



QualiTest® Diagnostics

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May 12th, 2025

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Tracy,

The following is a summary of findings from the quarterly vibration survey that was performed on May 12th, 2025.

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.

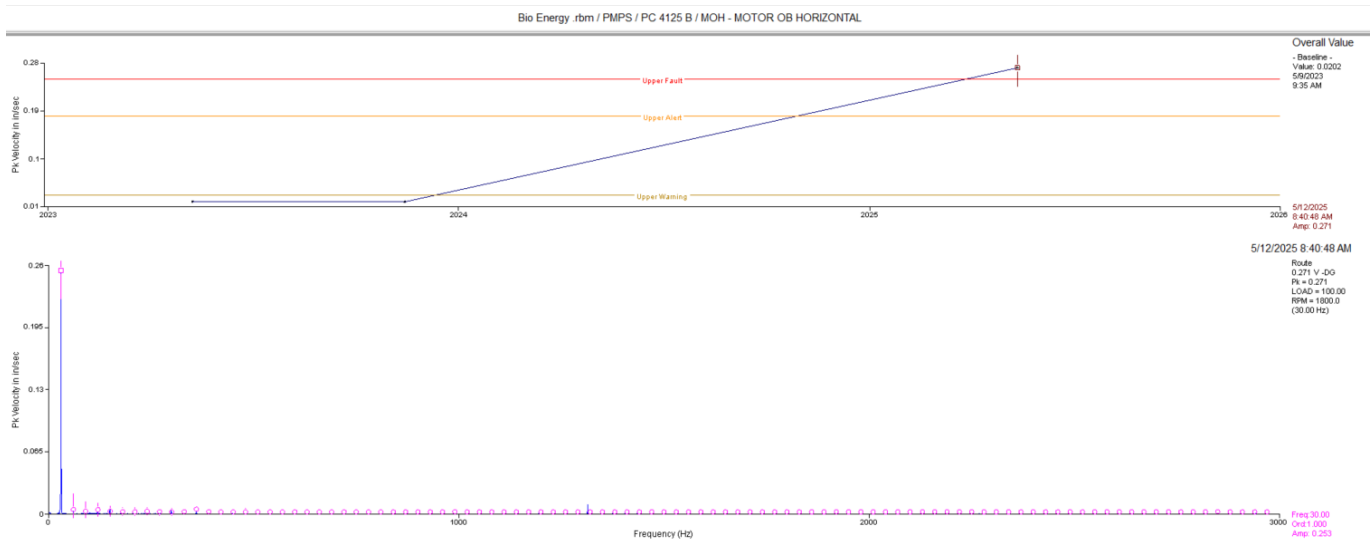
CLASS III: Defect (s) present that may cause failure in short term (less than 2 months). This should be addressed as soon as practical, with a high maintenance priority. Increase monitoring frequency.

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.

Defect Summary

PC 4125 B CLASS II



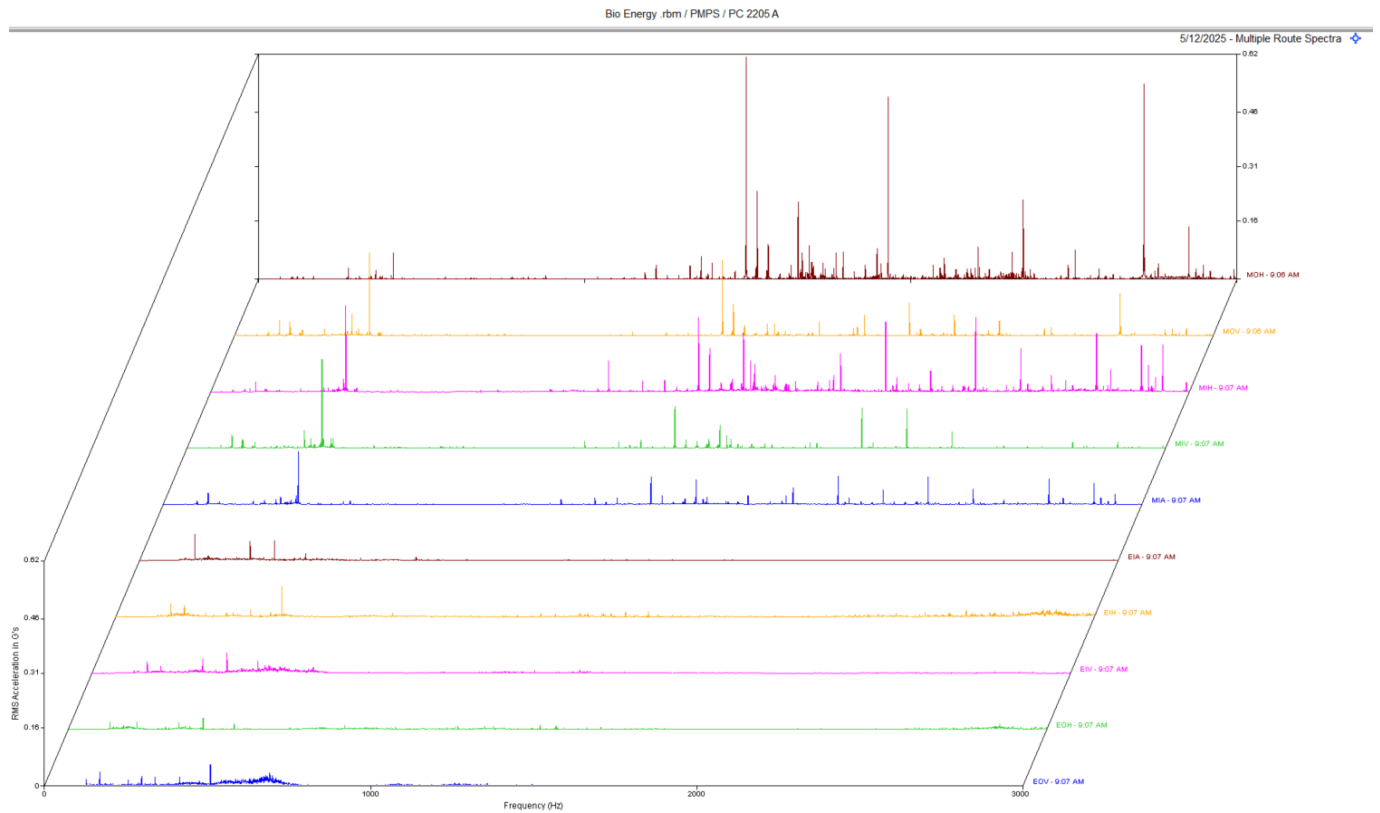
Observation:

