



MILLINGTON, TN

April 7, 2021

Blues City Brewery

Subject: April vibration service

Most of the machines surveyed were found to be in good condition with the exception of the following:

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.

This completes our assessment of your equipment for this survey. Thank you for your business and don't hesitate to call if you have any comments or questions.

Sincerely,

David W Shook

David W. Shook
Senior Reliability Specialists
Hi-Speed Industrial Service
dshook@gohispeed.com

7030 Ryburn Drive
Millington, TN 38053
P. 901-873-5300
F. 901-873-5301

Reportable equipment

Boiler Feed Water Pump Middle

The Bottom of the pump has a shaft speed vibration at just over 0.5"/second velocity peak. We suspect wear in the pump, debris/build up/damage, or possibly a coupling issue. Inspect as time allows. **Rated a Class II Defect.**

Boiler Fan 2

Motor vibrations are still high for the motor. Velocity overall is at 1"/second peak. Ensure all foot bolts on the motor and all fan bearing bolts are torqued and there is no soft foot. This is more than likely a fan imbalance that is transferring through the motor. Still recommend having fan pulled and shop balanced on a balance stand. **Rated as a Class III Defect.**

Boiler 3 Fan, Motor Bearings

Bearing defect frequencies are present in the motor vibration data. The acceleration trend has increased this survey. The overalls are above 4 g's RMS. Expect to change out the bearings in the future. **Rated a Class II Defect.**

Boiler 3 Fan, Fan Bearings

The inboard fan bearing shows strong peaks in the acceleration spectrum up around 2500 Hz with peaks around 114 Hz apart. Vibrations are over 7 g's RMS. Expect to change out the bearings in the future. **Rated a Class II Defect.**

Chilled Water Makeup Pump 1

The inboard measurements have risen this survey. Check the unit coupling and fasteners. Have the alignment checked as time allows. **Rated a Class I Defect.**

Service Water Pump 8 *****

The axial motor 1x vibrations for this unit has increased dramatically to over 1"/second velocity peak. We recommend inspecting all foot bolts, the coupling for wear and have a laser alignment preformed as soon as possible. **Rated as a Class IV Defect.**

RO Water Pump 2

This unit still has a vibration at what appears to be vane pass, (5x RPM, 127.5 HZ). The vibrations are over 0.4"/sec velocity peak in the time waveform now. There could be wear in the pump, or there could be a flow issue. We recommend further inspection and adjustments of flow related controls, filters, screens, or piping. **Rated a Class II Defect.**

2nd Floor South Hot Water Pump

Shaft speed vibration still dominates the motor vibration data at near 1/2" per second velocity peak. A 2x RPM vibration is also present. Inspect the unit base, structure, coupling and fasteners for issues. Have the shaft alignment checked too. **Rated a Class II Defect.**

Sugar Tank Pump V3

The gearbox input vibration has a dominant peak at what looks to be the gear mesh frequency. Perform an oil analysis and be prepared to change it out this year if needed. **Rated a Class II Defect.**

Filter Cellar Chill Water Circulator Pump 1

The motor air gap issue is still present. Possible causes are soft foot, eccentric rotor, eccentric bearing bores, electrical imbalance. **Rated a Class II Defect.**

G Cellar Cold Glycol Pump 4

pump bearings have signs of early defects, or there is slight cavitation in the pump. No action required at this time other than ensuring the bearings have lubrication. **Rated a Class I Defect.**

G Cellar 128 NANO Pump

Vibrations at shaft speed are still excessive. Ensure all fasteners are tight and support structure is sound. Check for pipe strain. Make sure coupling is in good shape and shaft alignment is precise. **Rated a Class II Defect.**

G Cellar 129 NANO Pump

Motor bearings have signs of early defects. No action required at this time other than ensuring the bearings have lubrication. **Rated a Class I Defect.**

Administration HVAC Hot Water Pump

Motor vibration is over 1/2"/second velocity peak overall. There could still be an alignment or coupling issue. Inspect the coupling and check the shaft alignment. **Rated a Class II Defect.**

