



ENVIRONMENTAL TECHNOLOGY

Reliability upgrade improves MTBF 2900%

A speciality chemical company in the USA was experiencing problems with the mechanical seal fitted on a phenol pump.

The single seal faces were regularly damaged by solids from the process fluid. The seal would subsequently leak heavily, causing harmful liquid to escape to the atmosphere, as well as causing a safety issue as the fumes reduced visibility. With the seal failing every 1 to 2 months the customer turned to AESSEAL® for a solution.

AESSEAL® recommended replacing the seal with the dual seal (DMSF™) along with a SW water management system and fluid distribution unit to provide clean water at a constant pressure. This solution ensures the seal faces are provided with a clean cool barrier fluid, and by being pressurised ensures that solids from the process fluid cannot get between the seal faces. The new seal and system were installed in June 2014 on 10 pumps and has worked flawlessly for more than 5 years, which is a significant improvement over the previous solution.

The cost of upgrading the pump was returned in less than a year. The customer was so satisfied with the performance of the new system that it has now been fitted as standard on all their phenol pumps.



'5 Years Trouble Free'

Industry:	Chemical
Product:	DMSF and SW Water Management System
Application:	Phenol pump
MTBF Increase:	2,900% (and counting)
ROI:	Less than 1 year
Reference N.O:	11052021-TLH01



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