

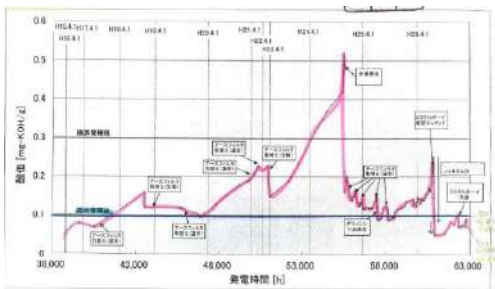
Sample Case : Gas Power Plant (Steam Turbine)



Electro-hydraulic governor for Gas Turbine (1,100MW) had oil oxidize issue which caused sudden malfunction.



Existing mesh type filtration system could not reduce acid value



They often exchanged an activated clay filter, but it could not lower the acid value to regulation level (When generator was in operation, the acid value even became higher than regulated level)

Current Situation	Equipment	Electro-hydraulic governor for Gas Turbine
	OIL	Phosphoric ester / fire resistant oil.
	Existed Filter System	High quality mesh type filtration & Activated clay filter
Issue		Even exchanging expensive filters and hydraulic oil, a sudden accident caused by oxidized oil cannot be prevented.



Counter Measure	Install MB to the hydraulic oil tank
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Result	Before MB installation, oil became dramatically clean, and acid level was reduced from 0.5 to 0.073 (regulation level is 0.1).
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Voice of Customer	We took all possible countermeasures till now, but none on them could not reduce acid level. However, after installation of MB, acid level has been maintained under regulated level, and it requiries no oil exchange which redcue the cost of US\$ 90,000/time.
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