

case study

Reduction of elevated thrust and axial bearing temperatures at major oil & gas company in Qatar

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Problem

The Non-Drive End (NDE) of a propane compressor within a prominent Oil and Gas company in Qatar exhibited elevated temperatures, contrary to an MPC (Membrane Patch Colorimetry) test result of 7.5. The bearing temperatures recorded in the range of 76-84°C surpassed the stipulated warning limit of 70°C, requiring a thorough investigation. Subsequent physical examination of the bearing housings revealed substantial rubbing and deposits on the inner walls.

Solution

With the help of Petrotec, Fluitec's **Boost VR™** was added to the system and the **ESP VITA™** also attached in a kidney loop to help remove the deposits from the system.

Results

Within one week of initiating the integrated treatment protocol, MPC values diminished, leading to stabilized

Total Saved

\$71K

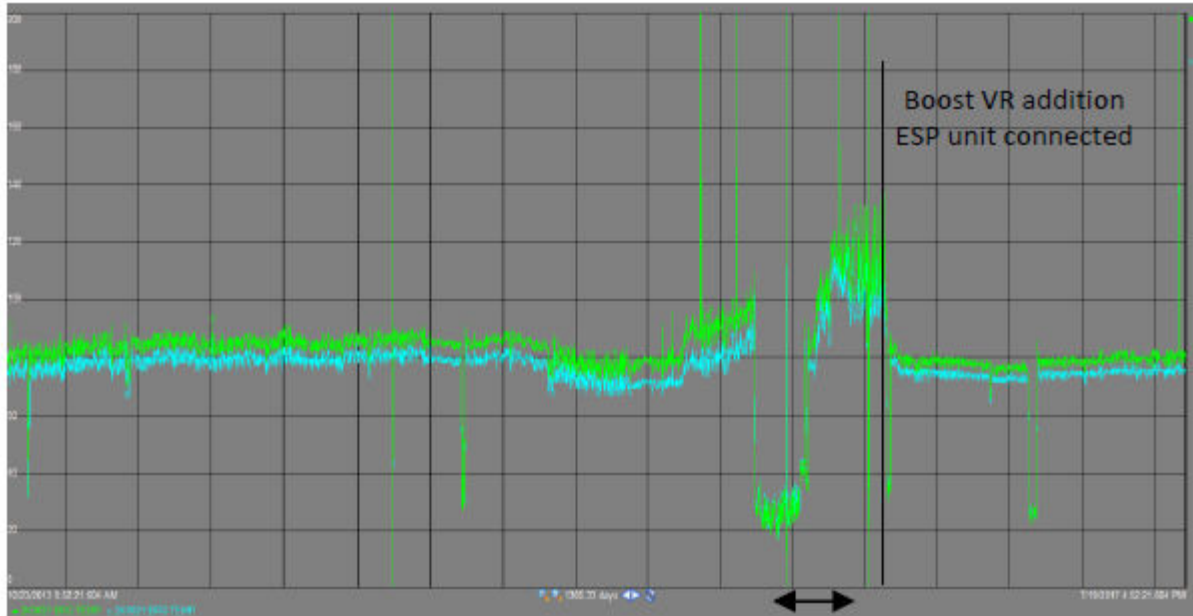
Client:	Major Oil & Gas Company
Country:	Qatar
Application:	Siemens MP Propane Compressor
Cost savings:	\$71,000 over 5 years
Oil savings:	3,300 liters
CO2e kg saved:	21,144 CO2e kg over 5 years
Solution:	ESP VITA III & Boost VR



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temperatures. Approximately five months later, the ESP VITA III unit was disengaged from the system, resulting in sustained bearing temperatures below the 70°C threshold. Subsequent physical examination of the bearing housings revealed a pristine condition, devoid of deposits.

Temperatures of the units before and after the Boost VR & ESP VITA III unit was used



Physical inspection

Bearing Housing



BEFORE



AFTER

