

CASE STUDY



IVC
TECHNOLOGIES



Title: Paper Mill Suction Press Roll

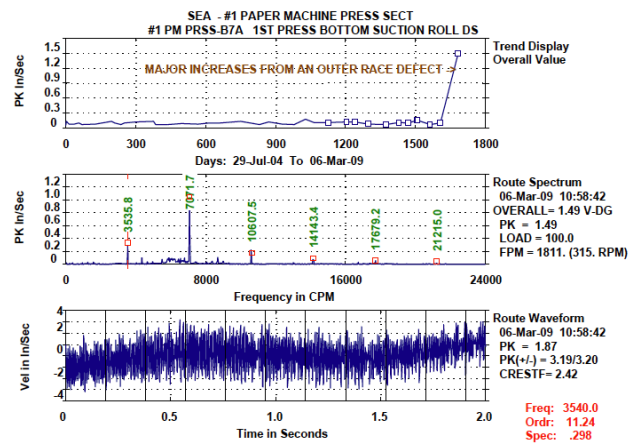
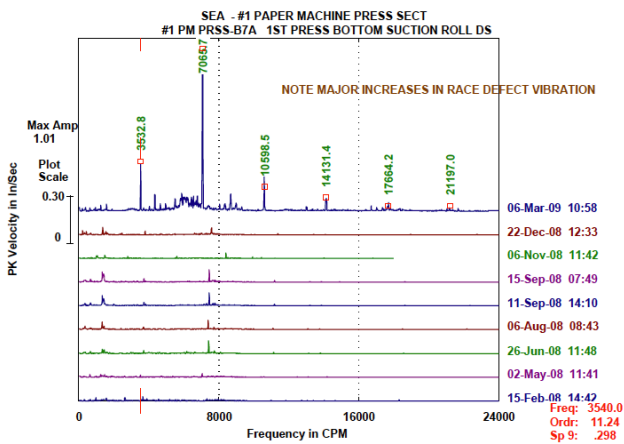
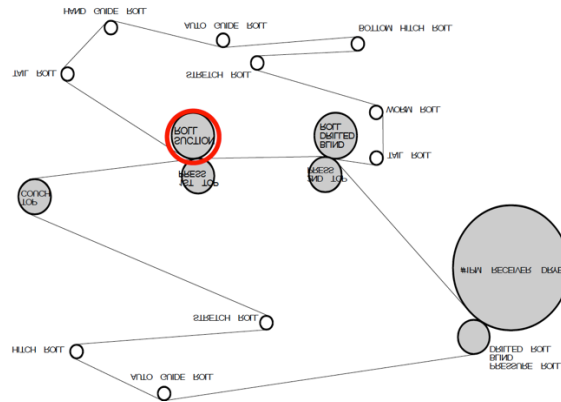
Industry: Paper | Machine: Suction Roll | Technology: Vibration Analysis

Purpose: This case study highlights a suction roll's drive side bearing in failure mode within the paper machine press.

Overview: The Massachusetts-based paper mill had been planning a shutdown over the coming weekend and was to perform maintenance on two paper machines.

Findings: During inspection the day prior to the shutdown, a vibration on this drive side bearing was detected. The maintenance director and the superintendent listened to the bearing with his stethoscope and commented that it sounded like a machine gun. The suction roll's drive side bearing was in a 'failure mode.' Instead of waiting another 14 hours for the impending shutdown, the machine was immediately shut down and the roll removed. The outer race of this 23052 drive side bearing was the source.

Corrective Actions Taken: The bearing was pulled, replaced, and re-inspected a week later.



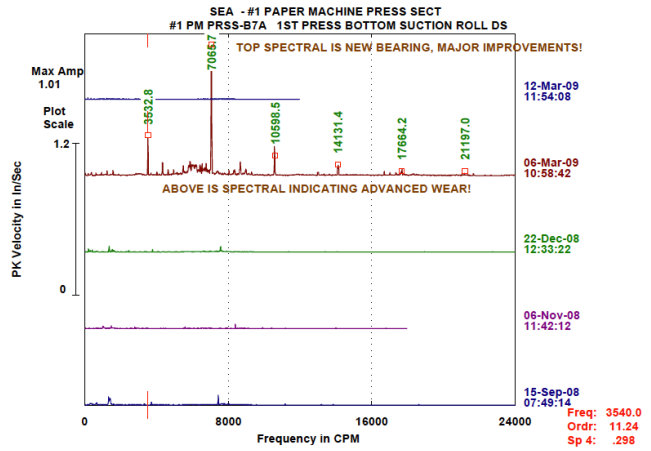
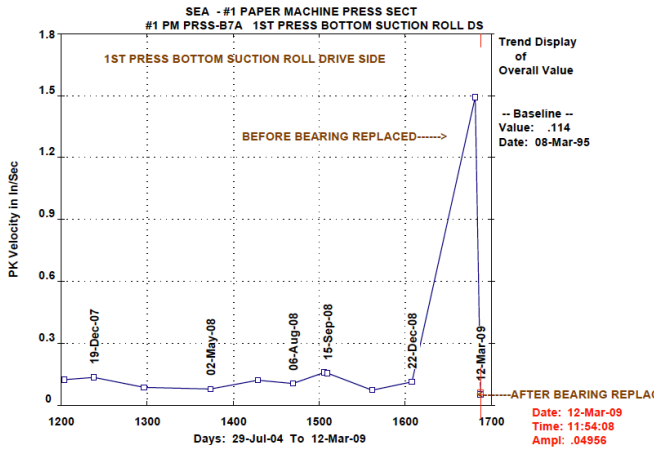
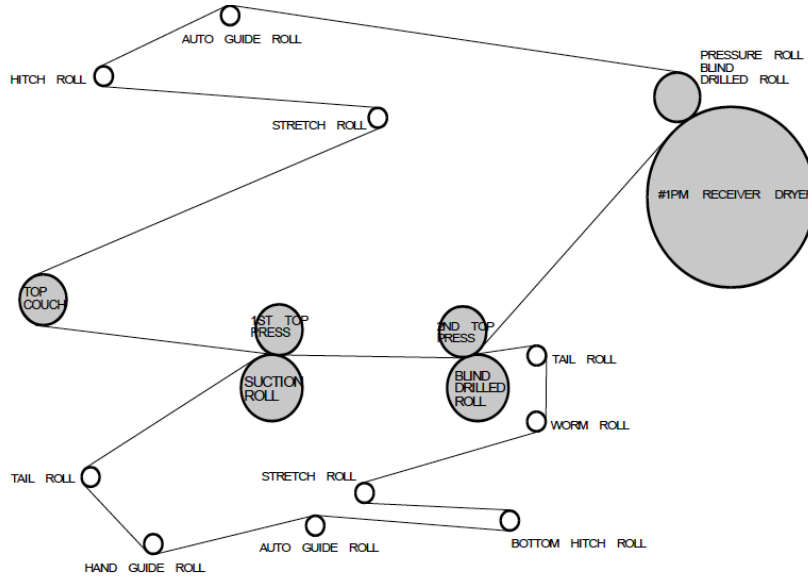
Post Repair Data:

Analysis: Major improvements on the suction roll drive side after replacing this bearing.



Recommendation: No further action at this time.

Feedback: The bearing was found to have excessive outer race wear, there was cage damage or roller damage. The new bearing allowed improved machine operability.



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