Motor outboard horizontal data shows an increase in 1 x rpm vibration.

Recommendation:

Main base anchors at the motor end are loose and need to be tightened. This should lower the increased 1 x rpm vibration.

PC 2205 A CLASS I



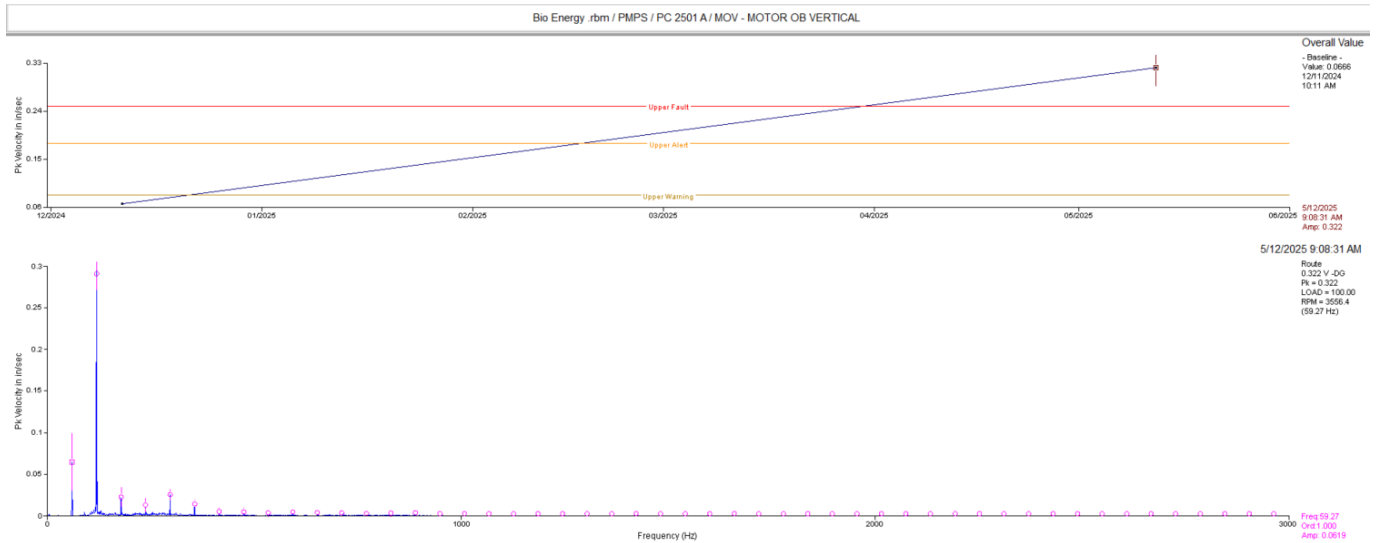
Observation:

Multi-point spectra shows peaks in motor data that are non-synchronous to motor rpm.

Recommendation:

Data suggests bearing issues in the motor. Check motor for bearing defects/we as scheduling allows.

