

ELIMINATING EXCAVATOR PIN & BUSH FAILURES

GreaseBoss's **Critical Point Monitoring** system significantly **eliminated downtime and repair costs** for an Australian Tier 1 coal mine by identifying and addressing lubrication issues on mining excavators.

CHALLENGES FACED

Our customer experienced regular pin and bush failures on their mining excavators, with no information on the volumes of grease being applied. OEMs provided vague answers and limited support.

Catastrophic pin & bush failures resulted in approximately **\$10 million AUD in downtime and two weeks for line boring**. Line boring and **new pin and bush replacement cost around \$500,000 AUD**. Early failures required a few days of downtime and cost **\$250,000 AUD to repair**.

GREASE-RELATED COSTS = \$17,500,000 AUD



SOLUTIONS PROVIDED

GreaseBoss installed Endpoint LF and Endpoint MP2 units on two new mining excavators to monitor critical points.

The system quickly revealed greasing anomalies on all eight injectors on an injector bank, correlating with a low pump pressure fault caused by a bypassing injector.

Additionally, the **grease data indicated significantly lower grease volumes on the boom foot pins** of one excavator, initiating an investigation into the injector settings.



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MEASURABLE OUTCOMES

PROVIDE VISIBILITY TO MAINTENANCE TEAMS

The GreaseBoss system successfully **alerted the maintenance team** of lubrication issues much earlier than any lube pump monitoring on the excavator and quantified the effect of one bypassing injector on the entire lube system.

This insight helps to prevent future catastrophic failures, **save millions of loss revenues from downtime and minimise repair costs.**