

CASE STUDY

Elimination of Gearbox Deposits in Steam Turbine Paper Plant in Germany

Fluitec's Boost AO and ESP help in reducing unplanned downtime

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TOTAL SAVED
\$1.1M



CLIENT: Paper Production Plant

COUNTRY: Germany

APPLICATION: Steam turbine gearbox

COST SAVINGS: \$1.1M

OIL SAVINGS: 1500 gallons / 5678 liters

SOLUTION: Boost AO & Legacy ESP



PROBLEM

A steam turbine's gearbox in a paper plant in Germany was experiencing an elevated amount of deposits in its radial bearings. These deposits caused an increase in the temperature of the radial bearings and threatened an unplanned shutdown of the paper plant which would cause a disruption in the production and delivery to its customers.

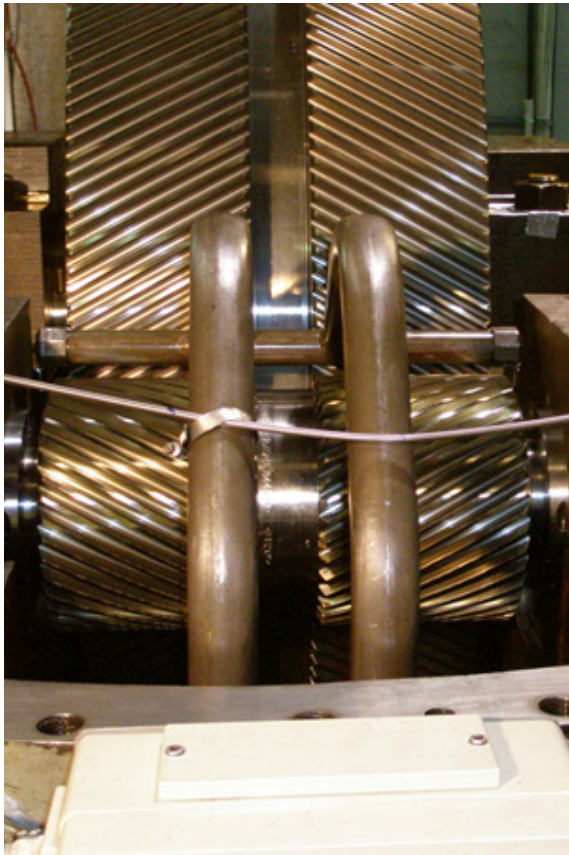
SOLUTION

Fluitec's **Boost AO** was added to the gearbox and the Legacy **ESP** unit was installed. Within one year of installation and multiple filter changes, the oil was cleaned up and the unit did not experience any downtime.

RESULTS

After the installation of the Legacy ESP & addition of Boost AO to the gearbox, there was a significant decrease in MPC levels from 38 to a maintained level of 12. The ISO cleanliness rate also greatly improved from 23/20/13 to 18/15/14 & 15/14/12. The system did not experience any unplanned downtime and the plant was able to successfully deliver its products to all of its customers.

BEFORE ESP TREATMENT – JUNE 2009



AFTER ESP TREATMENT – MARCH 2012

