Offshore Heat Exchanger Maintenance with Belzona.

ID: 8580

Industry: Oil & Gas Customer Location: Workshop Westcoast Norway

Application: HEX-Heat Exchangers Application Date: August 2021

Substrate: Carbone Steel

Products: * Belzona 1511 Super HT Metal,

* Belzona 1391S,

* Belzona 1391 Ceramic HT,

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.









Photograph Descriptions

- * 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,

Application Situation

Severe bimetalic corrosion to offshore heat exchanger endplates.

Application Method

The application was carried out in accordance with Belzona System Leaflet HEX-03. Following removal of existing titanium bushings the endplates was gritblasted to SA 2,5 and 75µm surface profile. All corroded area was rebuildt 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

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

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FS 695214 manufactured under an ISO
ISO 14001:2015 9000 Registered Quality
EMS 695213 Management System.

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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