Abbreviated Last Measurement Summary *****

Database: Blues_city.rbm
Station: POWER HOUSE
Report Date: 07-Apr-21 14:02

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	MACHINE SPEED
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AIR COMP 3 - COMPRESSOR #3 - 250HP		(07-Apr-21)	
	OVERALL LEVEL	1-20 KHZ	

11	.138 In/Sec	1.763 G-s	1792.0 RPM
12	.168 In/Sec	2.022 G-s	
21	.239 In/Sec	3.996 G-s	
22	.139 In/Sec	1.476 G-s	
23	.096 In/Sec	1.185 G-s	
71	.189 In/Sec	2.347 G-s	3655.7 RPM
72	.096 In/Sec	2.254 G-s	
73	.216 In/Sec	2.117 G-s	
81	.138 In/Sec	1.533 G-s	
82	.131 In/Sec	1.599 G-s	
83	.177 In/Sec	1.590 G-s	

AIR COMP 5 - COMPRESSOR #5 (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.175 In/Sec	.521 G-s	1788.0 RPM
12	.066 In/Sec	.902 G-s	
13	.077 In/Sec	.388 G-s	
21	.122 In/Sec	.498 G-s	
22	.066 In/Sec	.254 G-s	
23	.096 In/Sec	.379 G-s	
71	.108 In/Sec	.812 G-s	1785.0 RPM
72	.084 In/Sec	.417 G-s	
73	.158 In/Sec	.585 G-s	
81	.145 In/Sec	.720 G-s	
82	.050 In/Sec	1.060 G-s	
83	.105 In/Sec	.900 G-s	

BFWPMIDLE2 - BOILER FEED WATER PUMP MID 2 (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.233 In/Sec	.567 G-s	3540.0 RPM
12	.147 In/Sec	.573 G-s	
21	.085 In/Sec	.334 G-s	
22	.097 In/Sec	.419 G-s	
23	.151 In/Sec	.490 G-s	
71	.378 In/Sec	1.288 G-s	
72	.217 In/Sec	.656 G-s	
73	.079 In/Sec	1.557 G-s	
81	.552 In/Sec	1.924 G-s	
82	.096 In/Sec	.766 G-s	

BFWPSOUTH1 - BOILER FEED WATER PUMP S 1 (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.072 In/Sec	.240 G-s	3540.0 RPM
12	.134 In/Sec	.411 G-s	
21	.213 In/Sec	.368 G-s	
22	.087 In/Sec	.426 G-s	
23	.149 In/Sec	.088 G-s	
71	.322 In/Sec	1.126 G-s	
72	.153 In/Sec	1.170 G-s	
73	.060 In/Sec	1.090 G-s	
81	.462 In/Sec	.814 G-s	
82	.065 In/Sec	.602 G-s	

BOILERFAN2 - BOILER FAN #2 (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.511 In/Sec	.149 G-s	1780.0 RPM
12	.795 In/Sec	.331 G-s	

21	1.023 In/Sec	.132 G-s
22	.595 In/Sec	.217 G-s
23	.367 In/Sec	.162 G-s

BOILERFAN3 - BOILER FAN #3 - 1780 RPM Max (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.147 In/Sec	2.063 G-s	1780.0 RPM
12	.119 In/Sec	1.570 G-s	
21	.114 In/Sec	2.893 G-s	
22	.227 In/Sec	4.455 G-s	
23	.090 In/Sec	1.113 G-s	
71	.167 In/Sec	7.492 G-s	
72	.103 In/Sec	3.880 G-s	
73	.117 In/Sec	1.944 G-s	
81	.240 In/Sec	.584 G-s	

