

Solvancer®†-based technology helps chemical company extend compressor life, drive \$300K in productivity gains



Centrifuge compressor

Chemical company

Texas, USA

Situation

A chemical company operating a centrifugal compressor noticed that the equipment had elevated bearing temperatures. Reviewing the bearing temperature sawtooth clearly showed a steadily increasing pattern of temperatures, which is a classic symptom of high temperature deposits on bearings. After some investigation, the company identified excess leakage of NOx into the oil. They corrected the source of the leak, but the high temperatures persisted, so they asked the Mobil Serv™ Engineering team to recommend a solution.

Recommendation

After analyzing the data, the Mobil Serv Engineering team recommended a 30% bleed and feed followed by adding a Solvancer®-based oil soluble cleaning technology to the in-service oil to help dissolve the deposits and reduce temperatures to acceptable levels until the next planned outage. They also recommended the use of Mobil Serv™ Lubrication Analysis to monitor the progress of varnish mitigation and proactively detect NOx carry-over.

Impact

By using the Solvancer-based technology developed by Fluitec®, the Mobil Serv Engineering team was able to help identify an immediate solution to effectively mitigate alarms and address bearing temperature escalation while keeping the system operational and maximizing production. In addition, they were able to help the company extend the equipment's service life, affording them maintenance flexibility and saving more than \$300,000 in unplanned outage and maintenance costs.

Benefit

By helping to extend equipment life and prevent the shutdown of the centrifuge compressor, the Mobil Serv Engineering team helped the chemical company maximize productivity and deliver significant cost savings.

Company reported savings of

**\$332,000
USD**

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† Solvancer is a component for oil soluble cleaning technology developed by Fluitec.