



ENVIRONMENTAL TECHNOLOGY

Mining company saves \$8 million AUD with AESSEAL® system

An Australian coal mine called in AESSEAL® to help solve a major problem with the water slurry disposal pumps.

The mine was having seal failures roughly every two weeks on four disposal pumps. The aggressive nature of the coal mine water slurry was not only damaging the seals, but was also causing bearing failure, resulting in significant downtime.

The customer had replaced 24 competitor seals in the previous 12 months, and the regular seal failure, bearing replacement and loss of production was causing major issues. In a 12 month period, without including the loss of production, the total maintenance bill was more than \$1.1 million AUD (over US\$750,000).

The competitor seals were replaced with four AESSEAL® heavy duty slurry seals and AESSEAL's SW2™ water management system, resulting in a safer, more reliable, and more environmentally friendly operation. The CDPH™ and DMSF™ seals, with fully machined glands to suit the Warman seal adaptor plates, both have large ports and increased radial clearances to withstand high levels of pump vibration, and so can maintain a stable fluid film to extend seal life.

The AESSEAL® seals have now been running without failure for over seven years with just routine maintenance during scheduled annual shutdowns. Even including the price of the seals, this has saved the company more than \$8 million AUD (£4.5 million / US\$5 million). It has extended the operational period five times longer than the previous OEM system and delivered a more reliable, safer and environmentally friendly operation. As a result, the customer is now looking at installing AESSEAL® seals and systems on other pumps at its site.



“Five times longer than the previous OEM system”

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| Industry: | Mining |
| Product: | CDPH™, DMSF™ and SW2™ |
| Application: | Coal Slurry Disposal Pump |
| Savings: | >\$8 million AUD (£4.5 million / \$5 million US) |
| MTBF Increase: | >400% |
| Reference N.O: | CH01346 |



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