

case study

Elimination of flushing and reduction of bearing temperatures for a chemical production plant in Belgium

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Problem

In a prominent chemical plant in Belgium experienced seal oil leakages and elevated bearing temperatures emerged, necessitating frequent replacements of seal oil. The escalating bearing temperatures posed a significant risk of triggering an unplanned shutdown.

Solution

Boost VR+™ was introduced into the system 4 months preceding an oil change, and in conjunction with the **VITA ESP™** unit, systematically cleansed the system prior to the oil change, eliminating the necessity for a chemical flush. The new charge of **Infinity™ Turbine Oil** provides a 10-year deposit free guarantee and sets the plant up for a potentially Fill4Life Turbine oil.

Results

Following the introduction of Boost VR+ and installation of the VITA ESP II unit, deposits surrounding the seals were effectively eliminated. Over the past 2.5 years of

Total Saved

\$169K

Client:	Major Chemical Production Plant
Country:	Belgium
Application:	Nuovo Pignone Syngas Compressor
Cost savings:	\$169,000 over 10 years
Oil savings:	15,000 liters
CO2e kg saved:	102,985 CO2e kg over 10 years
Solution:	Infinity Turbine oil, BOOST VR+, ESP VITA II



employing Infinity Turbine Oil, MPC levels have consistently remained below 10. Notably, the seal oil flow has been normalized and temperatures reduced to below 40°C. In addition, visual inspection of the seal oil rings exhibits significant improvement in cleanliness. Finally, bearing temperatures have also stabilized without any saw-tooth peaks. This maintenance action has resulted in improved operational conditions and a longer estimated oil life. Several years from now, the plant will consider adding DECON AO rather than changing the oil.

MPC TRENDS OF INFINITY TURBINE OIL OVER 28 MONTHS

