

ROD MILL GEARBOX FAILURES DOWN 75%

A PERFORMANCE CASE STUDY
WITH A LEADING MINING PLANT

LPR GROUP
LOWE • PEO • RE-EME • ROCK & EARTH

 **Castrol**
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THE CHALLENGE

SOARING COSTS AND OPERATIONAL DOWNTIME DUE TO ROD MILL GEARBOX FAILURES.

In a **HIGH-OUTPUT** mining facility operating 25 horizontal rod mills powered by 350–500kW drives, **recurring gearbox failures** led to excessive downtime, maintenance overspend, and lost production hours - putting performance and budgets **under pressure**.

- ⚠ 4 Gearbox failures per year
- ⌚ 64 hours of downtime (16h/failure)
- 💰 R2.1 million in repair and replacement costs (R530k/unit)
- ⌚ R1.92 million in production downtime (R30k/hour)

Sometimes, all it takes is a smarter maintenance strategy to unlock millions.

THE SOLUTION



SWITCHING TO A HIGH-PERFORMANCE SYNTHETIC OIL TRANSFORMED ROD MILL GEARBOX RELIABILITY

LPR Group recommended replacing the standard mineral oil with a **high-performance synthetic lubricant** - engineered to reduce operating temperatures, minimise friction, and significantly **extend both gearbox and lubricant life**.



THE RESULT

THIS WASN'T JUST A LUBRICANT - IT
WAS A RELIABILITY STRATEGY.



Downtime reduced
16 hours
per annum



Gearbox failures
75 %
reduced

R1.44 million
production time recovered

R1.57 million
saved in equipment cost

- ✓ Improved rod mill productivity
- ✓ Total Annual Saving: R2.82 Million
- ✓ Gearbox Temperatures Reduced, Extending Lubricant Life

WANT RESULTS LIKE THESE?

Contact us to explore performance solutions.

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

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