Devon Westridge

Reliability Engineer

reliability-engineer@example.test
Calgary, Canada

Reliability results at Copper Vale Materials

12 to 4 bearing defects — Strip-down findings across two annual shutdowns after contamination checks were introduced.

Flow fault on two transfer pumps — Repeat seal failures traced to below-minimum flow. New start-up and shift checks followed.

Duplicate compressor alerts removed — Checked oil and vibration findings against work-order inspections for six compressors.

Skills

Diagnostics: Vibration and oil analysis, Root-cause analysis

Maintenance: Asset criticality, Inspection routes, Turnaround scoping

Summary

Reliability engineer at Copper Vale Materials, supporting pumps, compressors and bearings in continuous-process manufacturing. Uses equipment history and condition data to agree inspection intervals, operating limits and repair instructions with maintenance and operations.

Experience

2020-01 – Present **Reliability Engineer**
Copper Vale Materials

- Bearing contamination — Introduced contamination checks during relubrication. Strip-down findings fell from 12 to four defects across two annual shutdowns.
- Transfer pumps — Traced repeat seal failures on two transfer pumps to operation below minimum flow. Agreed checks at start-up and on each shift with operations.
- Release checks — Revised the seal replacement job with maintenance fitters. Added seal flush-flow checks and baseline readings, then checked repaired pumps at normal duty before release.
- Verification — Monitored repair requests for three months after changing the flow checks. Recorded action owners, repeat frequency and verification periods in the quarterly reliability review.
- Inspection routes — Ranked 41 rotating assets by failure consequence and process redundancy. Increased vibration readings for motor designs with repeat faults and documented longer intervals for lower-criticality units.
- Compressor alerts — Matched oil and vibration findings to work-order inspection results for six compressors. Checked duplicate alerts with maintenance planners before removing them.
- Repeat work orders — Reviewed 27 recurring orders with operations, maintenance and stores. Kept investigations open when the operating data could support only a symptom.

Experience (continued)

2016-06 – 2019-12 **Maintenance Engineer**
Northbend Paper Products

- Maintained asset records and supported monthly inspection scheduling for paper-machine drive assemblies. Updated lubrication points, coupling types and guarding constraints from field walkdowns.
- Worked with a planner to improve the annual drive shutdown list. Confirmed which inspections could be completed in operation and which required isolation or contractor support.
- Investigated intermittent trips after a pump motor replacement. Compared equipment history, wiring references and operating conditions with the electrical supervisor before requesting a vendor review.
- Used stores issue records to confirm consumption patterns for bearings and seals. Flagged two items with inconsistent cross-references and updated the asset bills of materials after the supervisor approved corrections.

2015-06 – 2016-05 **Mechanical Engineering Graduate**
Braewood Industrial Services

- Performed basic condition monitoring with the reliability coordinator and entered findings into the asset register. Prepared short fault histories for review at the maintenance meeting.
- Followed site checks for two contractor overhauls. Recorded parts replaced and verified the equipment identification references on the handover sheets before the lead engineer reviewed the job.

Education

2015 **BEng Mechanical Engineering**
Glacier Ridge University

Capstone on pump duty selection, throttling and off-design efficiency in a process water circuit.

Professional training

Condition monitoring and vibration fundamentals · Prairie Asset Training Centre · 2022
Baseline readings, rotating equipment fault patterns and vibration route exceptions.
Root cause facilitation workshop · Copper Vale Materials · 2021
Checked source evidence and followed up actions in two simulated equipment investigations.

Languages

English