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July 18th, 2023

Shawna Guffey Arkema Memphis, TN

The following is a summary of findings from the July 2023 WEEK 2 vibration survey at the H2O2 Plant that was performed on July 14th, 2023.

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.

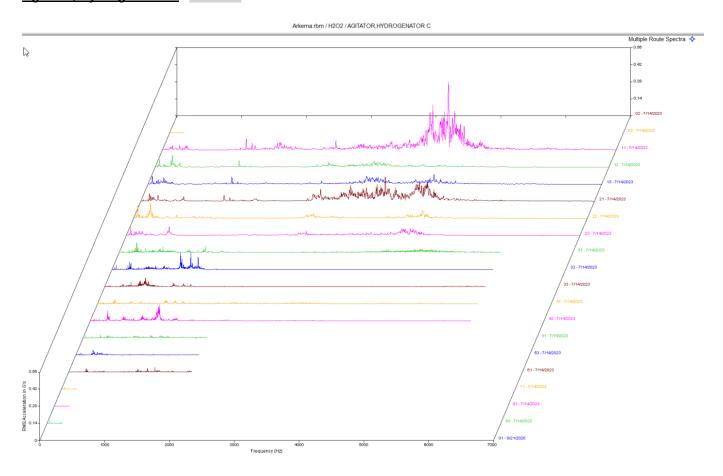
<u>CLASS III:</u> Defect (s) present that may cause failure in short term (less than 2 months). This should be addressed as soon as practical, with a high maintenance priority. Increase monitoring frequency.

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 guaranty or warranty of the matters discussed herein.

WEEK 2 H2O2 Plant

Agitator, Hydrogenator C CLASS I



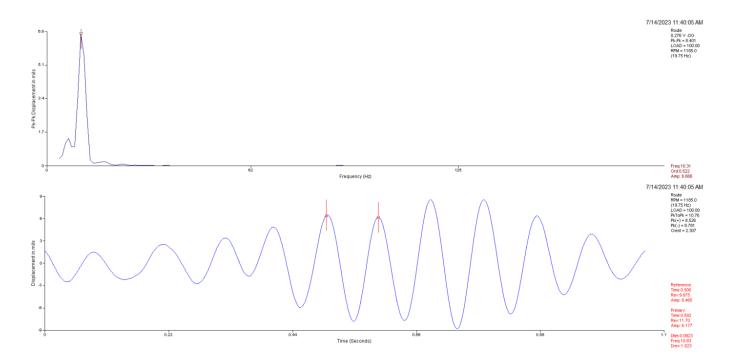
Observation:

Data above is a multipoint spectral waterfall. Data does show noise floor in the motor data. Data points labeled 11-23.

Recommendation:

Motor data still suggests a possible issue in the motor. May be rolling element defects in bearings. This issue appears to be minor at this time and we are monitoring this closely.

D Hydrogenator Agitator CLASS II



Observation:

Data above is output top radial direction (East-West). Displacement amplitudes are quite high. Waveform shows an amplitude of 11 mil peak-peak. There is quite a bit of low frequency vibration in the gear drive. Spectral and waveform data shows a dominant low frequency vibration that is likely a harmonic of output speed of the gearbox. Gearbox does appear to have visible torsional movement. The gear mesh vibration previously seen in the data appears to be lower this survey.

Recommendation:

Ensure output shaft does not excessive shaft defection. Check coupling hubs and shaft for run out using a dial indicator. Will continue to monitor closely.

Database: Arkema.rbm Station: PEROXIDE Route No. 2: ARK WK 2

MEASUREMENT POI	NT OVERALL LEVEL	HFD / VHFD
2130-1old - C	Concentrator Vacuum Pump OVERALL LEVEL	
11	000 Tp/Soc	.642 G-s
21	.099 In/Sec	.454 G-s
23	.088 In/Sec .126 In/Sec	.126 G-s
	.126 In/Sec	1.967 G-s
71		
81 83	.193 In/Sec .145 In/Sec	.469 G-s .975 G-s
7000-01 - AG.	ITATOR, HYDROGENATOR C	(14-Jul-23)
02	OVERALL LEVEL .047 In/Sec	.015 G-s
03	.047 In/Sec	.015 G-s
	.049 In/Sec	.008/ G-S
11	.0/3 In/Sec	1.905 G-s .366 G-s
12	,	
13	.112 In/Sec	.493 G-s
21	.087 In/Sec	1.528 G-s
22	.187 In/Sec	.326 G-s
23		.301 G-s
31	.071 In/Sec	.468 G-s
32	.104 In/Sec	.550 G-s
33	.104 In/Sec .053 In/Sec	.169 G-s
41	.062 In/Sec	.238 G-s
42	.089 In/Sec	.569 G-s
51	.054 In/Sec	.171 G-s
53		.054 G-s
61		.285 G-s
71	.050 In/Sec	.216 G-s
81	.022 In/Sec	.311 G-s
83		.188 G-s
57 - A/1	B Concentr Vac Pmp-var RPM	(14-Jul-23)
	OVERALL LEVEL	1-20 KHz
11	.059 In/Sec	.431 G-s
12	.067 In/Sec	.196 G-s
21		.430 G-s
23		.143 G-s
71	.126 In/Sec	.931 G-s
81		.785 G-s
83		.313 G-s
2130-1 - हाः	ASH VAP VAC PUMP-var speed	(14Tu1-23)
2130 1 111	OVERALL LEVEL	
11	.053 In/Sec	.404 G-s
12	.075 In/Sec	
		.124 G-s
21	.042 In/Sec	.677 G-s
22	.313 In/Sec	.122 G-s
23	.151 In/Sec	.094 G-s
71	.071 In/Sec	.461 G-s
72	.122 In/Sec	.643 G-s
81	.066 In/Sec	1.120 G-s
82	.074 In/Sec	.698 G-s
83	.050 In/Sec	.756 G-s