PC 2501 A CLASS II



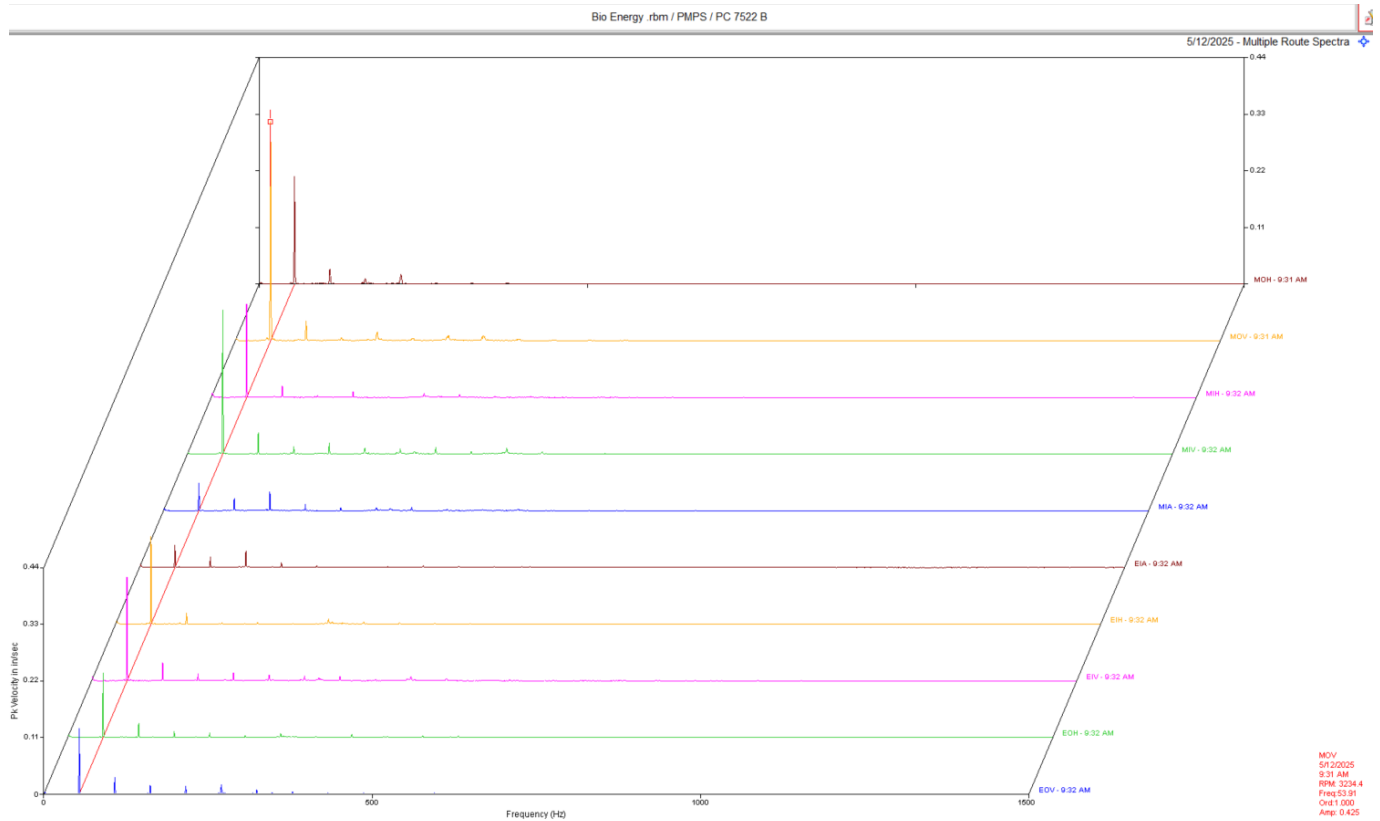
Observation:

Motor outboard vertical data shows increase in overall vibration. Spectral data shows a dominant 2 x rpm peak.

Recommendation:

Data suggests coupling and/or alignment issue. Check couplings for wear and ensure motor is aligned within specs.

PC 7522 B CLASS II



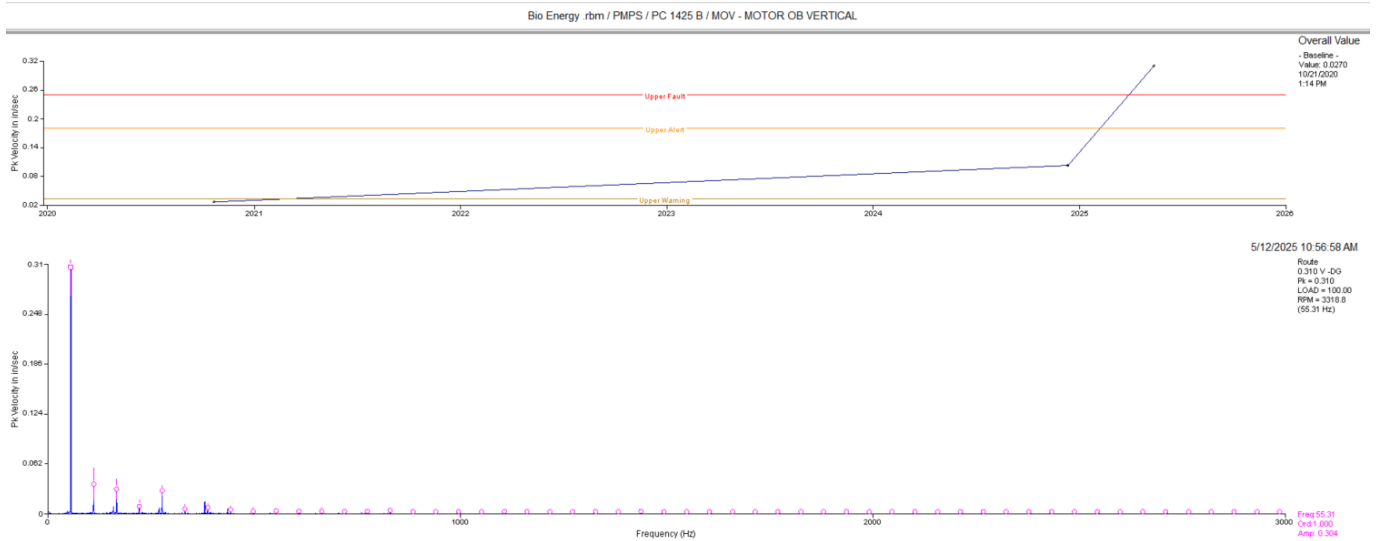
Observation:

Multi-point spectral waterfall of the motor and pump shows a dominant 1 x rpm vibration in the motor.

Recommendation:

Data suggests a soft motor base and or coupling issue. Inspect motor for these issues as time allows. If motor runs at variable speeds, then this type of vibration could also be resonance.

