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January 21, 2025

North Shelby Plant Millington, TN

The following is a summary of findings from the January 2025 monthly vibration survey at the North Shelby site.

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.

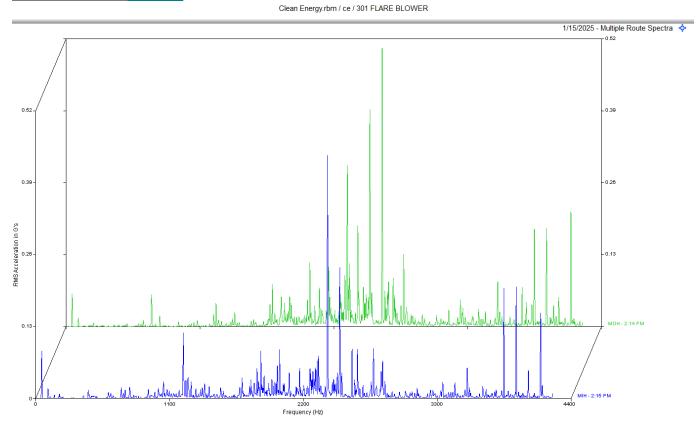
<u>Class III</u>: Defect (s) present that may cause failure in short term (less than 2 months). This should be addressed as soon as practical, with a high maintenance priority. Increase monitoring frequency.

<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.

Defects

301 Flare Blower CLASS II



Observations:

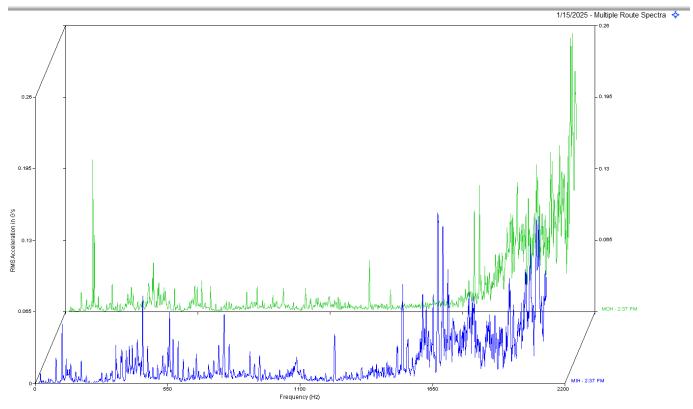
Data above is the motor outboard horizontal. There appear to be several harmonics of a non-synchronous frequency present in the spectra that line up with outer race defect fundamental and its harmonics. This is indication of bearing defects in the motor.

Recommendations:

Motor should be replaced in the next few months. Still low level at this time. We are monitoring this closely.

Rinse Compressor CLASS II

Clean Energy.rbm / ce / RINSE COMPRESSOR



Observations:

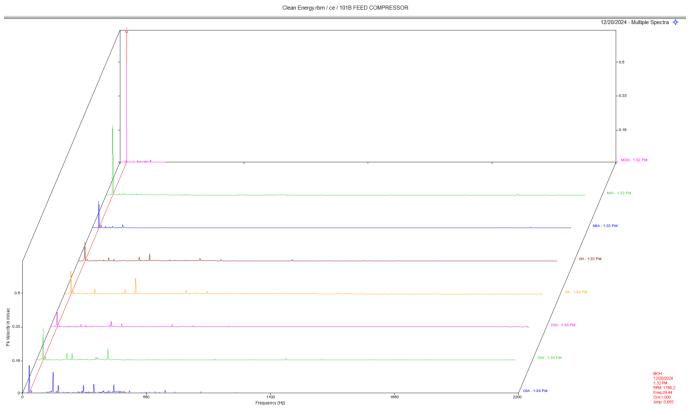
Drive motor data shows some high frequency vibration. Motor is also making a squealing type noise. The last reading showed amplitude to be 2.1 g's on average. Spectral data shows a noise floor 1500-5000 hz range. Peak to peak waveform amplitude is 16 to 18 g's.

Recommendations:

Vibration characteristics indicate a lube issue or bearing wear. Motor likely needs attention during next extended shutdown. We are monitoring this closely. Rated as a **CLASS II** defect for now.

