BELZONA CRUISE SHIP CENTIFUGAL PUMP

CUSTOMER

Italian Cruise Ship in a Southern California Shipyard, U.S.A.

APPLICATION DATE

December, 1996

APPLICATION SITUATION

Main circulating water centrifugal pump

PROBLEM

Severe erosion/corrosion damage, evidenced by more than a dozen small holes, and one large hole completely through the casing as well as a loss of up to two inches of the cutwater. The wear ring seats were also eroded in the same area.

PRODUCTS

Belzona® 1311 (Ceramic R-Metal) Belzona® 9411 (Release Agent)

SUBSTRATE

Bronze

APPLICATION METHOD

Application was carried out in accordance with modified versions of Belzona Know-How System Leaflets CEP-1, CEP-2, and CEP-6.

BELZONA FACTS

The ship was in process of being sold and without this quick repair (completed over a weekend), the multi-million dollar sale would have been cancelled. Replacement costs were approximately \$10,000, with extensive downtime.

PICTURES

- The pump casing and cutwater after blasting and fitting with expanded metal mesh. Note the hole at the center of the cutwater.
- 2. Belzona® 1311 being pressed through the mesh and into the surface profile of the bronze.
- 3. The finished application. Repaired cutwater edge and casing holes. The seal area and rebuilt seating groove is on the right.







For more examples of Belzona Know-How In Action, please visit http://khia.belzona.com



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