

Application Success Story

Petrochemical • Crude Oil Upstream • Seal

Easily Manage Your Tough Operating Conditions with SpiralTrac™

Challenge

Aggressive operating conditions (waste oily salt water associated with high percentage sand particles, H2S and chloride). Pump failure every 3-4 months due to aggressive sand particles and oily water, resulting in bearing/shaft sleeves worn out and lead to high vibration and mechanical seal leakage. High cavitation causing unstable axial movement. High maintenance costs.

Solution

Chesterton 225A Heavy Duty Industrial Dual Seal replacing OEM Seal. SpiralTrac Version N Type I installed for cleaning the stuffing box, providing a clean environment for the seal. Utilizing Plan 13.

Result

At the time of writing the pumps are running without any bearing or seal failure for 2 years. Increased MTBF. End user saved 65% alone on repair and maintenance costs.



SpiralTrac press fit installation shown from the impeller side



Application Info

Pump: Ensival Moret Waste Water Pump: EMTECH 100.200 E

Product: Crude Oil - Upstream, 60° C, 2950 RPM, 547 PSIG pressure, 317 GPM Flow rate



Aggressive operating conditions



SpiralTrac

Seal Version SpiralTrac made of BGE material



Chesterton 225A™ Heavy Duty Dual Seal

If this Success Story has piqued your interest and would like to know more, our technical support team can always be reached at support@enviroseal.ca



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