

Challenge

Issue

A sugar mill was trying to seal heavy slurry (63% solids) in multiple centrifugal pumps. The pump packing in use lasted an average of only three weeks. The plant considered the impact on these applications as a major reliability issue.

Root Cause

Packing was deforming under pressure and unable to control leakage.

Goal

Increase the packing life to five weeks to support the existing plant cycle.

Solution

Overview

- **Chesterton DualPac 2212** packing was installed in two pumps side by side. Each pump required five rings of packing installed as shown below.
- **Chesterton DualPac Technology** allows the combination of two unique materials to take advantage of the best properties of each. **DualPac 2212** combines an inner burn-resistant material with a highly resilient outer fiber, resulting in a packing that expands easily under gland load and achieves a reliable and quick break-in period.

Results

Client Reported

DualPac 2212 lasted twice the life of the competitor's packing. Customer's expectations were exceeded.

ROI

Labor cost = \$10/hour

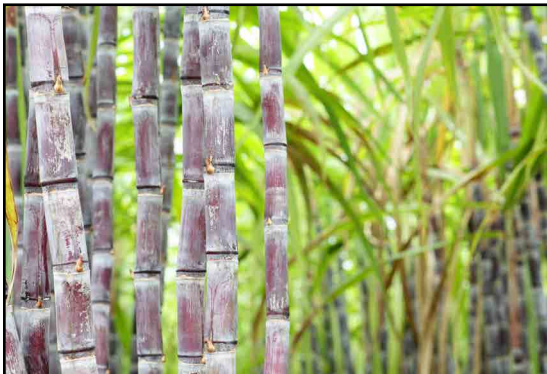
Downtime cost = \$50/hour

Packing cost savings = \$4,751

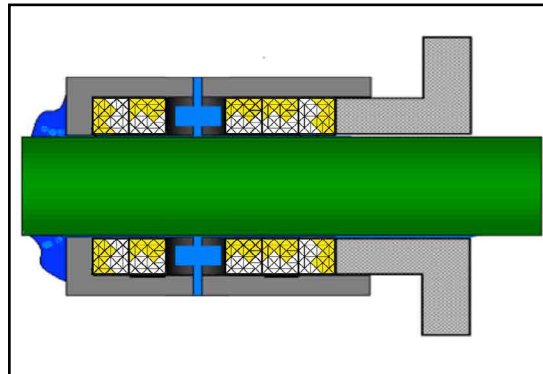
Downtime cost savings = \$1,600

Labor cost savings = \$320

Total Savings = \$6,671 per year



Sugar cane field.



Packing installation configuration.



Pumps where packing was installed.