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October 13, 2023

Josh Cavitt Sonoco Memphis, TN

The following is a summary of findings from the quarterly vibration survey performed at your facility. Please let us know if there are any questions or comments.

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.

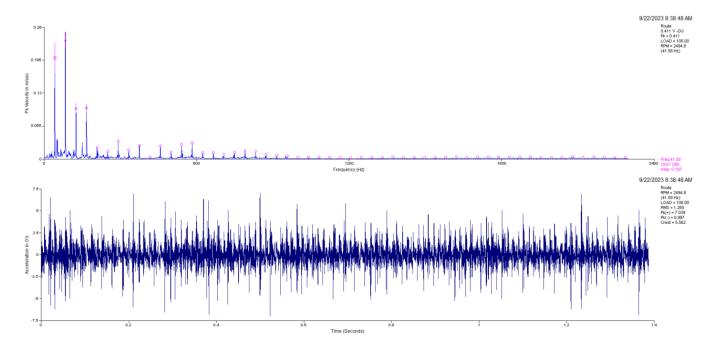
<u>Class II:</u> Defect (s) present that may cause problem in long term (2-6 months). Repair during normal maintenance scheduling. Continue to monitor.

<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.

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

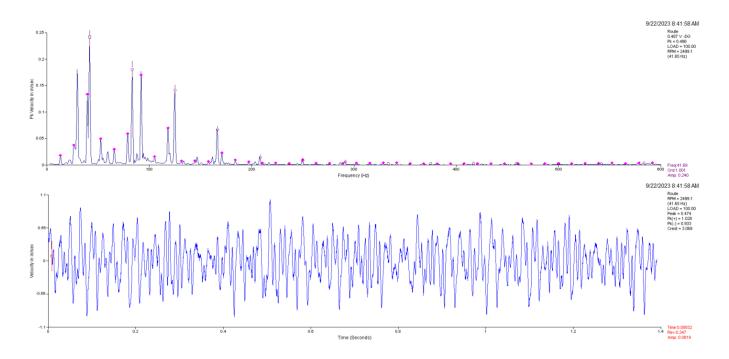
Hi-Speed **Industrial Service** tests and inspects industrial machinery and equipment and makes recommendations concerning maintenance and repairs based on its experience in the field of industrial repair and maintenance. The information contained herein is provided as an opinion only, not as a quaranty or warranty of the matters discussed herein.

Defects



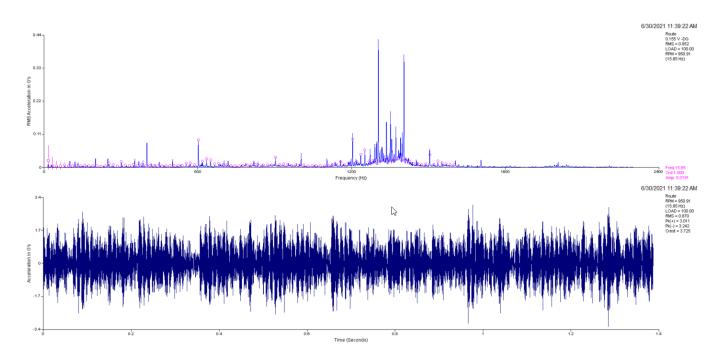
CLASS II P8 Oven Fan

Fan inboard bearing data shows several fan rpm harmonics present in the fan bearing data. This is an indication of mechanical fit looseness. Inspect fan bearings for looseness as time allows. Ensure fan shaft does not have excessive run out.

