

QualiTest . Diagnostics

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June 1, 2021

General Recycling Subject: May vibration survey

Most of the machines surveyed were found to be in good condition with the exception of the following: Shedder went down during our survey, so we only got one point of data on this unit.

QualiTest® uses a four-step rating system for defects.

<u>Class I:</u> Defect is present, but effect on reliability is not clear; no immediate action is required. Continue to normally monitor.

<u>Class II:</u> Defect (s) present that may cause problem in long term (2-6 months). Repair during normal maintenance scheduling. Continue to monitor.

<u>Class III</u>; 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.

<u>Class IV;</u> 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.

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,

win the mouse

ISO Certified Vibration Analyst, Category III



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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 ************************************				
	10			
SHREDDER – SHREDDER	(2)	-May-21)		
MOH	227 IT/Sec	114 C c		
MOH	.32/ IN/Sec	.114 G-S		
CYCLONE - CYCLONE	(2)	6-May-21)		
	OVERALL LEVEL	1K-20KHz		
MOH	.159 In/Sec	.754 G-s		
MIH	.200 In/Sec	.725 G-s		
MIA	.161 In/Sec	.614 G-s		
M3 - MAG DRIM	(26-May-21)			
	OVERALL LEVEL	1K-20KH7		
MOH	121 In/Sec	187 G-s		
мтн	094 Tn/Sec	219 G-s		
MIA	.123 In/Sec	.045 G-s		
GIH	.089 In/Sec	.083 G-s		
GOH	.093 In/Sec	.049 G-s		
IDB	.068 In/Sec	.0041 G-s		
ODB	.064 In/Sec	.0019 G-s		
	(0)	(Marco 01)		
NUMBER II - NUMBER II		1 2020-		
NOT	COO IT (COO	IK-ZUKHZ		
MOH	.620 In/Sec	.295 G-S		
MIH	.801 III/Sec	.231 G-S		
MIA FTU	510 IN/Sec	.240 G-S		
ETA	339 Tn/Sec	701 G-s		
EOH	.234 In/Sec	.050 G-s		
SAIRCOMP - NEW SEPARATO	R SOUTH AIR COMP (20	6-May-21)		
	OVERALL LEVEL	1K-20KHz		
MOH	.090 In/Sec	.118 G-s		
MIH	.088 In/Sec	.601 G-s		
MIA	.094 In/Sec	.872 G-s		
EIH	.083 In/Sec	.579 G-s		
EIA	.069 In/Sec	.628 G-s		
EOH	.051 In/Sec	.369 G-s		
NAIRCOMP - NEW SEPARATO	R NORTH AIR COMP (20	6-May-21)		

	OVERALL LEVEL	1K-20KHz
MOH	.144 In/Sec	.257 G-s
MIH	.118 In/Sec	1.088 G-s
MIA	.121 In/Sec	1.793 G-s
EIH	.137 In/Sec	.505 G-s
EIA	.115 In/Sec	.810 G-s
EOH	.147 In/Sec	.479 G-s

Clarification Of Vibration Units:

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