

LOST PRODUCTION

Purpose: To prevent recurrence, not place blame.

Report Date: 12-12-2013

Start Date: 03-12-2013

Report Number: NC23-0351

I. Problem Definition

What: Lost Production

When: December 18, 2013

Where: USA

Facility: Central 3

System: Processor

Significance: High

Safety: Minimal impact – increased exposure to lifted loads and slippery conditions

Environment: No Impact

Revenue: Downtime 44 Hours

Cost: \$2.4M

Frequency: First 1

II. Report Summary

Lost production was caused by the CHP having to be shut down when the wet end bearing failed. This bearing failed because of metal-to-metal contact due to the bearing lubrication becoming ineffective because the grease was washed and contamination was present.

The grease was washed out because the wet end labyrinth seal failed and allowed the entry of gland water. Excessive wear occurred in the end cover and the labyrinth seal because the lubricant supply ran out.

The contamination was caused by the failure of the screen filtration system due to the self-cleaning system not operating and the subsequent blockage not being identified. The self-cleaning system failure was caused by the water pressure falling below the minimum because of demands on the water supply elsewhere on the site. This, in turn, was caused by new planned production arrangements and the limited capacity of the water storage.

III. Solutions

Causes	Solutions	Solution Owner	Due Date
Water pressure fell below 25 psi	Install uprated pump to ensure supply	Phil Sager	03-02-2014
Blockage not identified	Increase inspections of screens to weekly	Stirling Maus	25-12-2013
Lubricant supply exhausted	Double capacity of lube supply	Nando Alonso	14-02-2014
Lubricant supply exhausted	Schedule weekly inspections of supply	Stirling Mice	25-12-2013

IV. Team Members

Name	Email	Member Info
Phil Sager	psage@somewhere.com	Reliability Superintendent
Roy Davies	rdavies@somewhere.com	Defect Elimination Officer
Nando Alonso	nalonso@somewhere.com	Plant Mechanical Engineer
Stirling Maus	smaus@somewhere.com	Plant Maintenance Supervisor
Bryson Fittipaldi	bfittipaldi@somewhere.com	Condition Monitoring Co-ordinator
Merv Shews	mshews@somewhere.com	Condition Monitoring Technician
Les Gibston	lgibson@everywhere.com	Facilitator & Reliability Engineer

V. Notes

1. Realitychart Status: The Realitychart and Incident Report have been finalized.
2. Rules Check Status: Missing Causes Resolved.
3. Rules Check Status: Conjunctions Resolved.

VI. References

1. Photo # 17
2. mining development plan at 23.01.2014
3. photo # 13