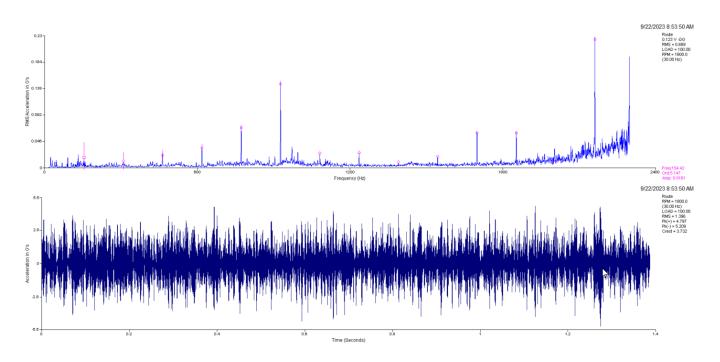


CLASS II P10 Oven Fan

Fan inboard vertical bearing data shows several fan rpm harmonics present in the fan bearing data. There are also sub-synchronous peaks present which may be belt frequencies. This is an indication of mechanical fit looseness and belt/sheaves issues. Inspect fan bearings for looseness as time allows. Ensure fan shaft does not have excessive run out and ensure belts and sheaves are in good shape.

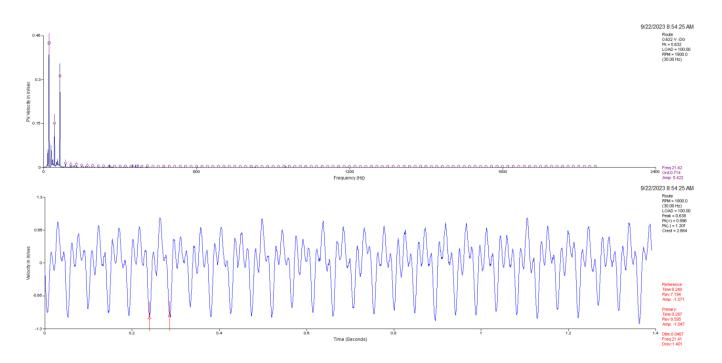


CLASS II Zone 2 Supply Fan
Fan outboard (ODE) bearing data shows some high frequency non-synchronous vibration. This type of vibration indicates bearing defects. Check fan bearings for defects/wear as time allows.



CLASS II Zone 5 Supply Fan

Fan inboard (DE) bearing data shows non-synchronous harmonics in the spectrum. This is an indication of bearing defects. Inspect fan bearings for defects and wear as scheduling allows.



CLASS III Zone 6 Supply Fan

Sub-synchronous vibrations are present in the motor. These peaks are likely harmonics of either fan speed or belts. For now, inspect sheaves for wear, face run-out, and misalignment. Ensure belts are in good order and properly tightened. Inspect motor base/structure for looseness also.

Abbreviated Last Measurement Summary

Database: sonoco.rbm Station: COATER Route No. 1: SONOCO

MEASUREMENT PO		OVERALL LE	VEL 	HFD / VHFD
VACPUMP1 - V	ACUUM PUMP 1		(22-Se	n-23)
		OVERALL L		
мон		130 Tn/	EVEL 1 Sec	523 G-s
MOV			Sec	
		103 III/	Sec	.474 G-S .692 G-S
MIH		.121 In/		
MIV		.1/9 ln/:	sec	.775 G-s
MIA		.255 In/	Sec	.064 G-s
EIH		.084 In/	Sec	.330 G-s
EIV		.073 In/s	Sec	.280 G-s
EIA			Sec	
EOH		.093 In/	Sec	.149 G-s
EOV		.082 In/	Sec	.286 G-s
VACPUMP2 - V	VACUUM PUMP 2		(22-Se	p-23)
		OVERALL L	EVEL 1 Sec 1	- 20 KHz
MOH		.270 In/s	Sec 1	.083 G-s
MOV		.178 In/	Sec 1	.386 G-s
MIH				
MIV		.151 In/	Sec 1	.270 G S
MIA		.151 III/.	Sec 1 Sec	.307 G-S
		.354 In/	sec	.701 G-S
EIH		.162 ln/s	Sec	.180 G-s
EIV		.121 In/	Sec Sec	.385 G-s
EIA		.067 In/	Sec	.343 G-s
EOH			Sec	
EOV		.127 In/	Sec	.209 G-s
CTPUMP1 - C	COOLING TOWER	PUMP 1	(22-Se	p-23)
		OVERALL L		
MOH		.027 In/	Sec	.307 G-s
MOV		.071 In/	Sec	.248 G-s
MIH			Sec	
MIV		040 Tn/	Sec	185 G-s
MIA		066 Tn/	Sec Sec	.103 G s
EIH		.000 III/	Sec	.002 G-S
		.03/ III/i	sec	.248 G-s
EIV		.039 In/: .055 In/:	sec	
EIA		.055 In/	Sec	.382 G-s
CTPUMP2 - C	COOLING TOWER			
		OVERALL L	EVEL 1	- 20 KHz
MOH			Sec	.203 G-s
MOV		.105 In/	Sec	.494 G-s
MIH		.035 In/s	Sec	.211 G-s
MIV		.090 In/s	Sec	.402 G-s
MIA		.046 In/		.225 G-s
EIH		.044 In/		.211 G-s
EIV		.072 In/		.323 G-s
EIA		.048 In/		.954 G-s
D0011111111111111111111111111111111111			/00 T	021
P80VENFAN - I	OVEN FAN		(22-Se	_
		OVERALL L		- 20 KHz
MOH		.171 In/s		.058 G-s
VOM		.169 In/		.084 G-s
MIH		.189 In/		.049 G-s
VIM		.210 In/		.100 G-s
EIH		.411 In/	Sec 1	.236 G-s
EIV		.491 In/	Sec 1	.265 G-s

