BELZONA RECONSTRUCTS TURBINE BLADES AND IMPELLER

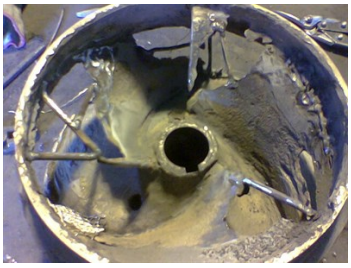
ID: 5091

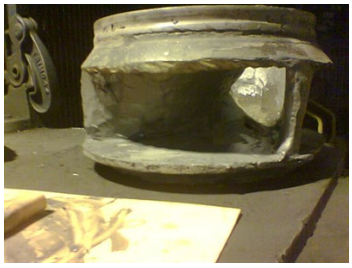
Industry: *Mining & Quarrying*
Application: *CEP-Centrifugal Pumps*
Substrate: *Steel*
Products: ** Belzona 1311 (Ceramic R-Metal) ,*

Customer Location: *Mine, Chile*
Application Date: *July 2010*

Problem

The worn-out turbine blades prevented the equipment from working properly.






Photograph Descriptions

* Original conditions of the impeller. The damage is observed as well as the welded bars. ,
* A wire mesh is placed to create the body of the turbine blades. ,
* Belzona 1311 was applied to the impeller ,
* Application completed. ,

Application Situation

Required coating for the impeller to protect it against severe abrasion.

Application Method

The impeller was cleaned and the turbine blades were repaired to its original dimensions. In order to achieve this, bars were welded to define the area and provide support. Then, a wire mesh was placed with the goal to strengthen the repair and define the body of the turbine blades, in order to later apply Belzona 1311. Application was carried out in accordance with a modified version of Belzona Know-How System Leaflet CEP-1.

Belzona Facts

The customer did not have an additional impeller at that time and the equipment had to remain in operation. For this reason the impeller was repaired without stopping the machine until the new equipment arrived the following week. Since the impeller that was repaired with Belzona 1311 was working well, it was replaced only after six months.