

Bearing housing repair with Belzona 1111

ID: 9769

Industry: Steel & Metal Processing

Customer Location: Slovakia

Application: MPT-Mechanical Power Transmission

Application Date: February 2025

Substrate: Carbon steel

Products: Belzona 1111 (Super Metal)

Problem

The customer has very good experience with bearing repairs using Belzona 1111 and mobile machining. He uses this service regularly, without complaints. He also had a damaged bearing housing on his gearbox.



Gearbox with damaged bearing



Treatment of damaged surface prior to application of Belzona 1111



Surface machining after application of Belzona 1111



Bearing after repair ready for reassembly

Application Situation

After prolonged operation, the bearing housing began to vibrate and lost its prescribed geometry. If it were to continue operating, there was a risk of damage to the entire gearbox.

Application Method

The gearbox bearing housing was bored using a mobile boring machine with a VHU boring head. The hole was undercut both in front of and behind the central lubrication groove, which served as a reference plane for centering. The undercut was done using a forged thread cutter. The housing was degreased. Belzona 1111 was then applied. After curing, the Belzona was machined to the final dimension with +0.01.

Belzona Facts

Boring the gearbox bearing housing with a mobile boring machine and using Belzona 1111 resulted in a fast and extremely precise repair, preventing damage to the entire equipment in a short time.

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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