

1

THE CHALLENGE

MEET THE PROBLEM.

For a machine this critical, failure had become routine.

The primary crusher at one of our local mines, was losing its eccentric bush every two months.

That meant:



6 major failures in a single year



R500,000 per breakdown in parts and labour

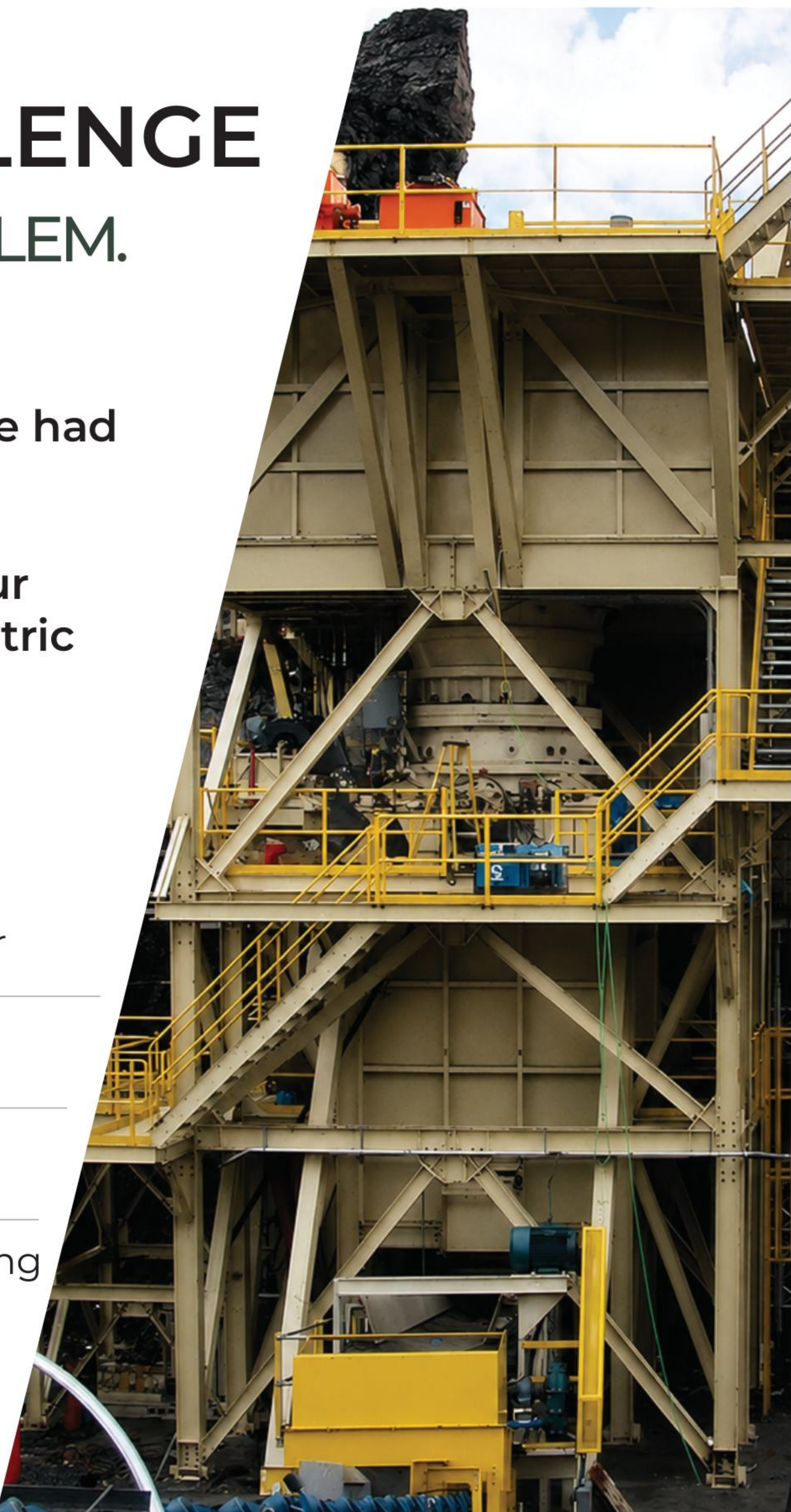


Around 180 hours of lost production potential



High-risk maintenance involving heavy lifting and constant machine-human interaction

By 2019, the problem was no longer maintenance. It was **operational risk**.



2

THE INVESTIGATION FINDING THE REAL CAUSE.

The failures were visible. The root cause wasn't.

A full RCA was done with site teams and global lubrication specialists.

What surfaced:



Lubricant contamination



Surface fatigue under extreme load



Metal-to-metal contact under shock conditions



Inconsistent film strength under pressure



The oil wasn't protecting the component. It was simply surviving.
That wasn't enough.

3

THE SOLUTION

A DIFFERENT LUBRICATION STRATEGY.

The approach changed completely.

LPR introduced:

- ✓ **Castrol Optigear BM 150**
with advanced PD additive technology
- ✓ **CJC kidney loop filtration system**
- ✓ **OEI magnetic scrubber**
- ✓ **Routine oil sampling and debris analysis**
- ✓ **Best practice guidance from global crusher experts**



Cleaner oil. Stronger film. Better surface protection.
The system finally had what it needed.

4

THE RESULTS

WHAT CHANGED? **EVERYTHING.**

After implementation:



Zero eccentric bush failures for
12 months



R2.798 million in annual cost
savings



No unplanned crusher
stoppages



Bush inspections showed
components still **fit for service**

**R2.798
MILLION
SAVED
ANNUALLY**



What used to fail every two months...
simply stopped failing.

5

KEY IMPACT

FROM CRISIS TO CONTROL.

The gains went beyond cost.



Fewer shutdowns



Less human-machine interaction



Reduced oil changes from six to one per year



Lower hydrocarbon waste



Safer maintenance environment



More confidence in a critical asset

“ The equipment didn’t
just run longer.
It started running the
way it should have from
the beginning.”



WANT RESULTS LIKE THESE?

Contact us to explore performance solutions.

**That's the LPR Group
Difference.**

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