



QualiTest® Diagnostics

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July 22, 2019

Cascades Tissue
Memphis, TN

The following is a summary of findings from the July 2019 bi-weekly vibration survey of the Paper Machine. The Paper Machine was operating at around **3500** FPM during this month's survey.

QualiTest® uses a four step rating system for defects.

Class I: Defect is present, but effect on reliability is not clear; no immediate action is required. Continue to normally monitor.

Class II: Defect (s) present that may cause problem in long term (2-6 months). Repair during normal maintenance scheduling. Continue to monitor.

Class III: Defect (s) present that may cause failure in short term (less than 2 months). This should be addressed as soon as practical, with a high maintenance priority. Increase monitoring frequency.

Class IV: Defect (s) present that makes continued reliability unpredictable, and possibility of secondary damage is high. Repairs should be made ASAP. An unscheduled shutdown should be considered for repairs

Hi-Speed Industrial Service tests and inspects industrial machinery and equipment and makes recommendations concerning maintenance and repairs based on its experience in the field of industrial repair and maintenance. The information contained herein is provided as an opinion only, not as a guaranty or warranty of the matters discussed herein.

Defects

Felt Roll 9

Both roll bearings are showing signs of bearing defects in the outer race with the tending side defect frequencies being higher in amplitude. We will monitor this closely. 1 x rpm vibration has increased and is most likely due to resonance. Rated as a **CLASS II** defect.

W2 Wire Roll

Vibration data is still showing some bearing defects with both bearings. There is also a high axial vibration. The high axial vibration could be due to misalignment from bearing to bearing, bent shaft of the roll, or loose or flexible mounts. Inspect all mounts and fasteners and alignment of the roll as scheduling allows. Rated as a **CLASS II** defect.

Wire Roll 4

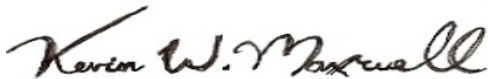
There is an unknown peak of vibration that is near the outer race fundamental but it does not line exactly up to the peak. This may be a resonance but we will monitor this closely. Rated as a **CLASS II** defect.

Reel Drum Bearings

There are still some rpm harmonics present which indicates some slight looseness is present. We will monitor this closely. Rated as a **CLASS I** defect.

As always, it has been a pleasure to serve the Cascades Tissue Memphis, TN Plant. If there are any comments or questions, do not hesitate to contact us.

Sincerely,



ISO Certified Vibration Analyst, Category III



QualiTest® Diagnostics

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