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September 5, 2024

Nucor General Recycling Subject: September vibration survey

Most of the machines surveyed were found to be in good condition except for the following.

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 Nucor General Recycling. If there are any comments or questions, do not hesitate to contact us.

Sincerely,

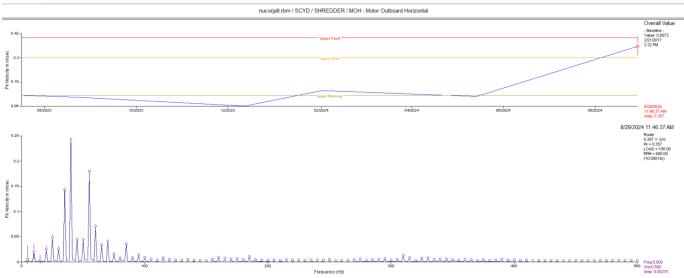
win W. Marcuell

ISO Certified Vibration Analyst, Category III



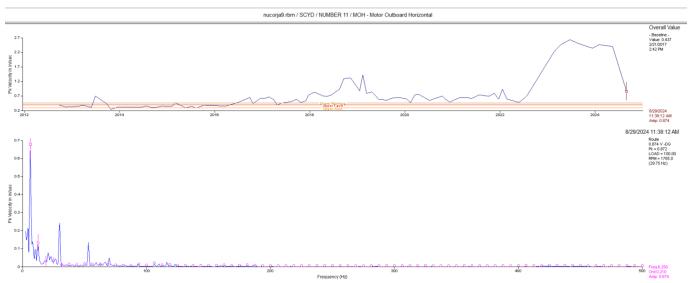
QualiTest Diagnostics Cell: 901-486-4565 Email: <u>kwilliam@gohispeed.com</u>

Defects



Shredder

Motor has increased overall vibration. Peaks in MOH spectrum (ODE) show ½ harmonics with a 4 x rpm vibration. ½ harmonics typically indicate fit type mechanical looseness/wear. Check driveshaft, shredder rotor, and indexer for signs of fit looseness. Inspect unit soon. Rated as a **CLASS II** defect.



Conveyor 11

Overall vibration is lower since last survey but still remains above alarm level. Vib appears to be at a low frequency of 6 Hz. This may be belt frequency or output frequency. Ensure sheaves are aligned properly. Ensure conveyor shaft or gear output shaft is not bent. Gearbox data also shows some signs of internal wear. Rated as a **CLASS II** defect.

