



November 6, 2019

Arvin Sango

Subject: November bi-annual vibration survey

Most of the machines surveyed were found to be in good condition with the exception of the following:

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.

This completes our assessment of your equipment for this survey. Thank you for your business and don't hesitate to call if you have any comments or questions.

Sincerely,

David W. Shook
Service Manager

QualiTest® Diagnostics

Division of **Hi-Speed Industrial Service**

dshook@gohispeed.com

Dust Collector Fan

The vibration data shows an increase in fan shaft vibrations at fan and motor speed. We suspect one or more of the following issues:

Build up on the fan wheel plus; sheaves out of alignment, worn sheaves, worn belts, eccentric shaft or sheave, loose fasteners, and possible frame cracks. Clean and inspect the fan wheel and all associated parts. Call for a trim if needed. **Rated A Class II Defect.**

Air compressor A (East)

Air compressor shows normal synchronous vibrations associated with lobe passing frequencies, but with slightly elevated amplitudes. We also see increases in amplitudes of other non-identified vibration peaks. Insure the compressors are well maintained. Rated a **Class I Defect** for now.

North East Chiller Pump

Top Bearing acceleration is up slightly again. Check the greasing schedule and grease type. Grease the bearings if possible. **Rated a Class I Defect.**