



ENVIRONMENTAL TECHNOLOGY

Major savings follow installation of TPDS™ slurry seal

An Australian mining company has achieved savings of an estimated AU\$240,000 (US\$168,000) over three years following the installation of an AESSEAL® TPDS™ heavy duty mechanical seal.

The company’s original seal was not able to cope with the pressure which built up on the Warman tailings slurry pump. This led to repeated failures, with the seal having to be replaced every six months or so at a cost of around AU\$50,000 (US\$35,000).

In 2020 the decision was taken to replace the faulty seal with the more robust AESSEAL® TPDS™ heavy duty double slurry seal with Plan 54 barrier fluid set-up. This ran trouble-free for more than three years until the pump was taken out for a planned overhaul.

TPDS™ seals are specifically designed to meet the arduous requirements of slurry applications. Large ports and increased radial clearances enable the seal to maintain a stable fluid film for extended seal face life.

The frequent changes of the original seal meant that replacements were costing the company in the region of AU\$300,000 (US\$210,000) every three years. The AESSEAL® TPDS™ seal cost AU\$60,000 (US\$42,000) and was still running without a problem after three years, thereby saving the company an estimated AU\$240,000 (US\$168,000) over this period.

The success of the initial installation at the Australian site resulted in a decision by the company to fit all nine pumps at the site with AESSEAL® TPDS™ seals, saving the company an additional AU\$2,160,000 (US\$1,512,000) over the next three years.



‘Saving AU\$80,000 (US\$56,000) per year per pump’

Industry:	Mining
Product:	TPDS™
Application:	Tailings Slurry Pump
MTBF Increase:	500%
Savings:	AU\$2,400,000 / US\$1,680,000 (and counting)
Reference N.O:	TD3134022



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