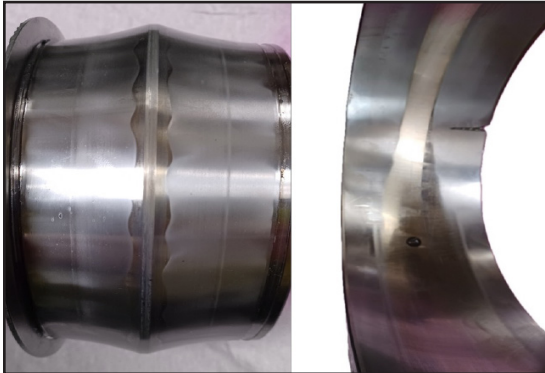


Challenge

Background

A paper machine experienced 15 bearing failures in the wet end over the past year due to a condition called "skidding." Despite the use of seals, water consistently found its way into the bearings, displacing and mixing with the grease. This leads to skidding—where the rolling elements slide instead of roll—causing high friction, excessive wear, and premature failure.

To prevent this, a specialized grease is required. It must stay in place under constant water intrusion, resist corrosion, handle both fine and large paper dust, and perform under high pressure. Additionally, it should maintain its integrity under speed and heat without separating.



Paper machine wet end bearing undergoing "skidding".

Solution

Product

On the paper machine, **Chesterton® 630 SXCF 220 #1** was used on machine #1, while the contracted competitor's grease was continued to be used on machine #2.

630 SXCF 220 #1 is a high performing grease designed to work on bearings with heavy exposure to water. It has phenomenal water washout and corrosion resistance.



630 SXCF 220 #1 high performing grease with excellent water washout and corrosion resistance.

Results

Reduced Bearing Failures

During the annual outage, machine #2 experienced 15 bearing failures with the contracted competitor's grease. In contrast, machine #1 using **Chesterton 630 SXCF 220 #1** grease had zero bearing failures.

Cost Savings: (paper machine #1)

Bearings \$5,000 × 15	\$75,000.
Labor \$6,400 per roller x 8	\$51,200.
Downtime cost	\$150,000. (can vary)
Total failure cost	\$276,200.
Chesterton 630 SXCF 220 #1	\$144,000.

Total Estimated Yearly Savings \$132,200.

\$ = USD



Wet end of a paper machine.