Unit was down this survey; however, the following still applies:

Feed Compressor B CLASS I



Observations:

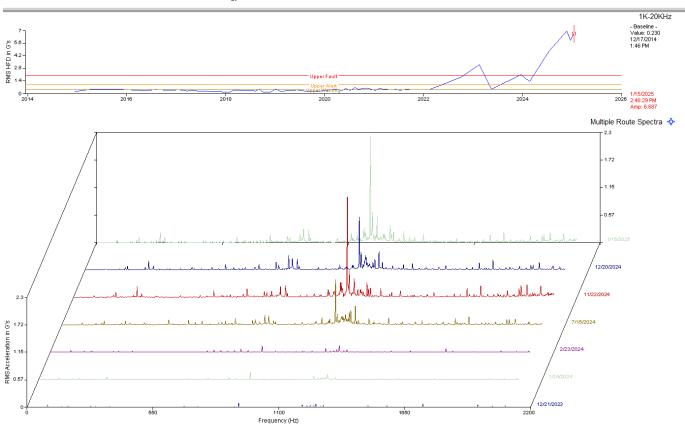
New motor data still shows motor to have elevated 1 x rpm vibration.

Recommendations:

The 1 x rpm vibration may be due to process load and or imbalance. There could also be an issue with the motor side of the coupling. It is recommended to run the motor solo, if possible, to help diagnose issue. It may also be necessary to recheck alignment, fasteners, and check couplings at next opportunity.

Product Compressor C CLASS III





Observations:

Trend data shows increase in G's in motor DE data. Spectral waterfall of motor DE shows an increase in nonsynchronous peaks over the past few surveys.

Recommendations:

Data indicates defects in motor bearings. Motor will need attention in the next couple of months.

Database:	Clean Energy.rbm
Area:	millington plant

MEASUREMENT POINT	OVERALL LEVEL	hfd / Vhfd
301 FLARE - 301 FLARE BLOW	1ED (16	-Jan-25)
SUI FLARE - SUI FLARE BLOW	OVERALL LEVEL	
MOH	.113 In/Sec	
MOV	269 Tn/Sec	.307 G-s
MIH	.269 In/Sec .156 In/Sec	.726 G-s
MIV	.161 In/Sec	.143 G-s
MIA	.134 In/Sec	
EIH	.289 In/Sec	.252 G-s
EIV	.088 In/Sec	.437 G-s
EIA	.057 In/Sec	
EOH	.208 In/Sec	.282 G-s
EOV	.208 In/Sec .088 In/Sec	.077 G-s
RINSE COMP - RINSE COMPRESS	SOR (15	-Jan-25)
	OVERALL LEVEL	
MOH	.146 In/Sec	4.291 G-s
M1P	.035 In/Sec	
MIH	.097 In/Sec	3.101 G-s
M2P	.040 In/Sec	0.101 0 0
MIA	.111 In/Sec	.370 G-s
IIH	.079 In/Sec	.840 G-s
IIA	.079 In/Sec .150 In/Sec	.170 G-s
IOH	.111 In/Sec	.602 G-s
OIH	.091 In/Sec	.858 G-s
OIA	.115 In/Sec	.200 G-s
ООН	.102 In/Sec	
VAC COMP - VACUUM COMPRES	SSOR (15	-Jan-25)
	OVERALL LEVEL	
MOH	.188 In/Sec	1.838 G-s
MIH	.143 In/Sec .068 In/Sec	1.122 G-s
MIA		
IIH	.121 In/Sec .051 In/Sec .100 In/Sec	.556 G-s
IIA	.051 In/Sec	.109 G-s 974 G-s
IOH		
OIH	.075 In/Sec	
OIA	.055 In/Sec	.183 G-s
ООН	.101 In/Sec	.630 G-s
101A COMP - 101A FEED COMP		-Jan-25)
	OVERALL LEVEL	1K-20KHz
MOH	.185 In/Sec	.221 G-s
MIH	.167 In/Sec	.278 G-s
MIA	.086 In/Sec	.343 G-s
IIH	.26/ In/Sec	1.341 G-s
IIA	.432 In/Sec	1.394 G-s
IOH	.309 In/Sec	1.135 G-s
OIH	.110 In/Sec	2.375 G-s
OIA	.286 In/Sec	
OOH	.144 In/Sec	1.100 G-s
HX132A FAN - HX132A GAS OII	COOLER FAN (15	-Jan-25)
	OVERALL LEVEL	1K-20KHz
EIH	.027 In/Sec	.029 G-s
EOH	.036 In/Sec	.037 G-s
451A PUMP - 451A VACCUM PU	IMP (1 F	-Jan-25)
JULI I OM JULY VACCOM PC	OVERALL LEVEL	-
MOH	.080 In/Sec	
non		,327 J-3

