



ENVIRONMENTAL TECHNOLOGY

## Improved MTBF for water injection pump

An upstream oil and gas company in Oman was having reliability issues with the sealing of its dual mode pumps.

The pumps operated at a low pressure of 150 psi and a high pressure of 550 psi. Reverse pressure caused the inboard stationary seal face to be pushed out of its seat and the seal was unable to contain the high pressure. These pumps are critical to the plant operation, and with a mean time between failure (MTBF) of between three and six months the plant was experiencing a significant loss of production. The cost of maintaining these pumps was US\$40,000 per pump per year. The customer approached AESSEAL® for an alternative solution.

AESSEAL® recommended replacing the competitor's seals with a CFFC™ dual seal. The CFFC™ has a robust design that is designed for use in upstream applications and in particular water injection pumps. The seals were installed in January 2016 and have proved to be highly reliable with an MTBF of three years. This has saved the customer US\$600,000 over the three years for their five water injection pumps.



## 'Highly reliable high pressure seals'

Industry:	Oil & Gas
Product:	CFFC™
Application:	Water injection pump
MTBF Increase:	500%
Savings:	US\$600,000
Reference N.O:	CS0129



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