

Magnetic Filtration Case Study

February 2012



Solvay Chemical Plant

Rosignano Solvay, Tuscany
Italy

APPLICATION: De-mineralized Water Injection Cleaning System for Turbine Rotors

PROBLEM: High levels of ferrous metal contamination including rust contamination from stainless steel and cast iron piping.

SOLUTION: Alex Priori of Renox, a distributor for OEI, suggested the installation of multiple ½" x 4" OEI magnetic filter rods into existing Y-Strainers on the Steam Turbine (Photo A) to decrease the amount of ferrous metal contamination.

RESULTS: Photo B shows the accumulation of ferrous metal contamination including a vast amount of rusted material captured by a magnetic filter rod after 30 days in operation.

Due to the success of the OEI magnetic filter rods on the De-mineralized Water Injection Cleaning System, Solvay Chemical Plant has installed OEI magnetic filters on two more machines to improve the cleanliness.

RECOMMENDATION:

The OEI magnetic filter is easily cleaned and the trapped contamination analyzed for component wear identification allowing for predictive maintenance planning.

For further information contact our office or visit our website at www.OneEyeIndustries.com.