CR PUMP 1 - CARBON RECIRC PUMP (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.046 In/Sec	.145 G-s	3545.0 RPM
12	.058 In/Sec	.129 G-s	
21	.053 In/Sec	.140 G-s	
22	.065 In/Sec	.124 G-s	
23	.109 In/Sec	.069 G-s	
71	.036 In/Sec	.168 G-s	
72	.033 In/Sec	.264 G-s	
73	.038 In/Sec	.039 G-s	
81	.041 In/Sec	.152 G-s	
82	.028 In/Sec	.078 G-s	

MAKEUP #1 - CHILLED WATER MAKEUP PUMP 1 (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.162 In/Sec	.987 G-s	3600.0 RPM
12	.122 In/Sec	1.035 G-s	
21	.218 In/Sec	.657 G-s	
22	.174 In/Sec	.546 G-s	
23	.202 In/Sec	.285 G-s	
71	.407 In/Sec	.229 G-s	
72	.262 In/Sec	.376 G-s	
73	.316 In/Sec	.052 G-s	
81	.430 In/Sec	.316 G-s	
82	.232 In/Sec	.372 G-s	

SW PUMP 8 - SERVICE WATER PUMP 8 (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.140 In/Sec	.190 G-s	3545.0 RPM
12	.475 In/Sec	.327 G-s	
21	.164 In/Sec	.738 G-s	
22	.354 In/Sec	.599 G-s	
23	1.164 In/Sec	.257 G-s	
71	.304 In/Sec	.586 G-s	
72	.258 In/Sec	.566 G-s	
73	.096 In/Sec	.798 G-s	
81	.145 In/Sec	.697 G-s	
82	.156 In/Sec	.268 G-s	

RO 2 - RO WATER PUMP 2 (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ
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11	.130 In/Sec	.625 G-s	3545.0 RPM
12	.162 In/Sec	.490 G-s	
21	.133 In/Sec	.586 G-s	
22	.342 In/Sec	.796 G-s	
23	.159 In/Sec	.369 G-s	
71	.435 In/Sec	1.089 G-s	
72	.443 In/Sec	.556 G-s	
73	.443 In/Sec	.461 G-s	
81	.239 In/Sec	1.105 G-s	
82	.194 In/Sec	.638 G-s	

AMMCOMP 2 - AMMONIA COMP - #2 (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.049 In/Sec	.041 G-s	3592.0 RPM
12	.062 In/Sec	.049 G-s	
13	.045 In/Sec	.097 G-s	
21	.079 In/Sec	.148 G-s	
22	.066 In/Sec	.075 G-s	
23	.152 In/Sec	.133 G-s	
71	.194 In/Sec	.863 G-s	
72	.271 In/Sec	1.349 G-s	
73	.265 In/Sec	.614 G-s	
81	.195 In/Sec	.666 G-s	
82	.128 In/Sec	.695 G-s	
83	.210 In/Sec	.388 G-s	
71F	.192 In/Sec	.735 G-s	
72F	.235 In/Sec	.805 G-s	
73F	.260 In/Sec	.493 G-s	
81F	.180 In/Sec	.934 G-s	
82F	.173 In/Sec	.551 G-s	
83F	.246 In/Sec	.361 G-s	

Clarification Of Vibration Units:

Acc	-->	G-s	PK	
Vel	-->	In/Sec	PK	Abbreviated Last Measurement

Summary

Database: Blues_city.rbm
Station: UPPER FLOORS
Report Date: 07-Apr-21 14:02

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	MACHINE SPEED
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2SHWP - 2ND FLOOR S. HOT WATER PUMP (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.108 In/Sec	.394 G-s	3545.0 RPM
12	.398 In/Sec	.795 G-s	
21	.148 In/Sec	.695 G-s	
22	.359 In/Sec	.555 G-s	
23	.458 In/Sec	.623 G-s	
71	.097 In/Sec	.855 G-s	
72	.132 In/Sec	.638 G-s	
73	.071 In/Sec	1.016 G-s	
81	.083 In/Sec	.988 G-s	

82

.070 In/Sec

.796 G-s

Clarification Of Vibration Units:

