

High Density Stock Transfer Pump

Pulp & Paper — Stock Preparation ARC 858 and S2 Coatings Case Study 048

Challenge

Issue

Plant forced to consider purchase of new stock pump with \$50K cost and 4 week lead time. Downtime associated with replacement had estimated cost of \$300K.

Goals

- Avoid purchasing new pump replacement
- Prevent 4-week downtime

Root Cause

Existing stock pump irreparably damaged by the impellor when bearing threw its race and impellor impacted casing.

Salvaged stock pump

Solution

Preparation

Damaged used pump located at cost of \$20K

- Steam clean at 100 bar (1400 psi)
- Grit blast to Sa 2.5 with 3 mil (75 μm) angular profile

Application

- Mask sealing surfaces before coating
- Rebuild corroded and pitted sections with ARC 858
- Apply 3 coats of ARC S2 ~DFT: 60 mils (1.5 mm)

Results

Client Reports

Pump has been operating without any issues for over 30 months.

Client Reported Cost Avoidance

New pump \$ 55K 4 week downtime \$300K

ARC repair including used pump \$ 39K

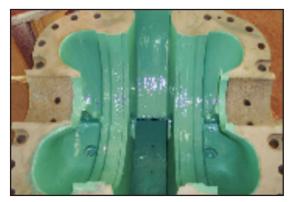
Total savings

\$336K

\$=USD



Surface prepared



Rebuilt salvaged pump