

Customer Container Ship Operator, France
Sector Marine
Date August 2011
Ref no. 20003

APPLICATION EXAMPLE

Pump casing rebuild & coating

Situation

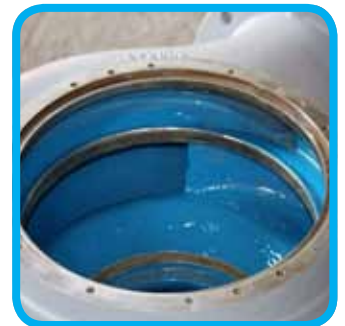
This fire water pump from a large container ship was due for its overhaul, and during its previous inspection it had been noted that there was evidence of erosion to the pump internals.

Mark Specialist Applications were contacted to collect the pump fully assembled from the quayside, arrange to dismantle it, carry out inspections, install where required new mechanical seals, V-seals, bearings etc. Following the completion of the above, the pump was rebuilt with ceramic repair paste and two coats of ceramic repair fluid.



Implication

The fire water pump is an essential part of the ships fire fighting equipment and has to be 100% available and ready to work in the event of a fire. Without this pump working correctly the ship or a spare in its place the vessel would not have been certified to sail.



Solution

The pump casing was blasted to SA2.5 and a ceramic filled epoxy used to fill the areas with cavitation. A solvent free ceramic repair fluid was then applied which has good abrasion and impact resistance. The casing then received a final coat of ceramic repair fluid to ensure a seamless smooth flow.



Facts

The project was undertaken in conjunction with our "Partner Contractor" – Pumptec Engineering Services Ltd. The pump was delivered back to the customer in Dunkerque meeting the strict deadlines as laid out within the contract.

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