



DMSF™ offers greater reliability for US company

An oilseed processing plant in the US was reporting persistent problems on a number of pumps in the refinery area.

The company, using single seals with no support system, was reporting an average of four seal failures a year on various pumps including stripper pumps and vacuum dryer pumps.

To reduce this high failure rate, AESSEAL® recommended replacing the single seals with its DMSF™ range of double cartridge mechanical seals. The DMSF™ is a high-performance sealing solution for arduous applications, and is regarded as the most technologically advanced mechanical seal in its class. Its patented, bi-directional, integral pumping design delivers high volumes of barrier fluid to the inboard and outboard seal faces, improving plant uptime and reducing maintenance costs.

Installing the dual DMSF™ and SW3™ CC and filter has greatly increased the MTBF. The first pump was installed in March 2024 and has been working for more than two years without a problem. The customer was impressed with the speed of response of AESSEAL® engineers and their readiness to discuss the issues and find the best solution. The use of the SW3™ with CC was particularly beneficial, as the operating temperatures were in excess of 200 degrees Fahrenheit.

The greater reliability of the DMSF™ seal has reduced downtime and maintenance costs, and is projected to save more than US\$130,000 on four pumps over a period of five years. The company has indicated that as a result it is likely to install more AESSEAL® DMSF™ double seals in the future.



‘Projected savings of \$130,000 after 5 years’

Industry:	Oilseed
Product:	DMSF™ & SW3™
Application:	Stripper/Vacuum Dryer
MTBF Increase:	800% (and counting)
Savings:	>\$65,000 (and counting)
Reference N.O:	TD3141598