Acc --> G-s PK

Vel --> In/Sec PK

Abbreviated Last Measurement

Summary

Database: Blues_city.rbm

Station: BREWING 1ST FLOOR

Report Date: 07-Apr-21 14:02

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	MACHINE SPEED
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*** NO DATA Was Found That Meets the Report Specification ***
Abbreviated Last Measurement Summary

Database: Blues_city.rbm

Station: BREWING BASEMENT

Report Date: 07-Apr-21 14:02

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	MACHINE SPEED
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KCP1	- KETTLE CIRC PUMP 1	(07-Apr-21)	
	OVERALL LEVEL	1-20 KHZ	
11	.094 In/Sec	1.643 G-s	1182.0 RPM
12	.016 In/Sec	4.767 G-s	
21	.083 In/Sec	1.511 G-s	
22	.021 In/Sec	1.223 G-s	
23	.029 In/Sec	.949 G-s	
71	.050 In/Sec	.266 G-s	
72	.077 In/Sec	.227 G-s	
73	.030 In/Sec	.127 G-s	
81	.025 In/Sec	.121 G-s	
82	.023 In/Sec	.089 G-s	

Clarification Of Vibration Units:

Acc --> G-s PK

Vel --> In/Sec PK

Abbreviated Last Measurement

Summary

Database: Blues_city.rbm

Station: GRAIN TRANSFER

Report Date: 07-Apr-21 14:02

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	MACHINE SPEED
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*** NO DATA Was Found That Meets the Report Specification ***
Abbreviated Last Measurement Summary

Database: Blues_city.rbm
 Station: SUGAR PUMPS
 Report Date: 07-Apr-21 14:02

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	MACHINE SPEED

V3	- SUGAR TANK VIKING PUMP #3	(07-Apr-21)	
	OVERALL LEVEL	1-20 KHZ	
11	.100 In/Sec	.333 G-s	1750.0 RPM
12	.199 In/Sec	.217 G-s	
21	.067 In/Sec	.783 G-s	
22	.138 In/Sec	.313 G-s	
23	.146 In/Sec	.407 G-s	
31	.241 In/Sec	3.749 G-s	
32	.182 In/Sec	1.249 G-s	
33	.113 In/Sec	1.015 G-s	
61	.231 In/Sec	.762 G-s	
62	.185 In/Sec	.883 G-s	
63	.114 In/Sec	.614 G-s	
71	.210 In/Sec	.499 G-s	
72	.120 In/Sec	.119 G-s	
73	.097 In/Sec	.307 G-s	
81	.233 In/Sec	.155 G-s	
82	.170 In/Sec	.118 G-s	
V4	- SUGAR TANK VIKING PUMP #4	(07-Apr-21)	
	OVERALL LEVEL	1-20 KHZ	
11	.055 In/Sec	.330 G-s	1750.0 RPM
12	.112 In/Sec	.208 G-s	
21	.151 In/Sec	.515 G-s	
22	.251 In/Sec	.586 G-s	
23	.168 In/Sec	.788 G-s	
31	.116 In/Sec	.157 G-s	
32	.161 In/Sec	.515 G-s	
33	.332 In/Sec	.421 G-s	
61	.099 In/Sec	.717 G-s	
62	.125 In/Sec	.284 G-s	
63	.318 In/Sec	.454 G-s	
71	.159 In/Sec	.149 G-s	
72	.308 In/Sec	.273 G-s	
73	.154 In/Sec	.249 G-s	
81	.078 In/Sec	.068 G-s	
82	.166 In/Sec	.240 G-s	

 Clarification Of Vibration Units:

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

Abbreviated Last Measurement

Summary

Database: Blues_city.rbm
 Station: ALCOHOL PUMP ROOM
 Report Date: 07-Apr-21 14:02