C-203		- C-2	203 Comp		14-Jul-23)
0 200				OVERALL LEVEL	1-20 KHz
	11			.038 In/Sec	1.306 G-s
	12			.026 In/Sec	.598 G-s
	21			.028 In/Sec	1.019 G-s
	22			.018 In/Sec	.140 G-s
	23			.024 In/Sec	.427 G-s
				OVERALL LEVEL	1-20 KHZ
	71M			.052 In/Sec	2.947 G-s
	72M			.042 In/Sec	.867 G-s
	73M			.074 In/Sec	1.458 G-s
	81M			.046 In/Sec	6.418 G-s
	82M			.040 In/Sec	1.217 G-s
	71F 72F			.046 In/Sec .050 In/Sec	3.594 G-s .805 G-s
	72F			.030 In/Sec	.718 G-s
	81F			.034 In/Sec	12.46 G-s
	82F			.037 In/Sec	.837 G-s
	021			.037 111, 500	.037 0 5
C-202		- C-2	202 Comp	(14-Jul-23)
				OVERALL LEVEL	1-20 KHz
	11			.085 In/Sec	3.332 G-s
	12			.154 In/Sec	1.672 G-s
	21			.068 In/Sec	.476 G-s
	22			.064 In/Sec	.342 G-s
	23			.046 In/Sec	.331 G-s
	7114			OVERALL LEVEL	1-20 KHZ
	71M 72M			.056 In/Sec .030 In/Sec	5.218 G-s .659 G-s
	72M			.030 In/Sec	.800 G-s
	81M			.042 In/Sec	8.206 G-s
	82M			.042 In/Sec	.877 G-s
	71F			.040 In/Sec	14.21 G-s
	72F			.059 In/Sec	1.530 G-s
	73F			.059 In/Sec	2.644 G-s
	81F			.044 In/Sec	7.815 G-s
	81F 82F			.044 In/Sec .051 In/Sec	7.815 G-s 1.529 G-s
				.051 In/Sec	1.529 G-s
C-201		- C-2	201 Comp	.051 In/Sec	1.529 G-s 07-Jul-23)
C-201	82F	- C-2	201 Comp	.051 In/Sec (OVERALL LEVEL	1.529 G-s 07-Jul-23) 1-20 KHz
C-201	82F 11	- C-2	201 Comp	.051 In/Sec (OVERALL LEVEL .104 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s
C-201	82F 11 12	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s
C-201	82F 11 12 21	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s
C-201	82F 11 12 21 22	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s
C-201	82F 11 12 21	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s
C-201	82F 11 12 21 22	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s
C-201	82F 11 12 21 22 23	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s 1-20 KHZ
C-201	82F 11 12 21 22 23 71M	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s 1-20 KHZ 5.528 G-s
C-201	82F 11 12 21 22 23 71M 72M	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s 1-20 KHz 5.528 G-s .630 G-s
C-201	11 12 21 22 23 71M 72M 73M 81M 82M	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s 1-20 KHZ 5.528 G-s .630 G-s .735 G-s
C-201	11 12 21 22 23 71M 72M 73M 81M 82M 71F	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .055 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s 1-20 KHZ 5.528 G-s .630 G-s .735 G-s 7.267 G-s 1.000 G-s 4.113 G-s
C-201	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .055 In/Sec .049 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s 1-20 KHZ 5.528 G-s .630 G-s .735 G-s 7.267 G-s 1.000 G-s 4.113 G-s 1.241 G-s
C-201	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .055 In/Sec .049 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s 1-20 KHZ 5.528 G-s .630 G-s .735 G-s 7.267 G-s 1.000 G-s 4.113 G-s 1.241 G-s .943 G-s
C-201	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F 81F	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .055 In/Sec .049 In/Sec .045 In/Sec .093 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s 1-20 KHZ 5.528 G-s .630 G-s .735 G-s 7.267 G-s 1.000 G-s 4.113 G-s 1.241 G-s .943 G-s
C-201	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F	- C-2	201 Comp	.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .055 In/Sec .049 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s 1-20 KHZ 5.528 G-s .630 G-s .735 G-s 7.267 G-s 1.000 G-s 4.113 G-s 1.241 G-s .943 G-s
	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F 81F 82F			.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .055 In/Sec .049 In/Sec .045 In/Sec .093 In/Sec .093 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s 1-20 KHZ 5.528 G-s .630 G-s .735 G-s 7.267 G-s 1.000 G-s 4.113 G-s 1.241 G-s .943 G-s 20.85 G-s 1.884 G-s
