



ENVIRONMENTAL TECHNOLOGY

Lower balance temperature and correct alignment the key to longer seal life

Lack of cooling with the existing system, improper installation and faulty alignment was causing a seal at a biofuel plant in Belgium to fail every one to two weeks, and sometimes after as little as one day.

After each failure, the pump had to be brought to the workshop so that the seal could be replaced. But on each occasion, errors in alignment and installation meant that the seal was bound to fail again within a short time.

Consultation with AESSEAL® resulted in the installation of a DMSF™ double cartridge mechanical seal, a high-performance seal specifically designed for difficult applications. This was installed in combination with the AESSEAL® 25 litre SP2™ support vessel with internal cooling coil, which results in a much lower balance temperature.

The AESSEAL® service engineer ensured that the pump was properly aligned and the seal correctly installed according to AESSEAL® best practices. He also advised the customer on an improved start-up procedure.

The result was an improvement in the MTBF from two weeks (and sometimes less) to seven weeks, with savings for the company estimated to be around €15,000. A further significant improvement in the MTBF is expected when the customer is more familiar with the correct alignment and installation.



before



after

‘Significant Reliability Increase’

Industry:	Oil & Gas
Product:	DMSF™ and SP2™
Application:	Mash Pump
MTBF Increase:	250%
Savings:	€15,000
Reference N.O:	TD3109292



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