

case study

Prolonging oil life and reducing gas turbine bearing temperatures for a major offshore operator in Qatar

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Problem

Over a period of two years, a major Offshore operator in Qatar had changed lube oil on a particular turbine twice and was about to change it a third time. The oil analysis results revealed that the oil was in a critical condition with MPC values over 50 and the bearing temperatures kept increasing. These conditions would force the third undesired oil change.

Solution

With the help of Petrotec, Fluitec's **ESP VITA™ III** unit was attached to the system and **DECON™** added as well. This would help to prevent further deposits while removing the existing deposits to help return the temperatures to normal.

Results

Within four days, the MPC value was reduced and the bearing temperatures drastically declined. The MPC

Total Saved

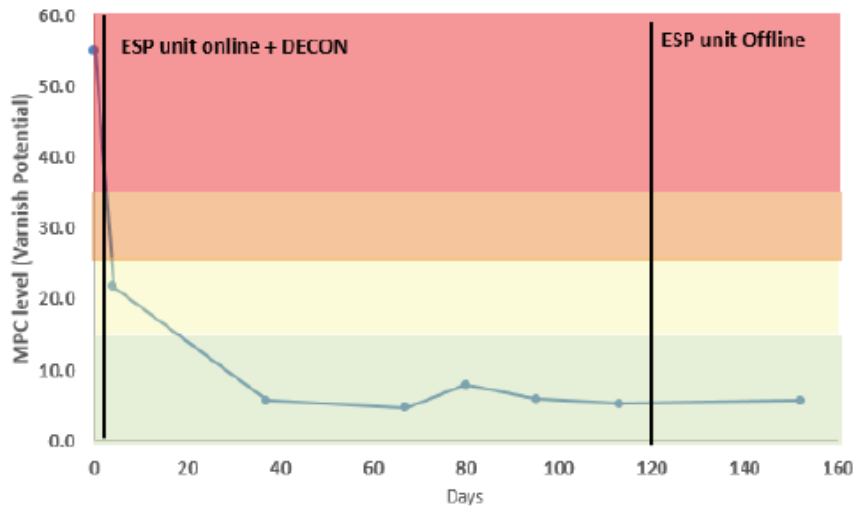
\$210K

Client:	Major Offshore operator
Country:	Qatar
Application:	Gas Turbine
Cost savings:	\$210,000 over 5 years
Oil savings:	5,500 liters
CO2e kg saved in 5 years:	203,597 CO2e kg
Solution:	ESP VITA III & DECON



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values have been maintained well below 10 even after the ESP unit was taken offline. The bearing temperatures also normalized and also remain below the warning limits after the ESP unit was taken offline.



MPC BEFORE

MPC AFTER

