

BELZONA REBUILDS STERN TUBE BEARING SUPPORTS IN MINIMUM TIME

ID: 129



PROBLEM

Erosion caused the bearings to become loose. This caused the shaft alignment to be lost, which imposed damaging loads on the shafts, bearings, reduction gearing and controllable pitch propeller systems.

APPLICATION SITUATION

300 ton stern casting containing the bearings supporting the 36" diameter shafts

APPLICATION METHOD

Application was carried out in accordance with Belzona Know-How Leaflets SOS-9 and MPT-6. Belzona® 1111 was applied at an average thickness of ½" (12.5mm). When cured, the stern tube lands were bored to the desired step dimensions.

BELZONA FACTS

Application was completed in six working days. There was no practical alternative as other methods would have required between 15-60 days and docking time was strictly limited. The estimated savings to the customer were between \$100,000 and \$450,000.

INDUSTRY

Marine

LOCATION

U.S. Coast Guard Ice Breaker, Seattle

APPLICATION DATE

July 1995

PRODUCTS

Belzona 1111 (Super Metal)
Belzona 1321 (Ceramic S- Metal)

SUBSTRATE

High strength steel alloy (HY80)

PHOTOS

1. It takes a stalwart crew to mix 300kg of Belzona 1111 in only a few hours
2. Great care was taken to ensure the substrate was correctly prepared prior to the application of Belzona products
3. Application of Belzona 1111 to rebuild the bearing retaining lands

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