, Cambridge, UK*
Application Date: *October 2012*

Problem

The workshop tried to repair this crack by welding it but when the weld cooled down the crack reopened and also created more cracks in the gearbox casing. Quarry contacted Belzona for an alternative solution.



Photograph Descriptions

* Cracks in gearbox marked in red Gearbox prepared by workshop Belzona® 1111 being applied Completed repair with gearbox repainted and fitted to engine 2 days later ,

Application Situation

Gearbox from CAT 966G loader was dropped from crane during routine maintenance causing large crack.

Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet ENC-1. After drilling and tapping ends of all cracks to "blind" them steel straps were bolted across the vee'd out cracks before sealing with Belzona® 1111 incorporating Belzona® 9341 (Reinforcement Tape). Finally the repair was smoothed and painted.

Belzona Facts

Repairing the cracks by welding had failed and the cost of new gearbox casing was £7,000 with weeks /months of delay. Approx £200 of Belzona products were used therefore saving the quarry approx £6,800 and the repaired gearbox was back in service within 4 days

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

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