

case study

Solving rapid filter fouling and high varnish for a refinery in Poland

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Problem

Following a scheduled shutdown, the lube oil system of a gas turbine exhibited an escalating pressure differential across filter inserts. Subsequent oil analysis revealed a rapid increase in MPC levels, reaching up to 44, accompanied by the emergence of varnish deposits in the system.

Solution

Fluitec's partners assessed the existing conditions and decided to add **DECON™** at a treat rate of 3%. This should decontaminate the system and aid in reducing the constantly increasing differential pressures.

Results

Following the addition of DECON, MPC levels have consistently remained below 10. Simultaneously, the previously increasing filter differential pressures were stabilized. Other essential oil properties, including viscosity, oxidation stability, foaming

Total Saved

€392K

Client:	Major Refinery Company
Country:	Poland
Application:	GE Frame 9F Gas Turbine
Cost savings:	€392,000 over 5 years
Oil savings:	50,000 liters (sump size)
CO2e kg saved:	361,071 CO2e kg over 5 years
Solution:	DECON



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tendency, and air release, remained within acceptable parameters. This facilitated prolonged utilization of the turbine oil, eliminating the need for a flush and recharge operation.