PC 1425 B CLASS II



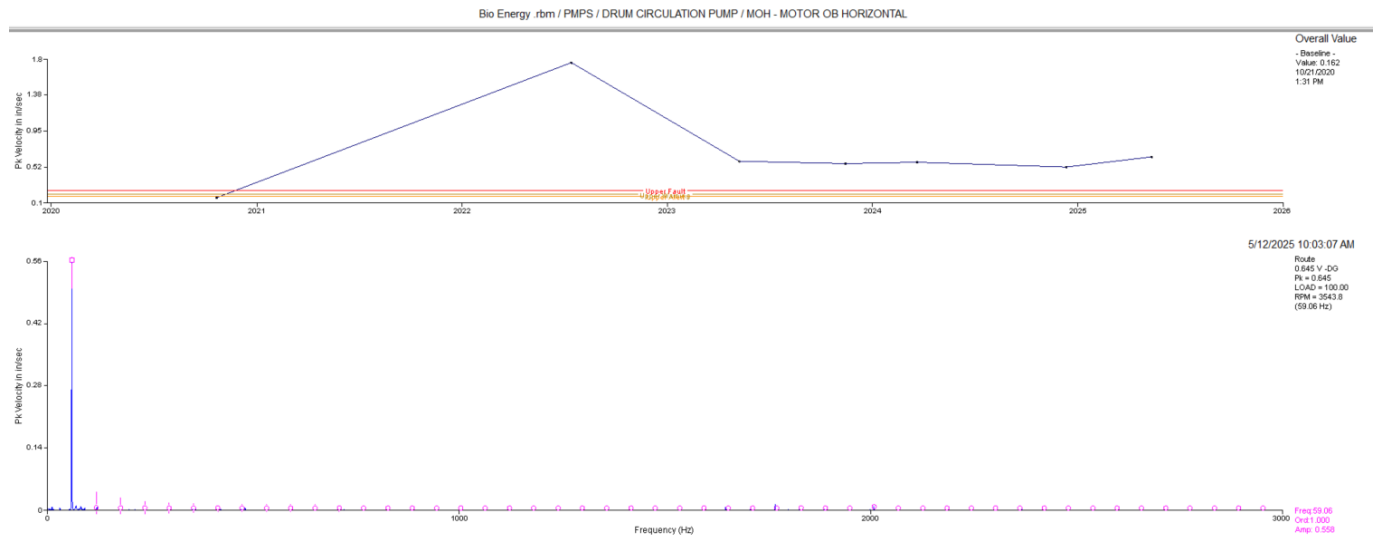
Observation:

Motor outboard vertical shows an increase in overall vibration. Data shows a high 1 x rpm peak with some small rpm harmonics.

Recommendation:

Data suggests a soft motor base and or coupling issue. Inspect motor for these issues as time allows. If motor runs at variable speeds, then this type of vibration could also be resonance.

Drum Circulation Pump CLASS II



Observation:

Multi-point spectra above are the motor and pump. Data shows a dominant 1 x rpm vibration in motor and pump.

Recommendation:

Either pump impeller is out of balance, motor/pump shaft bent, or the fact that the motor is not anchored to the base is likely cause of 1 x rpm vibration. Inspect pump impeller and check motor shaft if possible. The motor is flange mounted but also may need to be mounted to the base. Shim motor to fill gap between motor foot and base. This should lower 1 x rpm vibration.

Abbreviated Last Measurement Summary

Database: Bio Energy .rbm
Station: Pumps

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
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4125 B - PC 4125 B	(12-May-25)	
	OVERALL LEVEL	1 - 20 KHz
MOH	.271 In/Sec	.220 G-s
MOV	.104 In/Sec	.093 G-s
MIH	.241 In/Sec	.180 G-s
MIV	.114 In/Sec	.047 G-s
MIA	.078 In/Sec	.044 G-s
EIA	.093 In/Sec	.080 G-s
EIH	.159 In/Sec	.321 G-s
EIV	.088 In/Sec	.055 G-s
EOH	.064 In/Sec	.377 G-s
EOV	.064 In/Sec	.055 G-s
7210 B - PC 7210 B	(12-May-25)	
	OVERALL LEVEL	1 - 20 KHz
MOH	.036 In/Sec	.162 G-s
MOV	.031 In/Sec	.053 G-s
MIH	.037 In/Sec	.198 G-s
MIV	.052 In/Sec	.030 G-s
MIA	.035 In/Sec	.040 G-s
EIA	.031 In/Sec	.116 G-s
EIH	.023 In/Sec	.298 G-s
EIV	.041 In/Sec	.084 G-s
EOH	.023 In/Sec	.694 G-s
EOV	.034 In/Sec	.135 G-s
7240 A - PC 7240 A	(12-May-25)	
	OVERALL LEVEL	1 - 20 KHz
MOH	.039 In/Sec	.144 G-s
MOV	.033 In/Sec	.038 G-s
MIH	.039 In/Sec	.136 G-s
MIV	.037 In/Sec	.035 G-s
MIA	.019 In/Sec	.047 G-s
EIA	.037 In/Sec	.208 G-s
EIH	.034 In/Sec	.373 G-s
EIV	.049 In/Sec	.128 G-s
EOH	.033 In/Sec	.576 G-s
EOV	.039 In/Sec	.156 G-s
7215 B - PC 7215 B	(12-May-25)	
	OVERALL LEVEL	1 - 20 KHz
MOH	.105 In/Sec	.115 G-s
MOV	.072 In/Sec	.015 G-s
MIH	.090 In/Sec	.151 G-s
MIV	.076 In/Sec	.019 G-s
MIA	.020 In/Sec	.033 G-s
EIA	.112 In/Sec	.190 G-s
EIH	.220 In/Sec	.648 G-s
EIV	.089 In/Sec	.153 G-s
EOH	.213 In/Sec	1.621 G-s
EOV	.065 In/Sec	.182 G-s
6110 B - PC 6110 B	(12-May-25)	

