

March 31, 2021

Solae

Subject: March final vibration report

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
Senior Reliability Specialists
Hi-Speed Industrial Service
dshook@gohispeed.com

MS2P WET/ 2P CURD

No new data

MS2P WET/ 2P BATCH

3550 NORTH BOGEY PUMP

The Motor axial is up at 1x RPM and the pump has an increase at 6xRPM. We suspect possible mechanical looseness in or around the motor and wear in the pump or a process issue. Check the unit fasteners for proper torque, inspect the structure and check process parameters as time allows. **Rated a Class I Defect.**

MS2P-CIP/MS2P-CIP

No new data

MS2P FEED DRYER/ 2P FEED DRYER

No new data

MS2P DRYER/ 2P DRYER

No new data

MSP WET/ MSP CURD

No new data

MSP WET/ MSP BATCH

No new data

MSP CIP/ MSP CIP ROOM

No new data

MSP FEED DRYER/ MSP FEED DRYER

No new data

MSP DRYER/ MSP DRYER

3655 TURBO FAN

Bad Data

3618 EAST EXHAUST FAN

Bad Data

800 T GRINDING/ 800 T MONTHLY

2P 3043 2P NORTH MILL RECEIVING FAN

The vibration data shows a dramatic decrease in fan shaft overall vibrations after interim repairs with modifications to bearing placement due to shaft wear. Shaft speed vibrations are above normal for the fan and the motor. Replace the fan wheel/shaft assembly during the next opportunity. Consider choosing bearings more suited for high speed fans. **Rated a Class II Defect.**

2040 TRACK 5 BLOWER

Bad Data

MS2P GROUND FLAKE/ 2P WET IN

No new data

MSP GROUND FLAKE/ MSP GROUND FLAKE

No new data

MSP-2P UTILITIES/SOUTH PLANT UTILITIES

No new data