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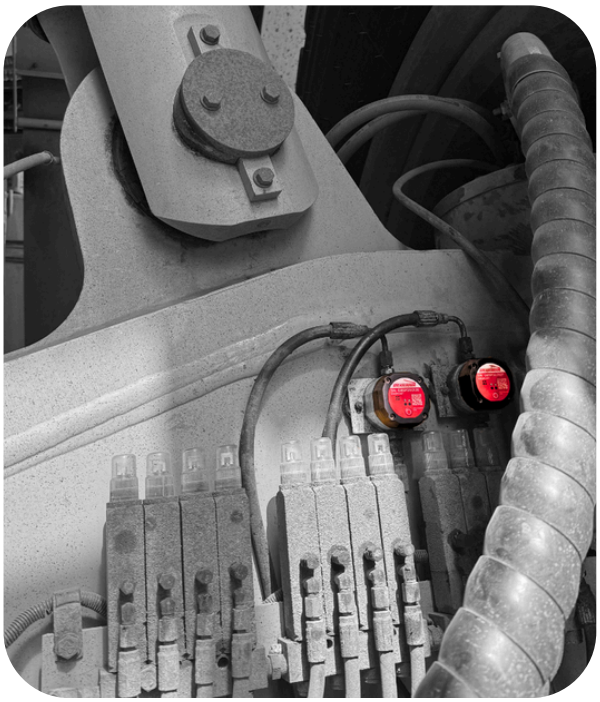
ELIMINATING HAUL TRUCK KING PIN FAILURES

GreaseBoss significantly eliminated kingpin failures and **saved $6.5 million annually** for a Tier 2 coal mine in Australia using **Critical Point Monitoring solution.**

CHALLENGES FACED

The customer, a Tier 2 coal mine in Australia, was experiencing frequent **kingpin failures every two weeks** across their new fleet of large haul trucks.

Each failure cost between $250,000 and $500,000 and there was no clear root cause able to be identified by the parties involved.



SOLUTIONS PROVIDED

GreaseBoss implemented the **Critical Point Monitoring** solution by installing **Endpoint LF** units on the kingpins of several haul trucks.

The **data revealed insufficient grease delivery and inconsistencies in injector performance**, prompting a full injector audit and faulty injectors to be replaced.

The system **alerted on sudden truckwide lubrication loss.** Investigation found a systemic error in automatic lubricator configuration.

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MEASURABLE OUTCOMES

REVEAL ROOT CAUSE OF GREASING ISSUE

The data from GreaseBoss highlighted that the **kingpins were not receiving sufficient grease**, and there were several inconsistencies in injector performance. A following injector audit **revealed that many injectors were mistuned.**

The data from GreaseBoss enabled the mine to understand the root cause of greasing issues and **prevent fortnightly kingpin failures**.

DETECTED AUTOLUBRICATOR SYSTEM FAILURE

The system also alerted on two trucks that experienced a **sudden and complete loss of lubrication across the entire lubrication system.**

This investigation revealed a fleet wide automatic lubricator configuration issue. This finding **triggered a full fleet refit** to eliminate this issue.