

# Mining Conveyor Application

## COOLING SYSTEM RELIABILITY UPGRADE WITH REDUNDANT PUMP CIRCUIT

### PROBLEM

A large-scale mining operation relied on an overland conveyor system to transport the majority of site production under extreme operating conditions, including high elevation and heavy dust contamination. In these demanding environments, airborne contaminants degraded oil quality over time, significantly impacting cooling system reliability. This led to premature internal wear of pump components and unexpected failures.

The result was unplanned conveyor shutdowns, causing costly downtime, lost production hours, and increased maintenance requirements in an operation where reliability is critical.

### SOLUTION

To cope with these challenging conditions, the original cooling system design supporting the Falk A-Drive gear units was enhanced through collaboration between Svendborg Brakes and Regal Rexnord. The solution focused on improving system reliability by implementing a redundant motor, pump and filter configuration, ensuring continuous cooling performance even in the event of a single pump failure. This improved design increases the reliability of the gearbox and, consequently, the entire conveying system by eliminating single points of failure within the cooling loop. The ability to maintain consistent oil flow and temperature control under harsh operating conditions significantly reduces the risk of unexpected shutdowns.

In addition, flow meters and temperature sensors were integrated into the electrical control cabinet, providing operators with real-time visibility into system performance. This enables early detection of potential issues, allowing users to identify the root cause of failures and take preventive action before they impact operations. The result is a more robust, intelligent cooling system that supports uptime, reduces maintenance demands, and demonstrates the value of coordinated expertise across the Regal Rexnord portfolio.

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### HIGHLIGHTS

- Svendborg Brakes redundant motor, pump and filter system supporting Falk A-Drive gear units
- Integrated flow meters and temperature sensors within the control cabinet
- Enhanced gearbox and conveyor system reliability
- Reduced unplanned downtime and maintenance-related costs
- Demonstrated cross-brand collaboration within Regal Rexnord



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