



ENVIRONMENTAL TECHNOLOGY

AESSEAL® upgrade solution eliminates environmental impact and delivers a 2000% improvement in MTBF

A mining operation in Australia eliminated water leakage to the environment, whilst improving pump reliability and reducing maintenance costs.

A coal mine in Australia were using gland packing in its coal slurry pumps, which had a Mean Time Between Failure of 4 – 6 weeks. The leakage from these packed pumps was causing the tailings dam to overflow into a nearby river, which needed eradicating or the company was liable for a heavy fine and associated clean up costs.

AESSEAL® installed a heavy duty slurry seal (type HDDSS™), a Water Management System (type SW2™) operating in an API Plan 53 configuration, and a stainless steel filter. The HDDSS™ is a back to back double seal specifically designed for Warman® pumps. The cooling water on this plant contained small amounts of magnetite and slurry so the filter was key to ensuring that the seal was flushed with clean water.

In addition the cooling water pressure was variable, so the SW2™ system with its none return valve ensured that the seal received a constant flow of flush water. Within one week of installing the new seal the customers saw the advantage of the new seal and subsequently replaced the packing on 30 other installations with the HDDSS™ seal.

The seals have been running for over 24 months without failure or leakage. They get changed out for repair whenever the pumps get rebuilt which is about every 24 months.

“Over 24 months without failure or leakage”

- Industry:** Mining
- Product:** HDDSS™ & SW2™ Water Management System with stainless steel filter
- Application:** Primary / secondary dence medium
- MTBF Increase:** >2000%
- Reference N.O:** CH01166



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