



ENVIRONMENTAL TECHNOLOGY

## Reliability Restored at Egyptian Sugar Refinery

A major sugar refinery in Egypt was experiencing critical failures in its seal systems, resulting in significant operational challenges.

The existing competitor seal was repeatedly failing due to the formation of sugar crystals damaging the seal faces and clogging springs, causing overheating, O-ring failures and frequent downtime. These issues were impacting the customer's productivity and creating serious health and safety concerns. The application involved a Warman pump handling filter cake (press mud), a notoriously abrasive and problematic substance.

The company contacted AESSEAL® for a more robust solution. In December 2023, AESSEAL® installed a 60mm DMSF™ dual mechanical seal along with a Plan 53B system to replace a single seal which was being used with a competitor's system. The DMSF™ and Plan 53B system immediately eliminated all the single seal problems. Since installation, the seal has shown no signs of trouble, drastically improving reliability.

Result? The old MTBF of one-two months has increased to 12 months and counting, so the company and its customers can have their cake and eat it. Also, they have so far saved \$8,000 on repairs. The success of this installation has led to AESSEAL® earning the customer's trust.

The customer was so impressed with the results that they are now preparing a follow up order which includes five cartridge seals and ten repair kits to experience more better service, competitive pricing and significantly reduced lead times from AESSEAL®.



## ‘From repeated failures to zero downtime’

Industry:	Sugar
Product:	DMSF™ and Plan 53B system
Application:	Filter Cake Pump
MTBF Increase:	500% (and counting)
Savings:	\$8,000 (and counting)
Reference N.O:	TD3121439



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