

case study

Prolonging oil life and averting unplanned downtime for a major offshore oil & gas company in Qatar

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Problem

Following a recent overhaul involving lube oil and filter replacement, as well as a comprehensive oil cooler plate renewal, a customer observed elevated temperature, heightened differential pressure, and increased bearing vibration in one of their turbines. Despite the absence of critical varnish warnings in the lube oil analysis, the noted alterations raised significant concerns. Notably, with an MPC value of 20, the lube oil filters exhibited substantial contamination.

Solution

With the help of Petrotec, Fluitec's **DECON™** was added and its **ESP VITA III™** unit was attached to the system. These should help remove any deposits from the system and extend the life of the oil.

Results

Following the introduction of DECON, the MPC levels exhibited a noteworthy reduction from 60.8 to 5.3 within a

Total Saved

\$70K

Client:	Major Offshore Oil & Gas Company
Country:	Qatar
Application:	Solar Turbine
Cost savings:	\$70,000 over 5 years
Oil savings:	2,300 liters
CO2e kg saved in 5 years:	13,824 CO2e kg
Solution:	ESP VITA III & DECON



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two-week period. Integration of the ESP VITA III unit led to a subsequent and sustained decline in MPC levels, consistently maintaining below 5. Concurrently, the particle count witnessed a decrease, while the Acid number remained stable within acceptable parameters. Notably, antioxidant levels remained consistently within optimal ranges.

