



ENVIRONMENTAL TECHNOLOGY

Upgrade delivers annual saving of \$15,000

ADM, which produces high quality renewable chemicals for a range of industries, had experienced repeated seal failure on a Goulds Pump 3196 MTX pump at its plant in North Carolina, USA.

The pump was sealed using a single mechanical seal, with a taper bore stuffing box and no flush.

The sugar-type crystallising process fluid was coking on the atmosphere side of the seal, causing it to fail at least three times a year over a period of years. This created ongoing expenditure in maintenance time, pump and seal parts and lost production.

ADM turned to AESSEAL® for a solution.

AESSEAL® replaced the single seal with a dual pressurised CDPN™ seal - a high-performance solution for general applications - and the lack of any seal support system with a SW2™ water management system.



‘A high-performance solution’

Industry:	Speciality Chemicals
Product:	CDPN™ and SW2™
Application:	Goulds Pumps 3196 MTX
MTBF Increase:	200% (and counting)
Country:	USA
Reference N.O:	CS0016



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The SW2™ connected directly to the plant water line, which became both its fluid and pressure source. The barrier fluid pressure was maintained at 1 bar/15psi above the stuffing box pressure, protecting the seal faces from the harmful process fluid.

The seal has functioned without failure for a year to date, an increase of at least 200%.

ADM calculated the savings associated with uninterrupted production, reduced maintenance and replacement parts at \$15,000 a year.



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