	OVERALL LEVEL	1 - 20 KHz
MOH	.040 In/Sec	.180 G-s
MOV	.047 In/Sec	.059 G-s
MIH	.037 In/Sec	.177 G-s
MIV	.048 In/Sec	.137 G-s
MIA	.027 In/Sec	.091 G-s
EIA	.019 In/Sec	.071 G-s
EIH	.023 In/Sec	.165 G-s
EIV	.017 In/Sec	.068 G-s
EOH	.017 In/Sec	.187 G-s
EOV	.020 In/Sec	.051 G-s

6120 A - PC-6120 A	(12-May-25)	OVERALL LEVEL	1 - 20 KHz
MOH		.044 In/Sec	.113 G-s
MOV		.036 In/Sec	.035 G-s
MIH		.030 In/Sec	.135 G-s
MIV		.020 In/Sec	.049 G-s
MIA		.019 In/Sec	.035 G-s
EIA		.018 In/Sec	.040 G-s
EIH		.025 In/Sec	.226 G-s
EIV		.018 In/Sec	.060 G-s

2105 B - PC 2105 B	(12-May-25)	OVERALL LEVEL	1 - 20 KHz
MOH		.049 In/Sec	.504 G-s
MOV		.038 In/Sec	.128 G-s
MIH		.049 In/Sec	.537 G-s
MIV		.043 In/Sec	.273 G-s
MIA		.032 In/Sec	.188 G-s
EIA		.044 In/Sec	.068 G-s
EIH		.023 In/Sec	.200 G-s
EIV		.048 In/Sec	.053 G-s
EOH		.021 In/Sec	.199 G-s
EOV		.038 In/Sec	.020 G-s

1621 B - PD 1621 B	(12-May-25)	OVERALL LEVEL	1 - 20 KHz
MOH		.015 In/Sec	.337 G-s
MOV		.012 In/Sec	.038 G-s
MIH		.014 In/Sec	.227 G-s
MIV		.0091 In/Sec	.025 G-s
MIA		.015 In/Sec	.026 G-s

2205 A - PC 2205 A	(12-May-25)	OVERALL LEVEL	1 - 20 KHz
MOH		.065 In/Sec	1.430 G-s
MOV		.070 In/Sec	.372 G-s
MIH		.066 In/Sec	1.118 G-s
MIV		.068 In/Sec	.251 G-s
MIA		.046 In/Sec	.351 G-s
EIA		.056 In/Sec	.048 G-s
EIH		.046 In/Sec	.324 G-s
EIV		.049 In/Sec	.074 G-s
EOH		.037 In/Sec	.208 G-s
EOV		.052 In/Sec	.061 G-s

2510 B - PV 2510 B	(12-May-25)	OVERALL LEVEL	1 - 20 KHz
MOH		.062 In/Sec	.181 G-s
MOV		.058 In/Sec	.025 G-s
MIH		.023 In/Sec	.087 G-s
MIV		.049 In/Sec	.066 G-s
MIA		.032 In/Sec	.141 G-s
EIA		.032 In/Sec	.067 G-s
EIH		.041 In/Sec	.173 G-s
EIV		.028 In/Sec	.049 G-s
EOH		.096 In/Sec	.122 G-s
EOV		.040 In/Sec	.041 G-s

2501 A	- PC 2501 A	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.205 In/Sec	.077 G-s
MOV	.322 In/Sec	.025 G-s
MIH	.175 In/Sec	.114 G-s
MIV	.222 In/Sec	.056 G-s
MIA	.072 In/Sec	.033 G-s

2301 C	- PC 2301 C	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.040 In/Sec	.159 G-s
MOV	.047 In/Sec	.041 G-s
MIH	.020 In/Sec	.114 G-s
MIV	.029 In/Sec	.030 G-s
MIA	.032 In/Sec	.023 G-s
EIA	.021 In/Sec	.0078 G-s
EIH	.017 In/Sec	.029 G-s
EIV	.024 In/Sec	.0058 G-s
EOH	.014 In/Sec	.059 G-s
EOV	.026 In/Sec	.018 G-s

2301 A	- PC 2301 A	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.032 In/Sec	.241 G-s
MOV	.103 In/Sec	.035 G-s
MIH	.021 In/Sec	.180 G-s
MIV	.049 In/Sec	.038 G-s
MIA	.030 In/Sec	.022 G-s
EIA	.018 In/Sec	.015 G-s
EIH	.020 In/Sec	.048 G-s
EIV	.024 In/Sec	.015 G-s
EOH	.025 In/Sec	.136 G-s
EOV	.026 In/Sec	.064 G-s

2310 A	- PC 2310 A	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.029 In/Sec	.426 G-s
MOV	.047 In/Sec	.158 G-s
MIH	.021 In/Sec	.324 G-s
MIV	.022 In/Sec	.082 G-s
MIA	.019 In/Sec	.055 G-s
EIA	.044 In/Sec	.085 G-s
EIH	.037 In/Sec	.190 G-s
EIV	.061 In/Sec	.102 G-s
EOH	.032 In/Sec	.151 G-s
EOV	.036 In/Sec	.069 G-s