EIA			.267	In/Sec	.610 G	-s
EOH			.244	In/Sec	1.119 G	-s
EOV	•		.246	In/Sec	1.145 G	-s
EOA			.334	In/Sec	.577 G	
201.	_		.551	111, 500		
P100VENFAN	_ D10 (NEN EAN			(22-Sep-23)	
PIOOVENPAN	- F10 (VEN FAN	OTTEDAT		•	T211 _
				L LEVEL		
MOH				In/Sec	.038 G	_
MOV	•			In/Sec	.034 G	-s
MIH			.203	In/Sec	.020 G	-s
MIV	•		.319	In/Sec	.067 G	-s
EIH			.176	In/Sec	.261 G	-s
EIV	•			In/Sec	.229 G	_
EIA				In/Sec	.152 G	
				•		
EOH				In/Sec	.458 G	
EOV				In/Sec	.192 G	
EOA	•		.476	In/Sec	.330 G	3-s
MAINXHAUST	- MAIN	EXHAUST 1	FAN		(22-Sep-23)	
			OVERAI	L LEVEL	1 - 20	KHz
MOH			.239	In/Sec	.397 G	
MOV			352	In/Sec	.400 G	_
				In/Sec	.126 G	
MIH				•		
MIV				In/Sec	.225 G	
MIA	•			In/Sec	.034 G	
EIH				In/Sec	.466 G	-s
EIV	•		.297	In/Sec	.813 G	-s
EOH				In/Sec	.327 G	
EOV				In/Sec	.686 G	
E01			.130	III/ Bec	.000 6	, 3
ZONE1FAN	_ ZONE	1 CIIDDIV	EAN		(22-Sep-23)	
ZONETEAN	- ZONE	I SUPPLI			(22-sep-23) 1 - 20	T211 _
MOH				In/Sec		
MOV	•			In/Sec	.614 G	-s
MIH			.225	In/Sec	.746 G	3-s
MIV	•		.216	In/Sec	.867 G	3-s
MIV	•		.216	In/Sec	.867 G	3-s
MIV ZONE2FAN		2 SUPPLY				3-s
		2 SUPPLY	FAN	1	(22-Sep-23)	
ZONE2FAN	- ZONE	2 SUPPLY	FAN OVERAI	LL LEVEL	(22-Sep-23) 1 - 20	KHz
ZONE2FAN MOH	- ZONE	2 SUPPLY	FAN OVERAI .226	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G	KHz 3-s
ZONE2FAN MOH MOV	- ZONE	2 SUPPLY	FAN OVERAI .226 .251	L LEVEL In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G	KHz 3-s 3-s
ZONE2FAN MOH MOV MIH	- ZONE	2 SUPPLY	FAN OVERAL .226 .251 .256	L LEVEL In/Sec In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G	KHz ;-s ;-s ;-s
ZONE2FAN MOH MOV	- ZONE	2 SUPPLY	FAN OVERAL .226 .251 .256	L LEVEL In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G	KHz ;-s ;-s ;-s
ZONE2FAN MOH MOV MIH	- ZONE	2 SUPPLY	FAN OVERAL . 226 . 251 . 256 . 157	L LEVEL In/Sec In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G	KHz -s -s -s
ZONE2FAN MOH MOV MIH MIV	- ZONE	2 SUPPLY	FAN OVERAI .226 .251 .256 .157 .315	LL LEVEL In/Sec In/Sec In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G	KHz
ZONE2FAN MOH MOV MIH MIV MIA EIH	- ZONE	2 SUPPLY	FAN OVERAI .226 .251 .256 .157 .315 .233	LL LEVEL In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G	KHz s s s s s
ZONE2FAN MOH MOV MIH MIV MIA EIH	- ZONE	2 SUPPLY	FAN OVERAL .226 .251 .256 .157 .315 .233 .169	L LEVEL In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G	KHz s s s s s
ZONE2FAN MOH MOV MIH MIV MIA EIH	- ZONE	2 SUPPLY	FAN OVERAL .226 .251 .256 .157 .315 .233 .169	LL LEVEL In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G	KHz s s s s s
ZONE2FAN MOW MIH MIV MIA EIH EIV	- ZONE		FAN OVERAL .226 .251 .256 .157 .315 .233 .169 .223	IL LEVEL In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .170 G .187 G .194 G .038 G	KHz s s s s s
ZONE2FAN MOH MOV MIH MIV MIA EIH	- ZONE		FAN OVERAL .226 .251 .256 .157 .315 .233 .169 .223 FAN	IL LEVEL In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .170 G .187 G .194 G .038 G	KHz G-s G-s G-s G-s G-s G-s
ZONE2FAN MOH MOV MIH MIV MIA EIH EIV EIA	- ZONE		FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI	LL LEVEL In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .170 G .187 G .194 G .038 G	KHZ G-s G-s G-s G-s G-s G-s G-s
