



QualiTest® Diagnostics

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August 10, 2020

Cascades Tissue
Memphis, TN

The following is a summary of findings from the August 2020 bi-weekly vibration survey of the Paper Machine. The Paper Machine was operating at around **3400 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

Reel Drum Bearings

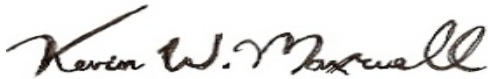
Drum bearing data is showing some mechanical looseness especially the drive side bearing. Bearings should be need be inspected as time allows. We will monitor this closely. Rated as a **CLASS II** defect.

Yankee Dryer Drive

The Yankee Drive is experiencing higher vibration this survey. Yankee East Motor and the gear drive have an elevated 2 x rpm vibration that may be caused by a driveshaft issue. Most of the vibration is coming from the Sunday Drive. This unit is very resonant at 40 Hz. This frequency is also 2 x rpm when the Paper Machine is operating around 3400 fpm. Sunday drive should be inspected soon as the vibration in this unit is **over 2.5 ips-pk** which is extremely high amplitude. The driveshaft should also be inspected. Ensure motor drives are synched properly as well. Rated as a **CLASS III** defect due to the high vibration of the Sunday Drive.

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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