5201 A	- PC 5201 A	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.089 In/Sec	1.041 G-s
MOV	.063 In/Sec	.529 G-s
MIH	.075 In/Sec	1.026 G-s
MIV	.055 In/Sec	.314 G-s
MIA	.036 In/Sec	.250 G-s
EIA	.033 In/Sec	.055 G-s
EIH	.073 In/Sec	.144 G-s
EIV	.044 In/Sec	.052 G-s
EOH	.060 In/Sec	.141 G-s
EOV	.026 In/Sec	.034 G-s

7501 B	- PC 7501 B	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.023 In/Sec	.490 G-s
MOV	.028 In/Sec	.143 G-s
MIH	.025 In/Sec	.489 G-s
MIV	.023 In/Sec	.121 G-s
MIA	.013 In/Sec	.230 G-s
EIA	.031 In/Sec	.051 G-s
EIH	.016 In/Sec	.253 G-s
EIV	.029 In/Sec	.046 G-s

EOH	.018 In/Sec	.122 G-s
EOV	.032 In/Sec	.026 G-s
1526 B - PC 1526 B (12-May-25)		
OVERALL LEVEL	1 - 20 KHz	
MOH	.155 In/Sec	.823 G-s
MOV	.149 In/Sec	.353 G-s
MIH	.110 In/Sec	1.288 G-s
MIV	.096 In/Sec	.453 G-s
MIA	.063 In/Sec	.422 G-s
EIA	.022 In/Sec	.083 G-s
EIH	.036 In/Sec	.136 G-s
EIV	.049 In/Sec	.184 G-s
EOH	.026 In/Sec	.127 G-s
EOV	.030 In/Sec	.178 G-s
9901 A - PC 9901 A (12-May-25)		
OVERALL LEVEL	1 - 20 KHz	
MOH	.034 In/Sec	.204 G-s
MOV	.057 In/Sec	.181 G-s
MIH	.047 In/Sec	.261 G-s
MIV	.053 In/Sec	.071 G-s
MIA	.037 In/Sec	.061 G-s
EIA	.056 In/Sec	.185 G-s
EIH	.048 In/Sec	.422 G-s
EIV	.053 In/Sec	.144 G-s
EOH	.053 In/Sec	.734 G-s
EOV	.051 In/Sec	.166 G-s
3110 B - PC 3110 B (12-May-25)		
OVERALL LEVEL	1 - 20 KHz	
MOH	.061 In/Sec	.697 G-s
MOV	.100 In/Sec	.106 G-s
MIH	.088 In/Sec	.669 G-s
MIV	.119 In/Sec	.103 G-s
MIA	.102 In/Sec	.125 G-s
EIA	.157 In/Sec	.832 G-s
EIH	.326 In/Sec	5.472 G-s
EIV	.115 In/Sec	.905 G-s
4101 B - PC 4101 B (12-May-25)		
OVERALL LEVEL	1 - 20 KHz	
MOH	.034 In/Sec	.640 G-s
MOV	.050 In/Sec	.200 G-s
MIH	.035 In/Sec	.636 G-s
MIV	.056 In/Sec	.132 G-s
MIA	.039 In/Sec	.124 G-s
EIA	.048 In/Sec	.053 G-s
EIH	.038 In/Sec	.082 G-s
EIV	.049 In/Sec	.044 G-s
EOH	.023 In/Sec	.149 G-s
EOV	.028 In/Sec	.045 G-s
4211 A - PC 4211 A (12-May-25)		
OVERALL LEVEL	1 - 20 KHz	
MOH	.030 In/Sec	.134 G-s
MOV	.031 In/Sec	.022 G-s
MIH	.029 In/Sec	.105 G-s
MIV	.025 In/Sec	.015 G-s
MIA	.017 In/Sec	.018 G-s
EIA	.049 In/Sec	.098 G-s
EIH	.052 In/Sec	.303 G-s
EIV	.040 In/Sec	.087 G-s
EOH	.042 In/Sec	.270 G-s
EOV	.034 In/Sec	.067 G-s
7522 B - PC 7522 B (12-May-25)		
OVERALL LEVEL	1 - 20 KHz	
MOH	.240 In/Sec	.239 G-s
MOV	.474 In/Sec	.052 G-s