ZONE2FAN MOH MOV MIH MIV MIA EIH EIV EIA ZONE3FAN MOH	- ZONE		FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235	LL LEVEL In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G	KHZ
ZONE2FAN MOH MOV MIH MIV MIA EIH EIV EIA	- ZONE		FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .170 G .187 G .194 G .038 G	KHZ
ZONE2FAN MOH MOV MIH MIV MIA EIH EIV EIA ZONE3FAN MOH	- ZONE		FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929	LL LEVEL In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G	KHz G-s G-s G-s G-s G-s G-s G-s G-s
ZONE2FAN MOH MOV MIH MIV MIA EIH EIV EIA ZONE3FAN MOH MOV	- ZONE		FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G	KHz G-s G-s G-s G-s G-s G-s G-s G-s
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MOV MIH MIV	- ZONE		FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383 .181	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G	KHz s s s s s s s s
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MOV MIH MIV MIX	- ZONE		FAN OVERAL .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAL .235 .929 .383 .181 .889	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G	KHz s s s s s s s
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MOV MIH MIV MIA EIH	- ZONE		FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383 .181 .889 .157	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G	KHz
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MOV MIH MIV MIA EIH EIV EIX	- ZONE		FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383 .181 .889 .157 .242	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .577 G .127 G	KHz
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MOV MIH MIV MIA EIH EIV EIA	- ZONE		FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383 .181 .889 .157 .242 .246	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .577 G .127 G	KHz
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MOV MIH MIV MIA EIH EIV EIX	- ZONE		FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383 .181 .889 .157 .242 .246	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .577 G .127 G	KHz
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MOV MIH MIV MIA EIH EIV EOH EOV	- ZONE	3 SUPPLY	FAN OVERAL .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAL .235 .929 .383 .181 .889 .157 .242 .246 .159	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .577 G .127 G .927 G	KHz
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MOV MIH MIV MIA EIH EIV EIA	- ZONE	3 SUPPLY	FAN OVERAL .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAL .235 .929 .383 .181 .889 .157 .242 .246 .159 FAN	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .377 G .127 G .927 G .334 G	KHz
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MOV MIH MIV MIA EIH EIV EOH EOV	- ZONE	3 SUPPLY	FAN OVERAL .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAL .235 .929 .383 .181 .889 .157 .242 .246 .159 FAN	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .577 G .127 G .927 G	KHz
