Customer Case Study

Breaux Petroleum Mobilizes Emergency Flush for Petrochemical Plant

COMPANY Petrochemical Plant

LOCATION Lake Charles, Louisiana

SERVICE High Velocity Oil Flush

THE CHALLENGE

A petrochemical plant's centrifugal compressor experienced a critical failure when the dry gas seal broke apart and contaminated the lube oil system. The system was then started, causing the lube oil filters to collapse and introduce seal material into the bearings and bearing supply lines. A sample was pulled, and the lubricant showed an elevated particle count.

THE SOLUTION

Breaux Petroleum's team of technical specialists recommended an ATA (Annual Turbine Analysis) oil sample be sent and reviewed to verify usability of the current lubricant. Other than heavy particulate, the oil was found to be in good condition. A high velocity oil flush (HVOF) was recommended to remove contaminants from the critical piping of the lube oil system. Due to it being an emergency flush, Breaux Petroleum's team was able to review the system and quote the customer in under 24 hours.

PROJECT DETAILS

TYPE OF SYSTEM
Centrifugal Compressor

TYPE OF LUBRICANT
Turbine Oil (ISO VG 32)

TOTAL PROJECT TIME
6 Days
Completed on time and on budget

RESULT
Successful completion of HVOF with 15/12/09 ISO readings on lube oil

THE RESULT

Lube samples before (left) and after the flush was completed.

At six days, the HVOF was completed on time, on budget, and most safely. After 48 hours of runtime, paddle screens were installed and reviewed. The screens were found to be clean and free of any major particles, and free of ferrous material. The lube oil was sent for third-party verification where the lubricant was tested, and the particle count was ISO 15/12/09. Breaux Petroleum also successfully performed a confined space cleaning along with a final-fill oil filtration.

Key Fact: The HVOF was performed concurrently while the compressor was undergoing its rebuild.

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