Database: nucorja9.rbm Station: Scrap Yard

SHREDDER - SHREDDER (29-Aug-24) MOH .357 IN/Sec .060 MOV .254 In/Sec .039 G-s MIV .265 In/Sec .176 G-s MIH .339 In/Sec .123 G-s MIA .274 In/Sec .123 G-s MIA .274 In/Sec .266 G-s CYCLONE (29-Aug-24) OVERALL LEVEL IK-20KHz MOH .108 In/Sec .366 G-s MIH .207 In/Sec .986 G-s MIA .260 In/Sec .141 G-s EOH .145 In/Sec .141 G-s EOH .145 In/Sec .142 G-s MIA .063 In/Sec .239 G-s MIH .014 In/Sec .297 G-s MIA .063 In/Sec .210 G-s GIH .035 In/Sec .014 G-s GDB .030	MEASUREMENT POINT	OVERAL	L LEVEL HFD	/ VHFD	
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OVERALL LEVEL IR-20KHz MOH .357 In/Sec .060 C-s MOV .254 In/Sec .176 C-s MIV .265 In/Sec .176 C-s MIA .274 In/Sec .123 C-s MIA .274 In/Sec .266 C-s CYCLONE - CYCLONE (29-Aug-24) OVERALL LEVEL IK-20KHz MOH .108 In/Sec .366 C-s MIA .207 In/Sec .986 C-s MIA .200 In/Sec .222 C-s MIA .201 In/Sec .122 C-s MIA .201 In/Sec .122 C-s MIA .201 In/Sec .122 C-s MIA .003 In/Sec .123 G-s MIA .020 In/Sec .122 C-s MOH .014 In/Sec .122 C-s MOH .015 In/Sec .123 G-s MIA .020 In/Sec .029 G-s MIA .030 In/Sec .0104 G-s GIH .031 In/Sec .0104 G-s GIH .032 In/Sec .014 G-s<					
MOH .357 In/Sec .060 G-s MOV .254 In/Sec .039 G-s MIV .265 In/Sec .176 G-s MIH .339 In/Sec .123 G-s MIA .274 In/Sec .266 G-s CYCLONE - CYCLONE (29-Aug-24) OVERALL LEVEL 1K-20KHz MOH .108 In/Sec .366 G-s MIH .207 In/Sec .986 G-s MIA .260 In/Sec .626 G-s EIH .142 In/Sec .141 G-s EOH .145 In/Sec .122 G-s M3 - MAG DRUM (29-Aug-24) OVERALL LEVEL 1K-20KHz MOH .083 In/Sec .104 G-s GIH .035 In/Sec .052 G-s GOH .036 In/Sec .014 G-s ODB .026 In/Sec .077 G-s IDB .030 In/Sec .014 G-s ODB .026 In/Sec .046 G-s MIA .668 In/Sec .1468 G-s MIA .668 In/Sec .1468 G-s MIA .668 In/Sec .416 G-s	SHREDDER - SHRE		-		
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OVERALL LEVEL IR-20KHz MOH .108 In/Sec .366 G-s MIH .207 In/Sec .986 G-s MIA .260 In/Sec .626 G-s EIH .142 In/Sec .141 G-s EOH .145 In/Sec .122 G-s M3 - MAG DRUM (29-Aug-24) OVERALL LEVEL IK-20KHz MOH .083 In/Sec .239 G-s MIH .074 In/Sec .297 G-s MIA .063 In/Sec .104 G-s GIH .035 In/Sec .052 G-s GOH .036 In/Sec .014 G-s ODB .026 In/Sec .014 G-s ODB .026 In/Sec .014 G-s MIH .030 In/Sec .014 G-s MDH .030 In/Sec .014 G-s ODB .026 In/Sec .014 G-s MIA .668 In/Sec .468 C-s MIH .942 In/Sec .468 G-s MIA .668 In/Sec .416 G-s EIH .544 In/Sec .22.66 G-s	CYCLONE - CYCL	ONE	(29-Aug-24)		
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MIH .074 In/Sec .297 G-s MIA .063 In/Sec .104 G-s GIH .035 In/Sec .052 G-s GOH .036 In/Sec .077 G-s IDB .030 In/Sec .014 G-s ODB .026 In/Sec .014 G-s ODB .026 In/Sec .014 G-s NUMBER 11 (29-Aug-24) OVERALL LEVEL IK-20KHz MOH .874 In/Sec 1.468 G-s MIH .942 In/Sec 1.410 G-s MIA .668 In/Sec .416 G-s EIA .544 In/Sec 12.26 G-s EOH .314 In/Sec .481 G-s NAIRCOMP - NEW SEPARATOR NORTH AIR COMP (29-Aug-24) OVERALL LEVEL IK-20KHz MOH .066 In/Sec .320 G-s MIH .057 In/Sec .940 G-s MIH .074 In/Sec .099 G-s MIA .074 In/Sec .684 G-s MIA .074 In/Sec .684 G-s MIA .073 In/Sec .627 G-s	MOH				
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OVERALL LEVEL IK-20KHz MOH .874 In/Sec 1.468 G-s MIH .942 In/Sec 1.410 G-s MIA .668 In/Sec .416 G-s EIH .544 In/Sec 4.303 G-s EIA .884 In/Sec 12.26 G-s EOH .314 In/Sec .481 G-s NAIRCOMP - NEW SEPARATOR NORTH AIR COMP (29-Aug-24) OVERALL LEVEL 1K-20KHz MOH .066 In/Sec .320 G-s MIH .057 In/Sec .940 G-s MIA .074 In/Sec 1.099 G-s EIH .044 In/Sec .684 G-s EIA .051 In/Sec .541 G-s EOH .073 In/Sec .827 G-s		.026	In/Sec .004!	5 G-s	
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NAIRCOMP - NEW SEPARATOR NORTH AIR COMP (29-Aug-24) OVERALL LEVEL 1K-20KHz MOH .066 In/Sec .320 G-s MIH .057 In/Sec .940 G-s MIA .074 In/Sec 1.099 G-s EIH .044 In/Sec .684 G-s EIA .051 In/Sec .541 G-s EOH .073 In/Sec .827 G-s Arification Of Vibration Units:		.314	In/Sec .48	1 G-s	
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arification Of Vibration Units:					
	EOH	.073	In/Sec .82	7 G-s	
Acc $>$ G-s RMS Vel $>$ In/Sec PK					