MOV	.087 In/Sec	.338 G-s
MIH	.117 In/Sec	.823 G-s
MIV	.151 In/Sec	.563 G-s
MIA	.151 In/Sec .077 In/Sec	.171 G-s
EIH		2.491 G-s
EIV	139 In/Sec	.271 G-s
EIA	.139 In/Sec .077 In/Sec	.494 G-s
EOH		.513 G-s
EOV	.147 In/Sec	
EOV	.147 117 Sec	.149 G-S
	23 WAG DUND OLL GOOL EAN	(15 Tom 05)
HX453A FAN - HX43	53A VAC PUMP OIL COOL FAN	
		1K-20KHz
MOH	.184 In/Sec	.237 G-s
MIH	.105 In/Sec	.072 G-s
451B PUMP - 451E		(15-Jan-25)
		1K-20KHz
MOH	.065 In/Sec	
MOV	.107 In/Sec	.150 G-s
MIH	.107 In/Sec .085 In/Sec	.363 G-s
MIV	.091 In/Sec	.185 G-s
MIA		.083 G-s
EIH	.255 In/Sec	.471 G-s
EIV		.215 G-s
EIA		.250 G-s
EOH	256 Tp/Soc	.598 G-s
EOV	.256 In/Sec .229 In/Sec	.196 G-s
EOV	.229 111/360	.190 G-S
	THE WAR DUND OUT COOL FAN	(15 Tom 05)
HX453B FAN - $HX43$	53B VAC PUMP OIL COOL FAN OVERALL LEVEL	
MOH	.176 In/Sec	
MIH	.127 In/Sec	.159 G-s
		<i></i>
451C PUMP - 4510		(15-Jan-25)
		1K-20KHz
MOH	.213 In/Sec	.529 G-s
MOH MOV	.213 In/Sec .159 In/Sec	
	.252 In/Sec	.698 G-s
MOV	.252 In/Sec	.698 G-s
MOV MIH	.252 In/Sec .193 In/Sec .071 In/Sec	.698 G-s .200 G-s .165 G-s
MOV MIH MIV	.252 In/Sec .193 In/Sec .071 In/Sec	.698 G-s
MOV MIH MIV MIA	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s
MOV MIH MIV MIA EIH	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec	.698 G-s .200 G-s .165 G-s
MOV MIH MIV MIA EIH EIV	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s
MOV MIH MIV MIA EIH EIV EIA	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s
MOV MIH MIV MIA EIH EIV EIA EOH	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec .148 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec .148 In/Sec .33C VAC FUMP OIL COOL FAN	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25)
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec .148 In/Sec .33C VAC PUMP OIL COOL FAN OVERALL LEVEL	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec .148 In/Sec .33C VAC PUMP OIL COOL FAN OVERALL LEVEL	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec .148 In/Sec .33C VAC FUMP OIL COOL FAN	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .140 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .178 In/Sec .130 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .140 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25)
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .140 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec O VACCUM PUMP OVERALL LEVEL	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .140 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .059 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .140 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .059 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH MOV MIH	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .140 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .059 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH MIH MOV MIH MIY	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .140 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .059 In/Sec .072 In/Sec .076 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH MIH MIV MIH	.252 In/Sec .193 In/Sec .071 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .072 In/Sec .072 In/Sec .076 In/Sec .035 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH MIH MIV MIA EIH	.252 In/Sec .193 In/Sec .071 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .072 In/Sec .072 In/Sec .076 In/Sec .035 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s .490 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH MIH MIV MIH	.252 In/Sec .193 In/Sec .071 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .070 In/Sec .072 In/Sec .075 In/Sec .076 In/Sec .159 In/Sec .136 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s .490 G-s .100 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH MIH MIV MIA EIH	.252 In/Sec .193 In/Sec .071 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .070 In/Sec .072 In/Sec .075 In/Sec .076 In/Sec .035 In/Sec .136 In/Sec .098 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s .490 G-s .100 G-s .108 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH MIH MIV MIA EIH EIV	.252 In/Sec .193 In/Sec .071 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .070 In/Sec .072 In/Sec .076 In/Sec .076 In/Sec .136 In/Sec .098 In/Sec .179 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s .490 G-s .100 G-s .108 G-s .902 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH MIH MIV MIA EIH EIV EIA	.252 In/Sec .193 In/Sec .071 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .070 In/Sec .072 In/Sec .075 In/Sec .076 In/Sec .159 In/Sec .136 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s .490 G-s .100 G-s .108 G-s .902 G-s
