



Reliability problem solved by AESSEAL® CAPI™ Dual Seal

A petrochemical company in the Middle East was having problems with the persistent failure of back-to-back seals in a propane mixture pump.

The company usually refurbished the seals through the OEM. Looking to reduce the level of expense involved in the frequent repair and maintenance, the company turned to AESSEAL® for a more cost-effective solution.

On inspecting a faulty seal, AESSEAL® engineers identified product contamination as the immediate cause of failure, but determined that the root of the problem related to seal selection and design.

AESSEAL® proposed instead a face-to-face CAPI™ Type A Dual Seal as the optimal solution. A face-to-back design was not feasible because this would have resulted in the barrier pressure exceeding the allowable limits. The stationary face-to-face seal design positions the seal spring away from the product, preventing clogging during operation and ensuring seamless performance and greatly improved reliability.

The new seal was installed in March 2021 and has improved the MTBF from around six months to nearly four years, in the process saving the company an estimated £15,000 (US\$19,000) in repair and maintenance costs.



‘Reliability increased from 6 months to >46 months’

Industry:	Petrochemical
Product:	CAPI™ Type A Dual
Application:	Propane Mixture
MTBF Increase:	666% (and counting)
Savings:	\$19,000
Reference N.O:	TD3115391



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