

BELZONA REPAIRS AND PROTECTS VACUUM PUMPS FROM CHEMICAL ATTACK

ID: 9284



PROBLEM

The vacuum pumps in oil and gas industry were damaged by Chlorobenzene (CB) attack.

APPLICATION SITUATION

The client was seeking a cost-effective solution to restore the profiles of vacuum pump components and additionally protect them from further chemical attack.

APPLICATION METHOD

1. The vacuum pumps were disassembled into its individual components in preparation for repair.
2. The surface preparation was done by sand blasting.
3. The pump components were rebuilt with Belzona 4301 and coated with Belzona 4311.
4. After the products were fully cured, the repairs were machined back to their original dimension before reassembling.

BELZONA FACTS

Belzona 4301 and Belzona 4311 can extend the service life of the vacuum pumps by additional 6-12 months. This proves to be a more cost-effective solution compared to either purchasing new pumps or upgrading to higher alloy materials.

INDUSTRY

Oil & Gas

LOCATION

Rayong, Thailand

APPLICATION DATE

March 2016

PRODUCTS

Belzona 4301 (Magma CR1 Hi-Build)
Belzona 4311 (Magma CR1)

SUBSTRATE

Stainless-steel

PHOTOS

1. Disassembled pump components
2. After sand blasting
3. The impeller rebuilt with Belzona 4301
4. The suction and discharge disks after coating with Belzona 4311

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

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