

Customer Fast Ferry Operator, London
Sector Marine
Date May 2012
Ref no. 20055

APPLICATION EXAMPLE

Repairs to jet tube liners

Situation

The aluminium jet tube liners had become badly scored and pitted due to high water volume and debris passing through at high speed. A fine tolerance is allowed between the impellers and liners to maintain efficiency which had been lost leading to decreased speed and loss of efficiency.

Implication

The cost of running the engines is a substantial part of the overall operating costs and as the liners wear the engines are required to work harder to maintain speed. This is a substantial extra cost to the operator.

Solution

The liners and impellers were collected from Kent and brought back to our facility in North Wales. The liners were blast cleaned to the required standards with a non-metallic blast media, and rebuilt using a Resimac ceramic filled epoxy paste and left to cure. Once the epoxy paste had cured the rebuilt area was mechanically and hand dressed, each impeller was test fitted for size before a protective ceramic repair fluid was applied to give extra protection against abrasion.

Facts

The ships owners wanted to ensure that their fleet was ready for the Olympics and each vessel needed to be working to capacity for this period. Each fast ferry jet tube liner was brought back to spec so the maximum efficiency could be obtained from the engines which saved a considerable amount of money.

