

Sugar Beet Pumps

Challenge

Issue

Pump volutes wore out before production campaign was completed, requiring unscheduled shutdowns and increased maintenance cost to repair.

Goals

- Protect the pump volute from abrasion
- Complete processing campaign without unscheduled shutdown

Root Cause

Severe abrasion and impact from unprocessed sugar beets, covered with sand and grit, wear internals prematurely.

Solution

Preparation

 Grit blast to Sa 2.5 with 3 mil (75 μm) angular profile

Application

- 1. Apply ARC BX2* @ 120-160 mils (3-4 mm)
- 2. Apply 1 coat of ARC 855 @ 15-20 mils (375-500 µm) to improve hydraulic efficiency

*ARC BX2 is the "Bulk" package size of ARC 897

Results

Client Reported

- Pump operated for complete campaign cycle without unscheduled shutdown
- Minimal wear to coated surfaces easily repaired
- Scrap and repurchase of casings reduced by 75%

Client Reported Savings Per Pump

Savings over 3 years:	\$23,000
5	

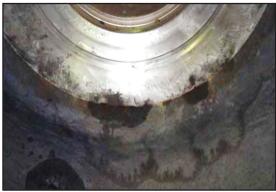
\$=USD



Damaged pump casing



ARC BX2* and ARC 855 applied to pump volute



Condition of coating at end of operational cycle

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

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