	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F 81F 82F			.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .055 In/Sec .049 In/Sec .045 In/Sec .093 In/Sec .093 In/Sec	1.529 G-s 07-Jul-23) 1-20 KHz 2.417 G-s .864 G-s .869 G-s .332 G-s .288 G-s 1-20 KHZ 5.528 G-s .630 G-s .735 G-s 7.267 G-s 1.000 G-s 4.113 G-s 1.241 G-s .943 G-s
	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F 81F 82F			.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .055 In/Sec .049 In/Sec .049 In/Sec .045 In/Sec .058 In/Sec	1.529 G-s 07-Jul-23)
	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F 81F 82F			.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .049 In/Sec .049 In/Sec .045 In/Sec .045 In/Sec .058 In/Sec .047 In/Sec .048 In/Sec .049 In/Sec .049 In/Sec .045 In/Sec .045 In/Sec .045 In/Sec .058 In/Sec	1.529 G-s 07-Jul-23)
	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F 81F 82F			.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .049 In/Sec .049 In/Sec .045 In/Sec .045 In/Sec .045 In/Sec .045 In/Sec .047 In/Sec .048 In/Sec .049 In/Sec .049 In/Sec .049 In/Sec .040 In/Sec .041 In/Sec .042 In/Sec	1.529 G-s 07-Jul-23)
	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F 81F 82F			.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .106 In/Sec .038 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .037 In/Sec .036 In/Sec .036 In/Sec .031 In/Sec .049 In/Sec .049 In/Sec .045 In/Sec .045 In/Sec .045 In/Sec .058 In/Sec .093 In/Sec .093 In/Sec .093 In/Sec .093 In/Sec .094 In/Sec .096 In/Sec	1.529 G-s 07-Jul-23)
	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F 81F 82F			.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .061 In/Sec .038 In/Sec .064 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .031 In/Sec .049 In/Sec .049 In/Sec .045 In/Sec .058 In/Sec .093 In/Sec .058 In/Sec .058 In/Sec .059 In/Sec .096 In/Sec .045 In/Sec .045 In/Sec .045 In/Sec	1.529 G-s 07-Jul-23)
	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F 81F 82F			.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .061 In/Sec .038 In/Sec .064 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .035 In/Sec .049 In/Sec .049 In/Sec .045 In/Sec .058 In/Sec .093 In/Sec .058 In/Sec .058 In/Sec .059 In/Sec .096 In/Sec .045 In/Sec .045 In/Sec .045 In/Sec	1.529 G-s 07-Jul-23)
	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F 81F 82F			.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .061 In/Sec .038 In/Sec .064 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .031 In/Sec .049 In/Sec .049 In/Sec .045 In/Sec .058 In/Sec .093 In/Sec .058 In/Sec .058 In/Sec .059 In/Sec .096 In/Sec .045 In/Sec .045 In/Sec .045 In/Sec	1.529 G-s 07-Jul-23)
	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F 81F 82F			.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .061 In/Sec .064 In/Sec .064 In/Sec .064 In/Sec .067 In/Sec .067 In/Sec .036 In/Sec .036 In/Sec .031 In/Sec .049 In/Sec .049 In/Sec .045 In/Sec .058 In/Sec .093 In/Sec .093 In/Sec .094 In/Sec .058 In/Sec .095 In/Sec .096 In/Sec .0972 In/Sec .0989 In/Sec .046 In/Sec .046 In/Sec .046 In/Sec	1.529 G-s 07-Jul-23)
	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 81F 82F 11 12 13 21 22 23 71F 72F			.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .061 In/Sec .064 In/Sec .064 In/Sec .064 In/Sec OVERALL LEVEL .058 In/Sec .037 In/Sec .067 In/Sec .036 In/Sec .031 In/Sec .035 In/Sec .049 In/Sec .045 In/Sec .045 In/Sec .058 In/Sec .093 In/Sec .093 In/Sec .094 In/Sec .058 In/Sec .058 In/Sec .058 In/Sec .059 In/Sec .096 In/Sec .097 In/Sec .099 In/Sec	1.529 G-s 07-Jul-23)
	11 12 21 22 23 71M 72M 73M 81M 82M 71F 72F 73F 81F 82F			.051 In/Sec OVERALL LEVEL .104 In/Sec .061 In/Sec .061 In/Sec .064 In/Sec .064 In/Sec .064 In/Sec .067 In/Sec .067 In/Sec .036 In/Sec .036 In/Sec .031 In/Sec .049 In/Sec .049 In/Sec .045 In/Sec .058 In/Sec .093 In/Sec .093 In/Sec .094 In/Sec .058 In/Sec .095 In/Sec .096 In/Sec .0972 In/Sec .0989 In/Sec .046 In/Sec .046 In/Sec .046 In/Sec	1.529 G-s 07-Jul-23)

