



ENVIRONMENTAL TECHNOLOGY

New seals overcome persistent leakage

The installation of a new type of seal was the remedy for a series of seal failures at an Australian mining company.

The root of the problem was that the silt and calcium in the dirty process water was clogging the springs. As a result, the M74 style multi-spring seals kept failing on the split case pump. Water was leaking from both pump ends, leading to bearing failures, and continual downtime to carry out the necessary repairs.

AESSEAL's solution was to install 115mm FMG CURC™s T/T/V designed to suit the company's Grundfos Paco pumps. The adjacent pump had already been converted to the same CURC™s model, and had been running since June without any problems, with the area around the pump now staying dry and clean. The seals on the second pump were installed in November. The company is very happy with the result, and has asked AESSEAL® to make the same modifications on the third pump. This work will be carried out in the next month or so.

The previous MTBF was between two and four weeks. The new seals ran for 1 year before all the pumps were changed, as the casings were at the end of their life. This saved the company at least \$50k a year in bearing failures and seal change-outs, as well as the cost of labour required to carry out the repairs. The company were very pleased with the increased reliability and installed the new seals from AESSEAL® on the new pumps which are still running successfully today, over 2 years later.



'MTBF increased from <4 weeks to >12 months'

Industry:	Mining
Product:	CURC™
Application:	Split case pump
MTBF Increase:	1200%
Savings:	\$50,000 per year
Reference N.O:	TD3074375



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