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	MACHINE SPEED
SK1 RO1 - SKID 1 - RO PUMP #1		(07-Apr-21)	
	OVERALL LEVEL	1-20 KHZ	
11	.061 In/Sec	.464 G-s	3555.0 RPM
12	.044 In/Sec	.892 G-s	
21	.090 In/Sec	.474 G-s	
22	.143 In/Sec	.557 G-s	
23	.119 In/Sec	.496 G-s	
SK1 RO4 - SKID 1 - RO PUMP #4		(07-Apr-21)	
	OVERALL LEVEL	1-20 KHZ	
11	.067 In/Sec	.164 G-s	3515.0 RPM
12	.115 In/Sec	.190 G-s	
21	.062 In/Sec	.273 G-s	
22	.079 In/Sec	.220 G-s	
23	.090 In/Sec	.148 G-s	
SK1 RO3 - SKID 1 - RO PUMP #3		(07-Apr-21)	
	OVERALL LEVEL	1-20 KHZ	
11	.198 In/Sec	1.026 G-s	3550.0 RPM
12	.241 In/Sec	.674 G-s	
21	.169 In/Sec	1.093 G-s	
22	.184 In/Sec	.700 G-s	
23	.120 In/Sec	.775 G-s	
71	.146 In/Sec	.752 G-s	
72	.180 In/Sec	.931 G-s	
73	.188 In/Sec	.326 G-s	
81	.126 In/Sec	1.016 G-s	
82	.144 In/Sec	.614 G-s	
SK1 RO2 - SKID 1 - RO PUMP #2		(07-Apr-21)	
	OVERALL LEVEL	1-20 KHZ	
11	.095 In/Sec	.674 G-s	3570.0 RPM
12	.061 In/Sec	.712 G-s	
21	.077 In/Sec	.907 G-s	
22	.037 In/Sec	.591 G-s	
23	.049 In/Sec	.297 G-s	
71	.066 In/Sec	.464 G-s	
72	.028 In/Sec	.326 G-s	
73	.096 In/Sec	.392 G-s	
81	.077 In/Sec	.959 G-s	
82	.052 In/Sec	.724 G-s	

Clarification Of Vibration Units:

Acc --> G-s PK

Vel --> In/Sec PK

Abbreviated Last Measurement

Summary

Database: Blues_city.rbm

Station: ADMINISTRATIVE AREA

Report Date: 07-Apr-21 14:02

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	MACHINE SPEED
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HVAC COLD  - HVAC COLD GLYCOL CIRC PUMP      (07-Apr-21)
              OVERALL LEVEL 1-20 KHZ
11          .048 In/Sec      .666 G-s      3600.0 RPM
12          .092 In/Sec      .228 G-s
21          .106 In/Sec      .289 G-s
22          .083 In/Sec      .393 G-s
23          .096 In/Sec      .194 G-s
71          .133 In/Sec      .230 G-s
72          .121 In/Sec      .316 G-s
73          .057 In/Sec      .127 G-s
81          .192 In/Sec      .215 G-s
82          .109 In/Sec      .240 G-s

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HVAC HOT    - HVAC HOT WATER CIRC PUMP      (07-Apr-21)
              OVERALL LEVEL 1-20 KHZ
11          .256 In/Sec      .288 G-s      3600.0 RPM
12          .331 In/Sec      .378 G-s
21          .254 In/Sec      .642 G-s
22          .500 In/Sec      .409 G-s
23          .285 In/Sec      .375 G-s
71          .293 In/Sec      .438 G-s
72          .418 In/Sec      .486 G-s
73          .243 In/Sec      .358 G-s
81          .221 In/Sec      .335 G-s
82          .177 In/Sec      .331 G-s

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Clarification Of Vibration Units:
Acc      -->  G-s      PK
Vel      -->  In/Sec   PK
Summary
Abbreviated Last Measurement

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Database:  Blues_city.rbm
Station:   FILTER CELLAR
Report Date: 07-Apr-21  14:02

