

BELZONA STRESS CRACK LEAK SEALING AND PLATE BONDING ON EXTERNAL SURFACE OF CRUDE OIL EXPORT PUMP.

ID: 9474

Industry: Oil & Gas Customer Location: RAS LAFFAN, QATAR

Application: CEP-Centrifugal Pumps Application Date: June 2022

Substrate: Stainless-steel

Products: Belzona 1311 (Ceramic R-Metal), Belzona 1321 (Ceramic S-Metal)

Problem

The pump is suffering from leakage due to a combination of tensile stress and a corrosive environment which is the chloride content of the medium.

Leak due to stressed crack line which requires a crack sealing technique and plate bonding.



WIDENED CRACK LINE DRILLED DRY FITTING OF THE PLATE ON BOTH ENDS.



PRIOR TO HOLE SEALING AND PLATE BONDING



COMPLETED PLATE BONDING **USING BELZONA 1311**



TOP COATING COMPLETED FOR FOR THE BONDED PLATE PROTECTION.

Application Situation

A fabricated plate which is curved according to the grove of the external profile of the pump plate was prepared to completely covery the whole affected area.

The crack has to be sealed externally due to insufficient or limited access on internal area of the pump.

Application Method

Application was done using stiff bristled brush by manual application. Plate bonding was recommended to build additional wall thickness on the affected part of the pump.

The Application was done in accordance with Belzona System Leaflet CEP-06

Belzona Facts

Belzona Ceramic Rebuilding and Coating Grade has a high resistance against erosion-corrosion. Solution provided was accepted and approved by client instead replacing the whole pump. According to the client's feedback, after putting the pump back in service

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ISO 9001:2015 Belzona products are FS 695214 manufactured under an ISO ISO 14001:2015 9000 Registered Quality EMS 695213 Management System.

offshore, the equipment continues to perform well in operation.		

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