

Paper machine: Defective lubrication unit

- High speed paper machine
- System Reporter 200 with software version 3

Figure 1 shows a waterfall spectra with high frequency vibrations above 2 kHz, taken from a PU roll (pick up roll) in the press section of a paper machine (see Figure 2). The rolls have one bearing at each end, which are lubricated by oil from a central lubrication unit. The high-frequency vibrations occurred when the path from the central lubrication unit was blocked and no oil came through. Somewhere between 15:07 and 16:08, oil was added to the sys-

tem. As a result, the cluster of peaks above 2 kHz disappeared.

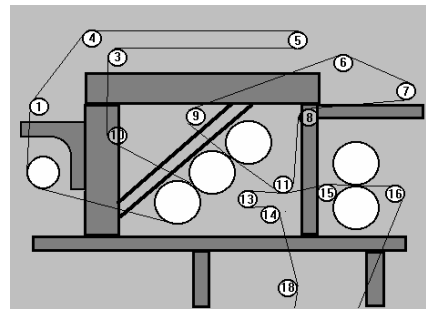


Figure 2. Press section with three felts.

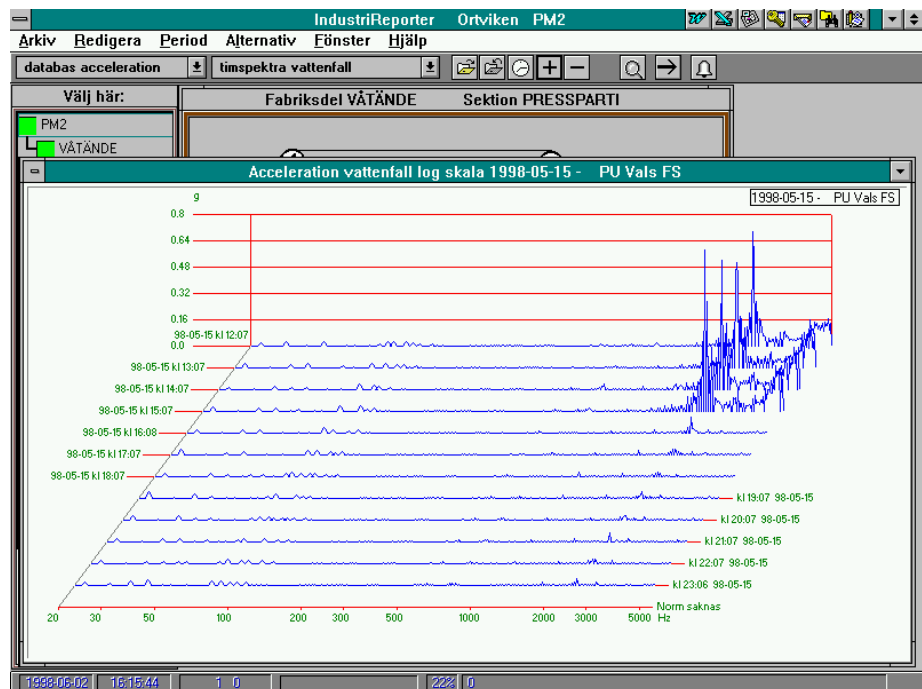


Figure 1. Waterfall spectra from 12⁰⁷ to 23⁰⁶ on May 15, 1998.



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