



QualiTest® Diagnostics

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January 13, 2020

Cascades Tissue
Memphis, TN

The following is a summary of findings from the January 2020 bi-weekly vibration survey of the Paper Machine. The Paper Machine was operating at around **3600 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 8 drive side

Data suggests loose bearing housing in clamp. Inspect rubber shims between clamp and bearing, and ensure all fasteners are tight. Rated as a **CLASS II** defect.

Felt Roll 11 tending side

Data suggests loose bearing housing in clamp. Inspect rubber shims between clamp and bearing, and ensure all fasteners are tight. Bearing may also have fit looseness. Rated as a **CLASS II** defect.

Wire Roll 4 tending side

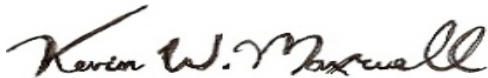
Data suggests loose bearing housing in clamp. Inspect rubber shims between clamp and bearing, and ensure all fasteners and mounting structure is tight. Rated as a **CLASS II** defect.

Reel Drum Bearings

Drum bearing data is showing some mechanical looseness especially the drive side bearing. Bearings should be need be inspected as time allows. We will monitor this closely. Rated as a **CLASS II** 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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