

Power Plant Application



WINSONDA OIL FILTRATION SOLUTIONS

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CUSTOMER

SEC is a large gas-steam combined cycle power plant with a capacity of 2×180MW Locating in Shenzhen City, China.

Units Basic Info

- Units: GE PG9171E turbine, 2x 180MW
- Reservoir: 12000L
- Oil type: Mobil #32 turbine oil

PROBLEM

Customer has experienced sticky servo valve caused trips several times which brought them heavy loss from no guaranteed uptime. An oil sample was took and analysis report showed an MPC $\Delta E=43.7$ that indicated high varnish potential. The oil degradation deposits formed in oil system, shorten the lifetime of lubrication & critical components. That all pushed client to take action to prevent the occurrences of unscheduled breakdown.

SOLUTION

Winsonda's advance varnish removal unit (WVD-II) has been installed to the reservoir on 28th Mar. 2016 which aims to mitigate the varnish deposits and clean whole oil system.

RESULT

On 1st, April, MPC value dropped to 33.2

On 18th, April, ΔE reached 19.1

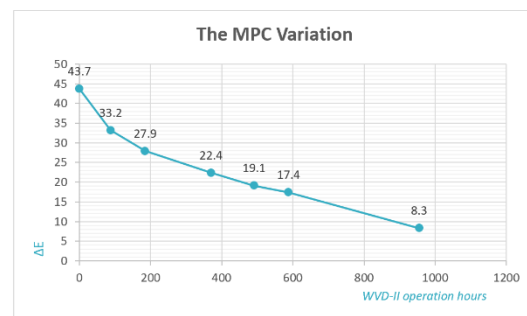
On 12nd, May, ΔE reached 8.3.

The result was clear and client was great satisfied with the performance of WVD-II when they rechecked the servo valve with a clean orifices condition. Moreover, all copies of oil analysis reports showed Winsonda's varnish removal units was no harmful to relative oil additives. Client expressed their ideas to keep cooperation with us oil contamination control.



BEFORE

AFTER



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