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MEASUREMENT POINT      OVERALL LEVEL      HFD / VHFD      MACHINE SPEED
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CHILL 1    - CHILL WATER CIRC PUMP #1      (07-Apr-21)
              OVERALL LEVEL 1-20 KHZ
11          .250 In/Sec      .631 G-s      3600.0 RPM
12          .180 In/Sec      .605 G-s
21          .264 In/Sec      .667 G-s
22          .125 In/Sec      .518 G-s
23          .208 In/Sec      .733 G-s
71          .138 In/Sec      .693 G-s
72          .116 In/Sec      .520 G-s
73          .137 In/Sec      .985 G-s
81          .080 In/Sec      .709 G-s
82          .072 In/Sec      .377 G-s

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W COOL A    - CHILL WATER WORT COOL SIDE A  (07-Apr-21)
              OVERALL LEVEL 1-20 KHZ

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11	.039 In/Sec	.063 G-s	3600.0 RPM
12	.059 In/Sec	.288 G-s	
21	.080 In/Sec	.384 G-s	
22	.094 In/Sec	.299 G-s	
23	.110 In/Sec	.076 G-s	
71	.295 In/Sec	1.093 G-s	
72	.188 In/Sec	.179 G-s	
73	.106 In/Sec	.416 G-s	
81	.148 In/Sec	.685 G-s	
82	.110 In/Sec	.542 G-s	

W COOL B - CHILL WATER WORT COOL SIDE B (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.040 In/Sec	.547 G-s	3600.0 RPM
12	.027 In/Sec	.154 G-s	
21	.064 In/Sec	.344 G-s	
22	.032 In/Sec	.351 G-s	
23	.050 In/Sec	.157 G-s	
71	.037 In/Sec	.105 G-s	
72	.049 In/Sec	.034 G-s	
73	.046 In/Sec	.055 G-s	
81	.024 In/Sec	.100 G-s	
82	.033 In/Sec	.057 G-s	

Clarification Of Vibration Units:

Acc --> G-s PK

Vel --> In/Sec PK

Abbreviated Last Measurement

Summary

Database: Blues_city.rbm

Station: GOVERNMENT CELLAR

Report Date: 07-Apr-21 14:02

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	MACHINE SPEED
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COLD GLY 3 - COLD GLYCOL PUMP #3		(07-Apr-21)	
	OVERALL LEVEL	1-20 KHZ	
11	.070 In/Sec	.058 G-s	3600.0 RPM
12	.027 In/Sec	.092 G-s	
21	.053 In/Sec	.355 G-s	
22	.058 In/Sec	.323 G-s	
23	.067 In/Sec	.087 G-s	
71	.165 In/Sec	.159 G-s	
72	.075 In/Sec	.125 G-s	
73	.096 In/Sec	.034 G-s	
81	.194 In/Sec	.152 G-s	
82	.075 In/Sec	.181 G-s	
COLD GLY 4 - COLD GLYCOL PUMP #4		(07-Apr-21)	
	OVERALL LEVEL	1-20 KHZ	
11	.084 In/Sec	.293 G-s	3600.0 RPM
12	.040 In/Sec	.531 G-s	
21	.112 In/Sec	.614 G-s	
22	.096 In/Sec	.390 G-s	

23	.075 In/Sec	.223 G-s
71	.185 In/Sec	1.431 G-s
72	.129 In/Sec	1.120 G-s
73	.187 In/Sec	.713 G-s
81	.211 In/Sec	.900 G-s
82	.102 In/Sec	1.615 G-s

COLD GLY 5 - COLD GLYCOL PUMP #5 (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.066 In/Sec	.138 G-s	3600.0 RPM
12	.034 In/Sec	.160 G-s	
21	.095 In/Sec	.240 G-s	
22	.069 In/Sec	.194 G-s	
23	.132 In/Sec	.034 G-s	
71	.039 In/Sec	.110 G-s	
72	.021 In/Sec	.104 G-s	
73	.050 In/Sec	.067 G-s	
81	.034 In/Sec	.142 G-s	
82	.029 In/Sec	.140 G-s	

