

CASE STUDY

# Extending the Oil Life on a Gas Compressor and Escaping Unplanned Outage

Fluitec's ESP and Boost VR help reduce bearing temperatures, extend oil life & save \$850k

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# Extending the Oil Life on a Gas Compressor and Escaping Unplanned Outage

**TOTAL SAVED**  
**\$850K**



**CLIENT:** Air Separation Plant

**COUNTRY:** USA

**APPLICATION:** Nitrogen Gas  
Compressor

**COST SAVINGS:** \$850k

**OIL SAVINGS:** Oil drain interval has  
been extended

**SOLUTION:** Fluitec ESP and Boost VR

## PROBLEM

A nitrogen gas compressor operator noticed increasing bearing temperatures and high levels of varnish. However, the machine could not be taken offline even though the bearing temperatures threatened this action.

## SOLUTION

Fluitec's ESP VITA I™ unit was installed to clean up the deposits formed and help in reducing the bearing temperatures. Boost VR™ was also added to the system to ensure that the varnish deposits remained in solution and that the unit would not be forced to shut down.

## RESULTS

- Within 4 months, the MPC values were restored to Normal levels.
- Bearing temperatures were also reduced and maintained at non-threatening values within a safe operational range.
- Oil's oxidants were depleted but will be changed at next opportunity.
- Avoidance of unplanned compressor outage estimating savings of \$850k.

