CHESTERTON
Global Solutions, Local Service.

8X Longer Packing Life in Slurry

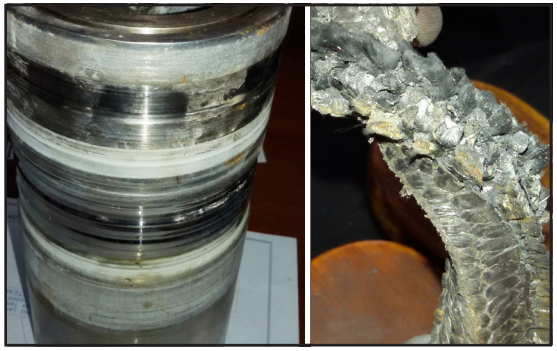
Fertilizer Manufacturing
DualPac® 2211 Packing
Case Study 026 RE

Challenge

Issue
Existing packing lasted only three days due to abrasive gypsum slurry in fertilizer mineral manufacturing process. Shaft required replacement every few days.

Root Cause
Existing packing failed due to a loss of compression, allowing the gypsum mineral to enter the stuffing box, fret the shaft, damage the packing, and cause uncontrollable leakage.

Goal
Achieve 15 days of continuous service to support plant cycle.

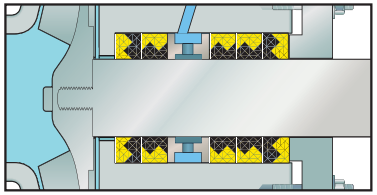


Gypsum slurry was getting under the packing set, resulting in damage to both the shaft and packing.

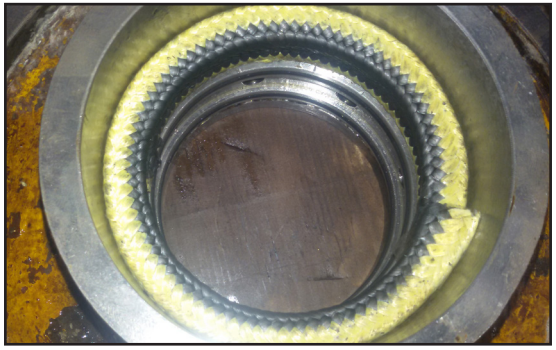
Solution

Overview

- Installed five rings of ***DualPac® 2211 Packing*** as shown below.



- ***DualPac Packing*** uses patented braiding technology that combines graphite filled ePTFE with a high strength and resiliency aramid. It results in significantly longer packing life and low wear on shafts.



DualPac 2211 Packing *installed. Note that middle rings are oriented with the aramid on the OD to create a tight seal that needs fewer adjustments.*

Results

Client Reported

- Achieved over 25 days of continuous service to support plant cycle.

Repair Costs/MTBF/Savings

Sleeve Savings	$351/month
Machining Savings	$281/month
Labor Savings	$1,054/month
Product Savings	$4,215/month
Packing cost	$271/month
Total Savings	**$5,630/month**
	$67,560/year

$=USD

Client saved nearly $70K US each year.

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