MIH	.195 In/Sec	.279 G-s
MIV	.304 In/Sec	.049 G-s
MIA	.080 In/Sec	.041 G-s
EIA	.066 In/Sec	.053 G-s
EIH	.184 In/Sec	.463 G-s
EIV	.222 In/Sec	.051 G-s
EOH	.144 In/Sec	.235 G-s
EOV	.150 In/Sec	.039 G-s
7520 A - PC 7520 A (12-May-25)		
	OVERALL LEVEL	1 - 20 KHz
MOH	.0077 In/Sec	.0095 G-s
MOV	.0096 In/Sec	.0023 G-s
MIH	.0071 In/Sec	.018 G-s
MIV	.012 In/Sec	.0034 G-s
MIA	.013 In/Sec	.0038 G-s
EIA	.023 In/Sec	.0074 G-s
EIH	.026 In/Sec	.018 G-s
EIV	.029 In/Sec	.0076 G-s
9520 B - PC 9520 B (12-May-25)		
	OVERALL LEVEL	1 - 20 KHz
MOH	.047 In/Sec	.751 G-s
MOV	.143 In/Sec	.158 G-s
MIH	.035 In/Sec	.842 G-s
MIV	.166 In/Sec	.097 G-s
MIA	.034 In/Sec	.096 G-s
EIA	.111 In/Sec	1.009 G-s
EIH	.125 In/Sec	1.970 G-s
EIV	.176 In/Sec	.704 G-s
EOH	.128 In/Sec	2.682 G-s
EOV	.171 In/Sec	.690 G-s
9701 A - PC 9701 A (12-May-25)		
	OVERALL LEVEL	1 - 20 KHz
MOH	.139 In/Sec	.532 G-s
MOV	.075 In/Sec	.129 G-s
MIH	.099 In/Sec	.659 G-s
MIV	.162 In/Sec	.165 G-s
MIA	.177 In/Sec	.175 G-s
EIA	.073 In/Sec	.167 G-s
EIH	.200 In/Sec	.398 G-s
EIV	.188 In/Sec	.119 G-s
EOH	.085 In/Sec	.891 G-s
EOV	.035 In/Sec	.157 G-s
9621 B - PC 9621 B (12-May-25)		
	OVERALL LEVEL	1 - 20 KHz
MOH	.096 In/Sec	1.429 G-s
MOV	.065 In/Sec	.499 G-s
MIH	.060 In/Sec	.714 G-s
MIV	.065 In/Sec	.204 G-s
MIA	.062 In/Sec	.114 G-s
EIA	.089 In/Sec	.805 G-s
EIH	.123 In/Sec	1.327 G-s
EIV	.126 In/Sec	.882 G-s
EOH	.050 In/Sec	.634 G-s
EOV	.077 In/Sec	.297 G-s
1202 - PC 1202 (12-May-25)		
	OVERALL LEVEL	1 - 20 KHz
MOH	.012 In/Sec	.096 G-s
MOV	.026 In/Sec	.015 G-s
MIH	.011 In/Sec	.060 G-s
MIV	.023 In/Sec	.011 G-s
MIA	.022 In/Sec	.015 G-s
EIA	.024 In/Sec	.073 G-s
EIH	.035 In/Sec	.137 G-s
EIV	.052 In/Sec	.088 G-s
EOH	.038 In/Sec	.210 G-s

EOV	.037 In/Sec	.052 G-s
2101 A - PC 2101 A (12-May-25)		
OVERALL LEVEL	1 - 20 KHz	
MOH	.013 In/Sec	.772 G-s
MOV	.042 In/Sec	.078 G-s
MIH	.017 In/Sec	.791 G-s
MIV	.018 In/Sec	.201 G-s
MIA	.011 In/Sec	.200 G-s
EIA	.011 In/Sec	.0073 G-s
EIH	.017 In/Sec	.035 G-s
EIV	.016 In/Sec	.0083 G-s
EOH	.012 In/Sec	.056 G-s
EOV	.012 In/Sec	.050 G-s
1520 B - PC 1520 B (12-May-25)		
OVERALL LEVEL	1 - 20 KHz	
MOH	.061 In/Sec	.268 G-s
MOV	.069 In/Sec	.110 G-s
MIH	.020 In/Sec	.424 G-s
MIV	.054 In/Sec	.120 G-s
MIA	.039 In/Sec	.143 G-s
6501 A - PC 6501 A (12-May-25)		
OVERALL LEVEL	1 - 20 KHz	
MOH	.037 In/Sec	.046 G-s
MOV	.022 In/Sec	.028 G-s
MIH	.039 In/Sec	.063 G-s
MIV	.013 In/Sec	.042 G-s
MIA	.013 In/Sec	.027 G-s
EIA	.019 In/Sec	.015 G-s
EIH	.041 In/Sec	.063 G-s
EIV	.015 In/Sec	.024 G-s
EOH	.031 In/Sec	.048 G-s
EOV	.018 In/Sec	.014 G-s
7252 A - PC 7252 A (12-May-25)		
OVERALL LEVEL	1 - 20 KHz	
MOH	.028 In/Sec	.151 G-s
MOV	.022 In/Sec	.032 G-s
MIH	.027 In/Sec	.140 G-s
MIV	.017 In/Sec	.034 G-s
MIA	.0082 In/Sec	.024 G-s
EIA	.019 In/Sec	.277 G-s
EIH	.036 In/Sec	.277 G-s
EIV	.020 In/Sec	.166 G-s
EOH	.043 In/Sec	.752 G-s
EOV	.024 In/Sec	.204 G-s
1531 - PC 1531 (12-May-25)		
OVERALL LEVEL	1 - 20 KHz	
MOH	.082 In/Sec	.223 G-s
MOV	.083 In/Sec	.064 G-s
MIH	.071 In/Sec	.236 G-s
MIV	.054 In/Sec	.100 G-s
MIA	.036 In/Sec	.072 G-s
EIA	.035 In/Sec	.085 G-s
EIH	.069 In/Sec	.260 G-s
EIV	.051 In/Sec	.065 G-s
EOH	.062 In/Sec	.342 G-s
EOV	.047 In/Sec	.182 G-s
4304 B - PC 4304 B (12-May-25)		
OVERALL LEVEL	1 - 20 KHz	
MOH	.056 In/Sec	.189 G-s
MOV	.046 In/Sec	.058 G-s
MIH	.053 In/Sec	.209 G-s
MIV	.046 In/Sec	.035 G-s
MIA	.021 In/Sec	.053 G-s
EIA	.049 In/Sec	.123 G-s

EIH	.030 In/Sec	.293 G-s
EIV	.035 In/Sec	.192 G-s
EOH	.030 In/Sec	.400 G-s
EOV	.034 In/Sec	.240 G-s

