

Fluitec Case Study



Singapore | Offshore Facility

Total Saved
\$160K

Problem

An offshore facility began noticing a decline in the efficiency of the heat exchangers in four of their Taurus gas turbines. Upon further investigation, oil analysis revealed that the MPC levels were within the critical range. The presence of varnish deposits were hampering the efficiency of the heat exchangers.

Solution

All four units were treated with DECON at a 5% rate.

- **Unit 1** (Taurus 60): MPC dropped from 41.1 to 6 and has stayed low without new oil or flushing.
- **Unit 2** (Taurus 70): MPC reduced from 44.1 to below 11 after 5% then 3% DECON treatments, avoiding chemical flush and mechanical cleaning.
- **Unit 3** (Taurus 70): MPC decreased from 56.9 to under 11 with a two-stage DECON treatment (5% then 3%), eliminating the need for a flush.
- **Unit 4** (Taurus 60): MPC declined from 33.5 to 3.1 and remains stable without oil or filter changes.

DECON effectively cleaned and stabilized each system, reducing MPC to safe levels while avoiding costly flushes, downtime, and new oil additions.

Results

All units were experiencing high MPC levels but after the addition of DECON, these levels drastically decreased and are being maintained.

- **Unit 1:** MPC decreased from 41.1 to 6 with 5% DECON
- **Unit 2:** MPC levels were 44.1, then 5% DECON was added for 9 months, filters and oil were changed. 3% DECON was added to new oil and MPC is being maintained <10.
- **Unit 3:** MPC levels were 56.1, then 5% DECON was added for 6 months, filters and oil were changed. 3% DECON was added to new oil and MPC is being maintained <11.
- **Unit 4:** MPC decreased from 33.5 to 3.1 with 5% DECON

Client:	Offshore facility
Country:	Singapore
Application:	Gas Turbines
Cost savings:	\$160,000 USD
Solution:	DECON™