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MOV MIH MIV MIA EIH EIV EOH EOV	- ZONE	3 SUPPLY	FAN OVERAL .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAL .235 .929 .383 .181 .889 .157 .242 .246 .159 FAN OVERAL	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .377 G .127 G .927 G .334 G	KHz
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MOV MIH MIV MIA EIH EIV EOH EOV ZONE4FAN	- ZONE	3 SUPPLY	FAN OVERAL .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAL .235 .929 .383 .181 .889 .157 .242 .246 .159 FAN OVERAL .246 .159	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .377 G .127 G .927 G .334 G	KHz
ZONE2FAN MOH MOV MIH MIV MIA EIH EIV EIA ZONE3FAN MOH MOV MIH EIV EOH EOV ZONE4FAN MOH MOV	- ZONE	3 SUPPLY	FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383 .181 .889 .157 .242 .246 .159 FAN OVERAI .225 .246 .228	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .377 G .127 G .927 G .334 G	KHZ
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MIV MIA EIH EIV EOH EOV ZONE4FAN MOH MOV MIH	- ZONE	3 SUPPLY	FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383 .181 .889 .157 .242 .246 .159 FAN OVERAI .242 .248 .355	LL LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .377 G .127 G .927 G .334 G	KHZ
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MIV MIA EIH EIV EOH EOV ZONE4FAN MOH MOV MIH MIV	- ZONE	3 SUPPLY	FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383 .181 .889 .157 .242 .246 .159 FAN OVERAI .242 .288 .355 .271	L LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .377 G .127 G .927 G .334 G	KHZ
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MIV MIA EIH EIV EOH EOV ZONE4FAN MOH MOV MIH MIV EIH MIV EIH MIV EIH MIV EIH MOH	- ZONE	3 SUPPLY	FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383 .181 .889 .157 .242 .246 .159 FAN OVERAI .242 .248 .355 .271 .299	L LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .377 G .127 G .927 G .334 G (22-Sep-23) 1 - 20 .197 G .146 G .155 G .158 G .268 G	KHZ
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MIV MIA EIH EIV EOH EOV ZONE4FAN MOH MOV MIH MIV EIH MIV EIH EIV EIH EIV EOH	- ZONE	3 SUPPLY	FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383 .181 .889 .157 .242 .246 .159 FAN OVERAI .242 .248 .355 .271 .299 .088	L LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .577 G .127 G .927 G .334 G	KHZ
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MIV MIA EIH EIV EOH EOV ZONE4FAN MOH MOV MIH MIV EIH MIV EIH MIV EIH MIV EIH MOH	- ZONE	3 SUPPLY	FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383 .181 .889 .157 .242 .246 .159 FAN OVERAI .242 .248 .355 .271 .299 .088 .139	L LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .377 G .127 G .927 G .334 G (22-Sep-23) 1 - 20 .197 G .146 G .155 G .158 G .268 G	KHZ
ZONE2FAN MOH MOV MIH MIV EIH EIV EIA ZONE3FAN MOH MIV MIA EIH EIV EOH EOV ZONE4FAN MOH MOV MIH MIV EIH MIV EIH EIV EIH EIV EOH	- ZONE	3 SUPPLY	FAN OVERAI .226 .251 .256 .157 .315 .233 .169 .223 FAN OVERAI .235 .929 .383 .181 .889 .157 .242 .246 .159 FAN OVERAI .242 .248 .355 .271 .299 .088 .139	L LEVEL In/Sec	(22-Sep-23) 1 - 20 .230 G .265 G .324 G .346 G .170 G .187 G .194 G .038 G (22-Sep-23) 1 - 20 .345 G .203 G .495 G .358 G .279 G .577 G .127 G .927 G .334 G	KHZ

