



ENVIRONMENTAL TECHNOLOGY

## Increased reliability saves over 1.5 million ZAR

Plagued by an unreliable pump seal, a major South African refinery turned to AESSEAL® for assistance.

A potash pump fitted with a competitor’s component seal on API Plan 32 using condensate as a flush, had a mean time between failure (MTBF) of just seven months. It was costing more than 1 million Rand per year to repair the seal (excluding the cost of condensate lost to the process). On investigation by AESSEAL® it was discovered that due to the throttle bush clearance, there was insufficient seal chamber pressure. This was causing the seal to run dry, damaging the ‘O’ rings and resulting in leakage.

In December 2014, AESSEAL® replaced the component seal with a CAPI A TXS cartridge seal. Cost savings in the first 12 months of operation were 509,000 Rand (\$29,751). By May 2017, more than 1.5 million Rand (\$87,675) had been saved. As a result of this success, two additional pumps were also upgraded.

*“The new seals are very user-friendly and we already see a cleaner downstream product due to elimination of condensate contamination from the external flush. We have also seen a dramatic drop in the condensate usage.”*

**Mechanical Rotating Equipment Section Leader**



## ‘Improved reliability, reduced contamination’

- Industry: Oil & Gas
- Product: CAPI-A TXS Single Seal with API 32 Seal Support System
- Application: Potash
- MTBF Increase: 300% and counting
- Savings: 509,000 ZAR (first 12 months)
- Reference N.O: CH01453



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