4300 A	- PC 4300 A	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.047 In/Sec	.092 G-s
MOV	.048 In/Sec	.021 G-s
MIH	.050 In/Sec	.078 G-s
MIV	.038 In/Sec	.029 G-s
MIA	.033 In/Sec	.037 G-s
EIA	.021 In/Sec	.040 G-s
EIH	.038 In/Sec	.071 G-s
EIV	.027 In/Sec	.015 G-s
EOH	.020 In/Sec	.082 G-s
EOV	.023 In/Sec	.022 G-s

1430 B	- PC 1430 B	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.013 In/Sec	.054 G-s
MOV	.011 In/Sec	.0095 G-s
MIH	.011 In/Sec	.074 G-s
MIV	.0078 In/Sec	.013 G-s
MIA	.0061 In/Sec	.013 G-s
EIA	.0056 In/Sec	.022 G-s
EIH	.0094 In/Sec	.053 G-s
EIV	.0073 In/Sec	.025 G-s
EOH	.0088 In/Sec	.080 G-s
EOV	.0088 In/Sec	.016 G-s

1425 B	- PC 1425 B	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.085 In/Sec	.293 G-s
MOV	.310 In/Sec	.058 G-s
MIH	.061 In/Sec	.310 G-s
MIV	.189 In/Sec	.065 G-s
MIA	.078 In/Sec	.102 G-s
EIA	.065 In/Sec	.094 G-s
EIH	.049 In/Sec	.330 G-s
EIV	.145 In/Sec	.068 G-s
EOH	.031 In/Sec	.377 G-s
EOV	.053 In/Sec	.132 G-s

1001 B	- PC 1001 B	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.033 In/Sec	.395 G-s
MOV	.041 In/Sec	.171 G-s
MIH	.023 In/Sec	.765 G-s
MIV	.034 In/Sec	.080 G-s
MIA	.027 In/Sec	.177 G-s
EIA	.055 In/Sec	.097 G-s
EIH	.072 In/Sec	.179 G-s
EIV	.081 In/Sec	.082 G-s
EOH	.111 In/Sec	.149 G-s
EOV	.148 In/Sec	.058 G-s

4320 B	- PC 4320 B	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.054 In/Sec	.230 G-s
MOV	.047 In/Sec	.023 G-s
MIH	.053 In/Sec	.151 G-s
MIV	.036 In/Sec	.031 G-s
MIA	.014 In/Sec	.041 G-s
EIA	.043 In/Sec	.354 G-s
EIH	.037 In/Sec	.722 G-s
EIV	.041 In/Sec	.201 G-s
EOH	.027 In/Sec	.370 G-s
EOV	.030 In/Sec	.098 G-s

5004	- PC-5004	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.022 In/Sec	.090 G-s
MOV	.021 In/Sec	.030 G-s
MIH	.020 In/Sec	.077 G-s
MIV	.036 In/Sec	.012 G-s
MIA	.034 In/Sec	.0097 G-s
EIA	.023 In/Sec	.054 G-s
EIH	.017 In/Sec	.291 G-s
EIV	.018 In/Sec	.061 G-s
EOH	.052 In/Sec	.226 G-s
EOV	.030 In/Sec	.079 G-s

1301 A	- PC-1301 A	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.066 In/Sec	.309 G-s
MOV	.105 In/Sec	.079 G-s
MIH	.060 In/Sec	.536 G-s
MIV	.083 In/Sec	.192 G-s
MIA	.061 In/Sec	.079 G-s
EIA	.117 In/Sec	.164 G-s
EIH	.120 In/Sec	.319 G-s
EIV	.140 In/Sec	.143 G-s
EOH	.091 In/Sec	.591 G-s
EOV	.101 In/Sec	.144 G-s

INFLUENT	- DAF INFULENT	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.169 In/Sec	.112 G-s
MOV	.303 In/Sec	.140 G-s
MIH	.144 In/Sec	.181 G-s
MIV	.243 In/Sec	.081 G-s
MIA	.097 In/Sec	.061 G-s

CIRC PUMP	- DRUM CIRCULATION PUMP	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.644 In/Sec	.386 G-s
MOV	.336 In/Sec	.044 G-s
MIH	.045 In/Sec	.478 G-s
MIV	.167 In/Sec	.054 G-s
MIA	.323 In/Sec	.103 G-s

EFFULENT	- DAF EFFULENT	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.100 In/Sec	.229 G-s
MOV	.186 In/Sec	.028 G-s
MIH	.079 In/Sec	.127 G-s
MIV	.105 In/Sec	.020 G-s
MIA	.081 In/Sec	.026 G-s

CHILLER1	- CHILLER 1	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.037 In/Sec	.574 G-s
MOV	.035 In/Sec	.415 G-s
MIH	.054 In/Sec	1.123 G-s
MIV	.037 In/Sec	.335 G-s
MIA	.028 In/Sec	.420 G-s
EIA	.021 In/Sec	.161 G-s
EIH	.046 In/Sec	1.069 G-s
EIV	.031 In/Sec	.304 G-s
EOH	.023 In/Sec	.404 G-s
EOV	.024 In/Sec	.059 G-s
EOA	.019 In/Sec	.066 G-s

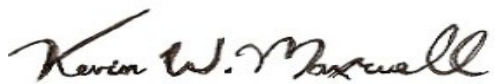
BOILERFAN	- BOILER DRAFT FAN	(12-May-25)
	OVERALL LEVEL	1 - 20 KHz
MOH	.124 In/Sec	.381 G-s
MOV	.107 In/Sec	.074 G-s
MIH	.258 In/Sec	.127 G-s
MIV	.073 In/Sec	.020 G-s

Clarification Of Vibration Units:

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

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

Sincerely,



ISO Certified Vibration Analyst, Category III



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