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ZONE5FAN - ZONE 5 SUPPLY FAN
                                    (22-Sep-23)
                               OVERALL LEVEL 1 - 20 KHz
.091 In/Sec .214 G-s
.110 In/Sec .226 G-s
       MOH
       MOV
                                                  .270 G-s
                                .103 In/Sec
       MIH
                                .119 In/Sec .260 G-s
.123 In/Sec 1.980 G-s
.062 In/Sec 1.591 G-s
       MIV
       EIH
       EIV
ZONE6FAN - ZONE 6 SUPPLY FAN
                                         (22-Sep-23)
                              OVERALL LEVEL 1 - 20 KHz
                                                 .092 G-s
                                .632 In/Sec
       MOH
                                .222 In/Sec
                                                 .065 G-s
       MOV
                                                 .073 G-s
                                .474 In/Sec
       MIH
       MIV
                                .245 In/Sec
                                                   .080 G-s
                                                 .063 G-s
                                .460 In/Sec
       MIA
                                .141 In/Sec
                                                   .307 G-s
       EIH
                                .331 In/Sec
       EIV
                                                   .745 G-s
                                .219 In/Sec
                                                  .368 G-s
       EOH
                                .356 In/Sec
       EOV
                                                  .282 G-s
EXHAUSTFAN - EXHAUST FAN
                                           (22-Sep-23)
                               OVERALL LEVEL 1 - 20 KHz
                                .218 In/Sec
                                                 .168 G-s
       MOH
                                                  .122 G-s
       MOV
                                .214 In/Sec
                                .237 In/Sec
                                                 .144 G-s
       MIH
                                .226 In/Sec
                                                 .209 G-s
       MIV
                                                  .023 G-s
       MIA
                                .278 In/Sec
COOLFAN A - COOLING FAN A
                                           (22-Sep-23)
                               OVERALL LEVEL 1 - 20 KHz
.366 In/Sec .257 G-s
.104 In/Sec .245 G-s
                                                 .257 G-s
.245 G-s
       MOH
       MOV
                                .358 In/Sec
       MIH
                                                  .340 G-s
                                .119 In/Sec
                                                 .407 G-s
       VIM
                                                .407 G S
.297 G-s
.234 G-s
.187 G-s
.119 G-s
       MIA
                                .191 In/Sec
                                .126 In/Sec
       EIH
                                .109 In/Sec
       EIV
                                .108 In/Sec
       EIA
                                .120 In/Sec
                                                 .274 G-s
       EOH
                                .160 In/Sec
       EOV
                                                   .383 G-s
                                .107 In/Sec
                                                   .097 G-s
       EOA
502SPNBLWR - 502 SPENCER BLOWER
                                           (22-Sep-23)
                              OVERALL LEVEL 1 - 20 KHz
                                                .036 G-s
                                .198 In/Sec
.087 In/Sec
       MOH
                                                   .154 G-s
       MOV
                                                  .116 G-s
       MIV
                                .132 In/Sec
                                      (22-Sep-23)
ALNESNCBLW - A LINE SPENCER BLOWER
                               OVERALL LEVEL 1 - 20 KHz
                                .128 In/Sec
                                                 .154 G-s
       MOH
       MOV
                                .254 In/Sec
                                                 .089 G-s
                                                  .121 G-s
       MIH
                                .234 In/Sec
DLNESNCBLW - D LINE SPENCER BLOWER (22-Sep-23)
                               OVERALL LEVEL 1 - 20 KHz
                                .210 In/Sec .026 G-s
.209 In/Sec .067 G-s
.209 In/Sec .076 G-s
.197 In/Sec .154 G-s
       MOH
       MOV
       MIH
       MIV
```

Clarification Of Vibration Units:
Acc --> G-s RMS

Vel --> In/Sec PK

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

Sincerely,

ISO Certified Vibration Analyst, Category III

Kevin W. Mozewell



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