

**PENERAPAN FAILURE MODE AND EFFECT ANALYSIS
(FMEA) PADA SISTEM PERAWATAN OIL SEAL WASH PRESS
FIBERLINE 8 PT. INDAH KIAT PULP & PAPER TBK PERAWANG**

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ABSTRACT

This research discusses the application of the Failure Mode and Effect Analysis (FMEA) method in the Oil Seal Wash Press Fiberline 8 component maintenance system at PT. Indah Kiat Pulp & Paper Tbk Perawang. The aim is to identify potential component failures, analyze their causes and impacts, and determine treatment priorities based on the Risk Priority Number (RPN) value. The method used includes Condition-Based Monitoring (CBM) based measurements of three main parameters: temperature, vibration and disturbance (noise). The analysis results show that failure in the oil seal component has the highest RPN value (432), which means it has a high potential to cause disruption to the production system. Preventive maintenance recommendations are provided in the form of periodic inspections, scheduled replacements, and technician training to improve equipment diagnostics and minimize downtime.

Keyword:FMEA, Oil Seal, Preventive Maintenance, Wash Press, CBM, RPN