

## BELZONA RE-SEATS BEARING ON RUDDER SHAFT

### CUSTOMER

Nova Scotia, Canada

### APPLICATION DATE

Sep-21

### APPLICATION SITUATION

Damaged rudder shaft

### PROBLEM

Rudder shaft was worn under the bearing requiring repairs to the shaft for full bearing contact.

### PRODUCTS

Belzona 1121 Super XL-Metal and Belzona 9411 Release Agent

### SUBSTRATE

Steel

### APPLICATION METHOD

The new bearing was used as a former using the slip method following a modified version of Belzona Know How repair leaflet SOS-9. Two coats of Belzona 9411 release agent were applied on the inside of the new shaft bearing and allowed to fully dry. Shaft was prepared using power tools to remove all corrosion deposits and loose substrate. Belzona 1121 Super XL-Metal was mixed and applied by brush onto the shaft and the inside of the bearing. Additional Belzona 1121 was troweled onto the shaft and bearing. Bearing was lowered onto the shaft, excess Belzona 1121 was removed, and the repair was allowed to cure for 24 hours. The bearing was removed to inspect that there was at least 80% contact between the shaft and bearing.

### BELZONA FACTS

This container ship was docked at a foreign port and was not approved for travel until the shaft was repaired. Belzona 1121 was recommended and approved by the marine surveyor as a suitable repair because of the product's ABS approval. Dry-docking would have disabled the vessel for months. The application was completed in 3 hours by the local Belzona distributor.

### PICTURES

1. Damaged shaft after preparation.
2. Belzona 1121 applied onto the shaft and bearing.
3. Bearing lowered into position for curing.
4. Bearing removed and Belzona 1121 inspected.



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