

OIL COOLERS PROTECTED WITH BELZONA

ID: 6039



PROBLEM

The customer was getting cross contamination between process cooling water and process lubricating oil, due to the corrosion at the copper tube and carbon steel tube sheet interface.

APPLICATION SITUATION

The tube sheets and end covers of heat exchangers used for oil cooling were suffering from corrosion.

APPLICATION METHOD

The application was carried out in accordance with Belzona Know-How System Leaflet HEX-1. First, all of the tubes were corked. Then the surface of tube sheets and end covers were blasted. The tube sheet was then rebuilt flush and the pitting on end covers were filled in with Belzona 1121. All surfaces were coated with 2 coats of Belzona 1121 as per IFU.

BELZONA FACTS

Lead time for new coolers to meet exact specifications was 6-8 months out for the customer. The Belzona application method allowed the customer to return the equipment back to service within 2 weeks at 10% of the cost of new coolers. This is now the customer's preferred method versus buying new equipment.

INDUSTRY

Oil & Gas

LOCATION

Deer Park, TX, USA

APPLICATION DATE

March 2016

PRODUCTS

Belzona 1121 (Super XL-Metal)
Belzona 1321 (Ceramic S-Metal)

SUBSTRATE

Carbon Steel

PHOTOS

1. Chillers derived with pitting on tube sheet face.
2. Picture of end covers with pitting.
3. Finished end covers with final coat of Belzona 1321.
4. Repaired tube sheets with Belzona 1121 and Belzona 1321.

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

Belzona products are manufactured under an ISO 9001 Registered Quality Management System.

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