

Application Success Story

Petrochemical • Crude Oil • Mechanical Seal

From 3 Months to 3 Years...and Counting

Challenge

Aggressive operating conditions (waste oily salt water associated with high percentage sand particles, H2S and chloride). Average Mechanical Seal MTBF is 1-3 months due to associated high percentage chloride, aggressive sand particles and oily water. Frequent bearing failure due to bearing housing exposed to media and water. High maintenance and spare parts cost.

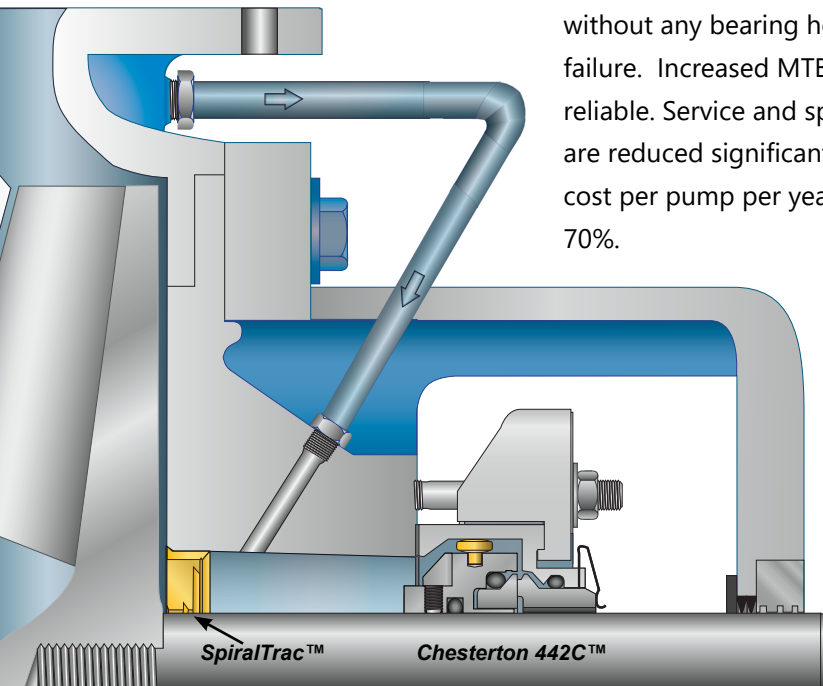
Solution

OEM Seal replaced with Chesterton 155™ and 442C™ with SpiralTrac Version N for cleaning the stuffing box, providing a clean environment for the seal to elongate the normal life time. Utilizing Plan 11 discharge flush configuration.

Result

As of writing, 3 years has passed without any bearing housing or seal failure. Increased MTBF, pump is more reliable. Service and spare parts costs are reduced significantly. Spare parts cost per pump per year reduced by 70%.

Plan 11 Configuration with SpiralTrac and Chesterton 442C Seal



Application Info

Pump: Enival Moret Waste Water Pump: EMTECH 100.200 E

Shaft size: 100 mm

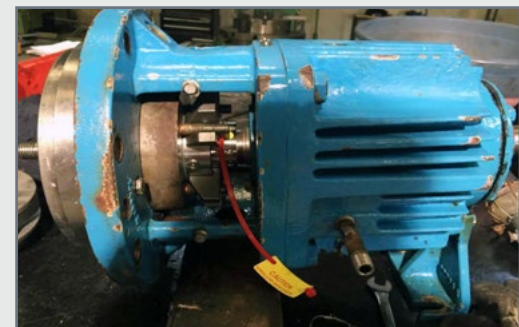
Product: Crude Oil - Upstream, 60° C, 3000 RPM, 25.5 bar pressure, 850 GPM Flow rate



SpiralTrac Version N Type I made of 316 Stainless Steel



Chesterton 442C™ and 155™ Mechanical Seals



Chesterton 155™ Seal installed with SpiralTrac Version N Type I

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



2456 Rocky Lake Drive • Waverley • NS • CANADA • B2R 1R6
Tel: (902) 861-3464 Fax: (902) 861-3522
info@enviroseal.ca • enviroseal.ca

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