

Challenge

Issue

The pump required disassembly and recoating every 2 years.

Goal

 Substantially increase the MBTR of this critical pump from biannual to multiyear

Root Cause

The coal tar epoxy coating suffered under-film corrosion resulting in severe pitting and subsequent performance loss.

Solution

Preparation

- Remove old coating
- Clean of contaminates and soluble salts
- Abrasive blast to Sa 2.5 with 3 mil (75 μm) angular profile

Application

- 1. Rebuild pump to original dimensions using ARC 858
- 2.Restore critical tolerances using ARC 8583.Apply 2 coats of ARC 855

Results

Service Life Since Coating with ARC

10 years with some minor touch-ups

Client Reported Savings

- Plant avoided an expected 10 year purchase of a new pump: DKK 6M (\$1,000,000)
- Client estimated additional cost savings by eliminating the bi-annual pump disassembly, maintenance and recoating: DKK 1M (\$175,000)
- **Total 10 Year Savings:**

EN23593

09/14

>\$2,750,000



Pump condition after removal of the old coal tar coating



Suction intake after 10 years service. A few small spot repairs were required

\$=USD



Diffuser after 10 years. The red color is due to a corrosion inhibitor that leaves a thin deposit on the ARC coating

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only.

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