ONE EYE INDUSTRIES

The Leader in Industrial Magnetic Filtration

Case Study: Gearbox Filtration Study
July 2012

PT. Setia Kawan
Pulp and Paper Mill
Kediri, East Java, Indonesia

APPLICATION: Splash oil lubrication system of a gearbox in a paper mill.

PROBLEM: Concern about excessive amounts of ferrous metal contamination in the splash oil system of the gearbox that will degrade the quality of the oil and prematurely wear the gearbox components.

SOLUTION: Beny Hermawan of PT. Sinarmentari Indoprima, the OEI distributor in Indonesia, recommended the installation of OEI's 3000 Series magnetic rod (3RNC5812) on a trial basis, to be placed in the circulating oil system of the gearbox, circulating Shell ISO VG 200 oil to extend the life of the gearbox components as well as the life of the oil.

RESULTS: Photo A shows the substantial amount of ferrous metal contamination from submicron to 100+ microns in size trapped on the OEI magnetic filter rod after only one week in operation.

Mr. William, Owner of the paper mill, was so impressed with the results of the OEI magnetic filter rod that he has now implemented use of OEI's magnetic filtration technology in all of their plant's lubrication systems to extend the life of the lube oil and the gearbox components.

RECOMMENDATION: The OEI magnetic filter is easily cleaned enabling analysis of trapped contamination for component wear identification and aiding in predictive maintenance planning. For more information, contact our office at 877-888-8727 or visit our website at www.oneeyeindustries.com

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