MOV MIH MIV MIA EIH EIV EIA EOH HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH MIH MIV MIA EIH EIV EIA EIH EIV EIA	.252 In/Sec .193 In/Sec .071 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .070 In/Sec .072 In/Sec .076 In/Sec .076 In/Sec .136 In/Sec .098 In/Sec .179 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s .490 G-s .100 G-s .108 G-s .902 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH MIH MIV MIA EIH EIV EIA EOH EOV	.252 In/Sec .193 In/Sec .071 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .101 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .070 In/Sec .072 In/Sec .076 In/Sec .076 In/Sec .136 In/Sec .098 In/Sec .179 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s .490 G-s .100 G-s .108 G-s .902 G-s .240 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH MIH MIV MIA EIH EIV EIA EOH EOV	.252 In/Sec .193 In/Sec .071 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .140 In/Sec .134 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .130 In/Sec .072 In/Sec .072 In/Sec .076 In/Sec .136 In/Sec .136 In/Sec .179 In/Sec .176 In/Sec .176 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s .490 G-s .100 G-s .108 G-s .240 G-s .240 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH 451D PUMP - 4511 MOH MIH MIV MIA EIH EIV EIA EOH EOV	.252 In/Sec .193 In/Sec .071 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .140 In/Sec .134 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .130 In/Sec .072 In/Sec .072 In/Sec .076 In/Sec .136 In/Sec .136 In/Sec .179 In/Sec .176 In/Sec .176 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s .490 G-s .100 G-s .108 G-s .240 G-s .240 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH MIH MV MIA EIH EIV EIA EOH EOV A511 MOH MIH MOV MIH MIH A510 FAN - 4511 MOH MOV MIH MIH A510 A511	.252 In/Sec .193 In/Sec .071 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .140 In/Sec .134 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .130 In/Sec .072 In/Sec .076 In/Sec .076 In/Sec .076 In/Sec .136 In/Sec .136 In/Sec .179 In/Sec .179 In/Sec .176 In/Sec .176 In/Sec .176 In/Sec .176 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s .490 G-s .100 G-s .108 G-s .902 G-s .240 G-s .240 G-s
MOV MIH MIV MIA EIH EIV EIA EOH MOH MIH 451D PUMP - 4511 MOH MIH MIV MIA EIH EIV EIA EOH HX453D FAN - HX45 MOH MIH	.252 In/Sec .193 In/Sec .071 In/Sec .071 In/Sec .162 In/Sec .140 In/Sec .140 In/Sec .134 In/Sec .134 In/Sec .134 In/Sec .148 In/Sec .148 In/Sec .130 In/Sec .130 In/Sec .130 In/Sec .072 In/Sec .076 In/Sec .076 In/Sec .076 In/Sec .136 In/Sec .136 In/Sec .179 In/Sec .179 In/Sec .176 In/Sec .176 In/Sec .176 In/Sec .176 In/Sec .176 In/Sec .176 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s .490 G-s .100 G-s .108 G-s .240 G-s .240 G-s
MOV MIH MIV MIA EIH EIV EIA EOH EOV HX453C FAN - HX45 MOH MIH A51D PUMP - 4511 MOH MIH EIV EIA EOH EIV HX453D FAN - HX45 MOH EIV EIA EOH EIV MIH	.252 In/Sec .193 In/Sec .071 In/Sec .162 In/Sec .162 In/Sec .140 In/Sec .140 In/Sec .134 In/Sec .134 In/Sec .134 In/Sec .138 In/Sec .130 In/Sec .130 In/Sec .130 In/Sec .072 In/Sec .072 In/Sec .076 In/Sec .076 In/Sec .136 In/Sec .136 In/Sec .179 In/Sec .176 In/Sec	.698 G-s .200 G-s .165 G-s .611 G-s .161 G-s .153 G-s .825 G-s .166 G-s (15-Jan-25) 1K-20KHz .400 G-s .257 G-s (15-Jan-25) 1K-20KHz .897 G-s .495 G-s 1.092 G-s .167 G-s .346 G-s .490 G-s .100 G-s .108 G-s .902 G-s .240 G-s .240 G-s

		OVERALL LEVEL	1K-20KHz	
MOH		.173 In/Sec	1.775 G-s	
MIH		.237 In/Sec	6.687 G-s	
MIA		.130 In/Sec	1.688 G-s	
IIH		.192 In/Sec	1.134 G-s	
IIA		.180 In/Sec	1.268 G-s	
IOH		.229 In/Sec	2.178 G-s	
OIH		.218 In/Sec	1.924 G-s	
OIA		.231 In/Sec	1.367 G-s	
OOH		.227 In/Sec	1.226 G-s	
HX507C FAN -	HX507C GAS COO	L FAN (15-Jan-25)	
		OVERALL LEVEL	1K-20KHz	
MOH		.177 In/Sec	.094 G-s	
MIH		.273 In/Sec	.096 G-s	
Clarification Of	Vibration Unit	ts:		
Acc>	G-s RMS			
Vel>	In/Sec PK			

As always, it has been a pleasure to serve North Shelby-Archaea Energy. If there are any comments or questions, do not hesitate to contact us.

Sincerely,

Kevin W. Maxwell

ISO Certified Vibration Analyst, Category III



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