

OFFSHORE HEAT EXCHANGER MAINTENANCE WITH BELZONA.

CUSTOMER

Workshop Westcoast Norway

APPLICATION DATE

Aug-21

APPLICATION SITUATION

Severe bimetallic corrosion to offshore heat exchanger endplates.

PROBLEM

Existing titanium bushings had caused severe bimetallic corrosion on the carbon steel endplate surfaces. The titanium bushing endplate surfaces was in urgent need of rebuilding and protective coating. Design Temperature 90 °C.

PRODUCTS

Belzona 1511 Super HT Metal

Belzona 1391S

Belzona 1391 Ceramic HT

SUBSTRATE

Carbon Steel

APPLICATION METHOD

The application was carried out in accordance with Belzona System Leaflet HEX-03. Following removal of existing titanium bushings the endplates was grit-blasted to SA 2,5 and 75µm surface profile. All corroded area was rebuilt in stages using Belzona 1511 Super HT Metal. Belzona 1391S was spray applied in 2 coats a 375µm. New bushings was applied/installed with Belzona 1391 Ceramic HT using custom made formers

BELZONA FACTS

This customer were looking at 3 options here. 1. Produce and replace both endplates. (Expensive and time consuming solution) 2. Reinstall new titanium bushings. (Expensive solution without solving the actual problem.) 3. Repair and protect the endplates using Belzona. The Belzona solution was found very cost effective and the equipment was repaired and returned to the customer within a week.

PICTURES

1. Corroded area
2. Corroded areas rebuilt using Belzona 1511
3. Endplates coated with Belzona 1391S (Spray applied 2 coats a 375µm) and prepared for forming new bushings with Belzona 1391 Ceramic HT using metal formers.
4. Complete application



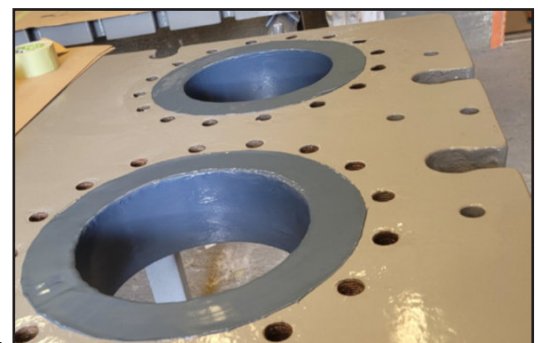
1.



2.



3.



4.

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