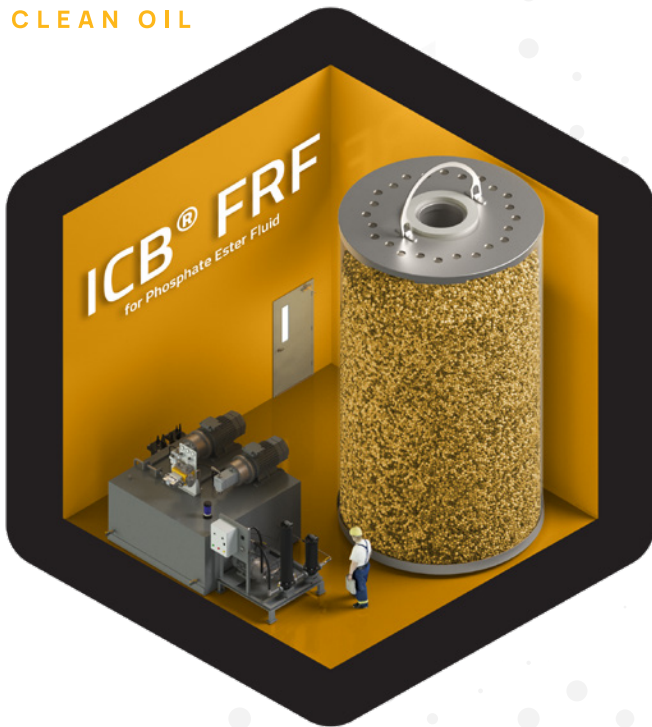


ICB® FRF CASE STUDY



BACKGROUND

Application: Power Generation

Location: CA, USA

Site: 602 MW Gas-Fired Combined Cycle
Plant with a Siemens KN Steam Turbine

PROBLEM

The Plant Operator experienced frequent valve failures in their Steam Turbine's Electro-hydraulic Control (EHC) system as the result of control oil breakdown/varnishing. To ensure reliable operation, the end user needed to replace the costly phosphate ester-based fire-resistant fluid (FRF) that their EHC system employed at least once per year.

SOLUTION

ICB® FRF filters were installed in the Turbine OEM's FRF filtration system.

RESULTS

The installed ICB FRF filters effectively removed varnish and its soluble precursors from the site's FRF, improving its MPC varnish potential by 95% and maintaining its acid number and resistivity within the application's required ranges. Since the filters were installed, valve failures have been eliminated and the costly FRF has not needed to be replaced for 5 years (and counting).



POWER GENERATION

