

Rebuild of Bow Thruster Casing

Application: Refurbishment of Bow Thruster Casing.

Place: Istanbul, TR

Date: May 2022

Inspection: Esko Marine
BTMteknik

Application: BTMteknik

Wencon products used: Rapid, Coating White, Coating Blue,
Cleaner, appl. tools.



1. & 2.

The casing is heavily damaged, corroded and pittings are visible



3.

Unit is blasted with Garnet to take all rust and dirt out. Now pittings and damaged parts are visible. In order to get the best possible adhesion, surface is degreased with Wencon Cleaner.



4.

As soon as the surface is dry, Wencon Rapid is applied to fill dents/groves and to rebuild into original surface. Using a spatula, the housing is rebuilt layer by layer to original shape. Wencon Rapid exhibits many of the characteristics of metals, which together with outstanding adhesion to all metallic surfaces, makes the repair compound highly suitable for repair of corroded and worn metals.



5.

There has been made a wooden ring mould and filled with Wencon Rapid to rebuild the cover of the case. After it is semi cured, the ring has been taken off and the cover has been rebuilt to original shape.



6. & 7.

To avoid similar damage in the future, it is decided to be protected with Wencon Coating in a two layer system against corrosion. The first layer is applied in White with a brush.



8. & 9.

Second layer is applied in Blue and also with a brush. Wencon Coating offers resistance to oil, water, saltwater and most diluted acids and alkalis as well as a range of solvents. Heat resistance ranges from 60° C (140°F) in corrosive and heavy load environments and up to 250° C (482°F) when applied as a filling compound.



10. & 11. & 12.

After curing over night, only the after Works remains. The Wencon materials used at this job can be machined, drilled and worked like metal, after curing. Note the contact surface, which was heavily damaged; is now rebuild to original shape. The steel is now separated from the seawater, and will not be attacked by bimetallic corrosion for many years.