COLD GLY 6 - COLD GLYCOL PUMP #6 (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.053 In/Sec	.574 G-s	3600.0 RPM
12	.067 In/Sec	.648 G-s	
21	.170 In/Sec	.479 G-s	
22	.120 In/Sec	.532 G-s	
23	.075 In/Sec	.245 G-s	
71	.057 In/Sec	.096 G-s	
72	.030 In/Sec	.055 G-s	
73	.049 In/Sec	.069 G-s	
81	.035 In/Sec	.161 G-s	
82	.033 In/Sec	.123 G-s	

PACK GLY 2 - PACKAGING COLD GLYCOL PUMP 2 (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.035 In/Sec	.819 G-s	3600.0 RPM
12	.021 In/Sec	.825 G-s	
21	.031 In/Sec	1.361 G-s	
22	.029 In/Sec	.633 G-s	
23	.028 In/Sec	.998 G-s	
71	.032 In/Sec	.277 G-s	
72	.021 In/Sec	.353 G-s	
73	.030 In/Sec	.203 G-s	
81	.026 In/Sec	.302 G-s	
82	.024 In/Sec	.105 G-s	

NANO 126 - NANO SKID PUMP 126 (07-Apr-21)

	OVERALL LEVEL	1-20 KHZ	
11	.221 In/Sec	.482 G-s	3570.0 RPM
12	.097 In/Sec	.358 G-s	
21	.203 In/Sec	.544 G-s	
22	.118 In/Sec	.543 G-s	
23	.142 In/Sec	.595 G-s	
71	.125 In/Sec	.705 G-s	
72	.126 In/Sec	.494 G-s	
73	.159 In/Sec	.169 G-s	
81	.223 In/Sec	.359 G-s	

82	.096 In/Sec	.287 G-s	
NANO 127 - NANO SKID PUMP 127 (07-Apr-21)			
	OVERALL LEVEL	1-20 KHZ	
11	.152 In/Sec	.466 G-s	3570.0 RPM
12	.113 In/Sec	1.195 G-s	
21	.179 In/Sec	.696 G-s	
22	.172 In/Sec	.565 G-s	
23	.209 In/Sec	.495 G-s	
71	.131 In/Sec	.403 G-s	
72	.235 In/Sec	.342 G-s	
73	.169 In/Sec	.129 G-s	
81	.080 In/Sec	.300 G-s	
82	.151 In/Sec	.473 G-s	
NANO 128 - NANO SKID PUMP 128 (07-Apr-21)			
	OVERALL LEVEL	1-20 KHZ	
11	.610 In/Sec	.269 G-s	3570.0 RPM
12	.705 In/Sec	.725 G-s	
21	.733 In/Sec	.393 G-s	
22	.254 In/Sec	.502 G-s	
23	.496 In/Sec	.317 G-s	
71	.172 In/Sec	.377 G-s	
72	.487 In/Sec	.508 G-s	
73	.669 In/Sec	.177 G-s	
81	.188 In/Sec	.344 G-s	
82	.329 In/Sec	.387 G-s	
NANO 129 - NANO SKID PUMP 129 (07-Apr-21)			
	OVERALL LEVEL	1-20 KHZ	
11	.085 In/Sec	.635 G-s	3570.0 RPM
12	.150 In/Sec	1.816 G-s	
21	.161 In/Sec	1.087 G-s	
22	.128 In/Sec	1.033 G-s	
23	.132 In/Sec	1.121 G-s	
71	.106 In/Sec	.530 G-s	
72	.119 In/Sec	.504 G-s	
73	.166 In/Sec	.332 G-s	
81	.068 In/Sec	.419 G-s	
82	.120 In/Sec	.495 G-s	

Clarification Of Vibration Units:

Acc	-->	G-s	PK	
Vel	-->	In/Sec	PK	Abbreviated Last Measurement

Summary

Database: Blues_city.rbm
 Station: UNUSED / REMOVED
 Report Date: 07-Apr-21 14:02

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	MACHINE SPEED
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*** NO DATA Was Found That Meets the Report Specification ***

