

SUCCESS STORIES

BACKGROUND

Application:

Power Generation

Location:

CA. USA

Site:

45 MW Gas-Fired Peaker Plant with a
GE LM6000 Aeroderivative Gas Turbine

PROBLEM

A Peaking Plant's Aeroderivative Gas Turbine failed to start as required based on grid demand.

The failure was determined to be the result of varnish-accumulation in the turbine's lube oil system.

Oil analysis revealed that the unit's turbine oil had a high MPC varnish potential, increasing the likelihood of similar oil-related fail-to-start events going forward.

SOLUTION

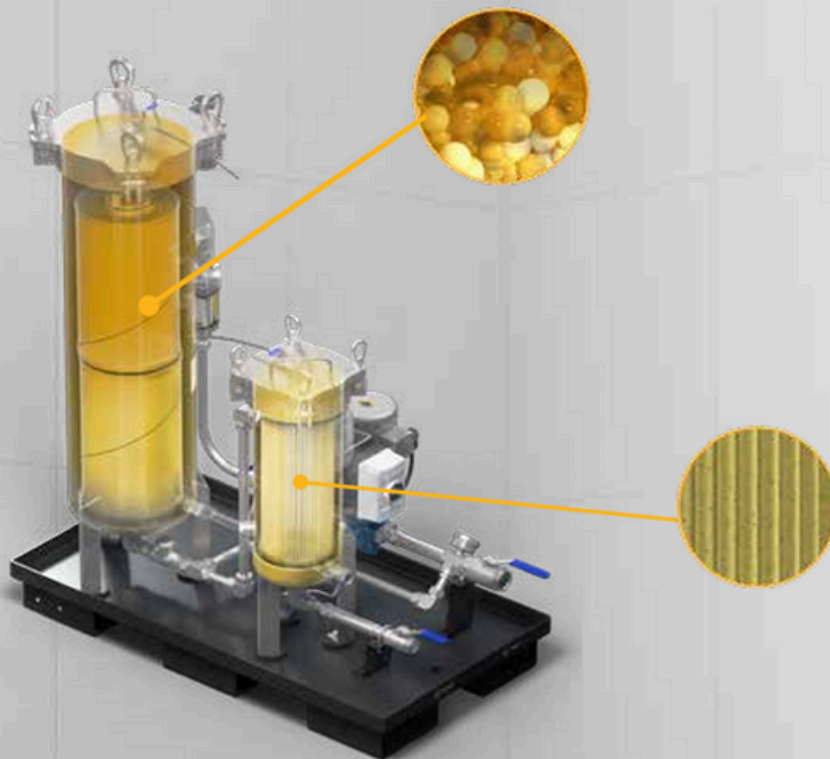
An SVR® Lubricant Conditioning skid employing ICB® JET filters was installed.

RESULTS

The installed ICB JET filters effectively removed varnish and its soluble precursors from the site's jet lube, improving its MPC varnish potential by 97% and maintaining its acid number within the application's required range. Since the filters were installed, fail-to-start conditions have been eliminated and the costly jet lube has not needed to be replaced.



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