Fluitec Case Study

Singapore | Waste-to-Energy Plant

Total Saved
$146K

Problem
Due to the operations of a steam turbine in a power generation application in Singapore, the lubricant experienced rapid degradation. Oil was being changed every two years. Additionally, high MPC levels as well as deposits caused mechanical issues in the turbine and threatened unplanned breakdowns or a shutdown.

Solution
Fluitec's ESP VITA II was placed on the Steam turbine, one year after changing the oil. This helped to remove deposits and allows the turbine to operate more efficiently.

Results
MPC levels have been maintained at low values. The oil life has significantly increased by at least 4x which removed the need for flushing the system and the downtime associated with it. Additionally, the additive depletion rate is very slow which helps in the extension of the oil life. The steam turbine is now functioning efficiently with no mechanical issues.

Client:	Waste-to-Energy Plant
Country:	Singapore
Application:	Steam Turbine
Cost savings:	$146,000 USD
Oil savings:	$116,000 USD
Solution:	ESP™ VITA II