



QualiTest® Diagnostics

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May 10, 2021

General Recycling

Subject: April 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.

Defects

Conveyor 11

This unit continues to have high radial and axial vibration that is likely due to the conveyor drum shaft being bent and the motor base being flexible. Inspect conveyor shaft for excessive run-out soon. Ensure belts and sheaves are aligned properly and not excessively worn. Rated as a **CLASS II** defect.

Cyclone Fan

Outboard (opposite drive end) fan bearing is showing some signs of race defects according to the spectral data. We will continue to monitor this closely. Rated as a **CLASS II** defect for now.

Abbreviated Last Measurement Summary

Database: nucorja9.rbm
Station: Scrap Yard

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
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SHREDDER - SHREDDER (28-Apr-21)		
	OVERALL LEVEL	1K-20KHz
MOH	.219 In/Sec	.047 G-s
MOV	.167 In/Sec	.043 G-s
MIV	.139 In/Sec	.157 G-s
MIH	.238 In/Sec	.117 G-s
MIA	.139 In/Sec	.190 G-s
CYCLONE - CYCLONE (28-Apr-21)		
	OVERALL LEVEL	1K-20KHz
MOH	.120 In/Sec	.565 G-s
MIH	.135 In/Sec	.113 G-s
MIA	.109 In/Sec	.224 G-s
EIH	.177 In/Sec	.148 G-s
EOH	.188 In/Sec	.114 G-s
M3 - MAG DRUM (28-Apr-21)		
	OVERALL LEVEL	1K-20KHz
MOH	.087 In/Sec	.149 G-s
MIH	.082 In/Sec	.194 G-s
MIA	.065 In/Sec	.048 G-s
GIH	.078 In/Sec	.075 G-s
GOH	.056 In/Sec	.098 G-s
IDB	.041 In/Sec	.0052 G-s
ODB	.056 In/Sec	.0023 G-s
NUMBER 11 - NUMBER 11 (28-Apr-21)		
	OVERALL LEVEL	1K-20KHz
MOH	.653 In/Sec	.434 G-s
MIH	.810 In/Sec	.358 G-s
MIA	.479 In/Sec	.275 G-s
EIH	.497 In/Sec	1.198 G-s
EIA	.353 In/Sec	1.353 G-s
EOH	.263 In/Sec	.054 G-s
SAIRCOMP - NEW SEPARATOR SOUTH AIR COMP (28-Apr-21)		
	OVERALL LEVEL	1K-20KHz
MOH	.088 In/Sec	.146 G-s
MIH	.087 In/Sec	.725 G-s
MIA	.079 In/Sec	1.551 G-s
EIH	.071 In/Sec	.338 G-s

EIA	.057 In/Sec	.639 G-s
EOH	.058 In/Sec	1.250 G-s

NAIRCOMP - NEW SEPARATOR NORTH AIR COMP (28-Apr-21)

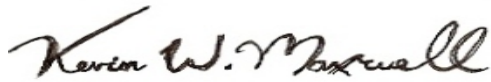
	OVERALL LEVEL	1K-20KHz
MOH	.524 In/Sec	.296 G-s
MIH	.121 In/Sec	.626 G-s
MIA	.075 In/Sec	1.081 G-s
EIH	.170 In/Sec	.390 G-s
EIA	.069 In/Sec	.850 G-s
EOH	.076 In/Sec	.816 G-s

Clarification Of Vibration Units:

Acc	-->	G-s	RMS
Vel	-->	In/Sec	PK

As always, it has been a pleasure to serve General Recycling. If there are any comments or questions, do not hesitate to contact us.

Sincerely,



ISO Certified Vibration Analyst, Category III



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