

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

ID: 9474

Industry: Oil & Gas
 Application: CEP-Centrifugal Pumps
 Substrate: Stainless-steel
 Products: Belzona 1311 (Ceramic R-Metal), Belzona 1321 (Ceramic S-Metal)

Customer Location: RAS LAFFAN, QATAR
 Application Date: June 2022

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 ON BOTH ENDS.



DRY FITTING OF THE PLATE 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 groove of the external profile of the pump plate was prepared to completely cover 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

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

ISO 9001:2015
 FS 695214
 ISO 14001:2015
 EMS 695213

Belzona products are
 manufactured under an ISO
 9000 Registered Quality
 Management System.

www.belzona.com


BELZONA
 Repair • Protect • Improve

offshore, the equipment continues to perform well in operation.

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

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

Belzona products are
manufactured under an ISO
9000 Registered Quality
Management System.

www.belzona.com