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82F
                             .333 In/Sec
                                              1.672 G-s
                                           1.672 G-s
1.443 G-s
8.545 G-s
      83F
                             .257 In/Sec
                             .091 In/Sec
      71M
                                           2.167 G-s
1.803 G-s
5.859 G-s
                             .107 In/Sec
      72M
                             .103 In/Sec
      73M
      81M
                             .127 In/Sec
                             .282 In/Sec
      82M
                                             2.501 G-s
      83M
                             .120 In/Sec
                                              2.074 G-s
201-08A - COMPRESSOR, NASH A 201-08A (14-Jul-23)
                            OVERALL LEVEL 1-20 KHz
                                             .138 G-s
      11
                             .072 In/Sec
                             .044 In/Sec
                                              .097 G-s
      12
                                              .105 G-s
      13
                             .137 In/Sec
      21
                             .048 In/Sec
                                               .145 G-s
      22
                             .085 In/Sec
                                               .211 G-s
                             .124 In/Sec
      23
                                              .209 G-s
                             .166 In/Sec
                                              .479 G-s
      71
                                              .141 G-s
      72
                             .148 In/Sec
                                              .156 G-s
      73
                             .134 In/Sec
                             .153 In/Sec
                                              .184 G-s
      81
      82
                             .180 In/Sec
                                              .155 G-s
      83
                             .123 In/Sec
                                              .208 G-s
                                      (14-Jul-23)
9002-10 - D-HYDROGENATOR AGITATOR
                            OVERALL LEVEL 1-20 KHz
                                             .255 G-s
                             .070 In/Sec
      11
                             .069 In/Sec
                                              .248 G-s
      21
                                              .064 G-s
      23
                             .078 In/Sec
                            OVERALL LEVEL
                                             1-20 KHZ
                                            .878 G-s
.904 G-s
                             .148 In/Sec
      31
                             .132 In/Sec
      31L
                            OVERALL LEVEL
                                             1-20 KHz
                                             .252 G-s
                             .276 In/Sec
      51
                                              .252 G-s
      51L
                             .276 In/Sec
                             .067 In/Sec
      52
                                              .326 G-s
      52L
                             .237 In/Sec
                                              .565 G-s
                             .207 In/Sec
                                             .194 G-s
      53
                                              .602 G-s
                             .090 In/Sec
      53L
                                              .304 G-s
      61
                             .168 In/Sec
                                               .304 G-s
      61L
                             .111 In/Sec
                             .040 In/Sec
                                               .038 G-s
      81
                             .026 In/Sec
                                               .076 G-s
      82
      83
                             .036 In/Sec
                                               .017 G-s
9003-01 - D-HYDRO PRIMARY FILT FD PUMP (14-Jul-23)
                            OVERALL LEVEL 1-20 KHz
      11
                             .040 In/Sec
                                              .540 G-s
      21
                             .041 In/Sec
                                             2.522 G-s
                                             .317 G-s
      23
                             .044 In/Sec
      71
                             .087 In/Sec
                                              .308 G-s
      72
                             .091 In/Sec
                                              .297 G-s
9001-01 - D-HYDRO SECOND. FILT FD PUMP (14-Jul-23)
                            OVERALL LEVEL 1-20 KHz
                                              .424 G-s
      11
                             .057 In/Sec
                              .049 In/Sec
                                              .478 G-s
      21
                                              .100 G-s
      23
                             .055 In/Sec
      71
                              .073 In/Sec
                                               .369 G-s
      72
                             .102 In/Sec
                                               .277 G-s
192-03 - Two Stage Water Pump A-WEST (14-Jul-23)
                            OVERALL LEVEL 1-20 KHz
      11
                             .078 In/Sec
                                             1.524 G-s
                                             .873 G-s
      21
                             .086 In/Sec
      23
                             .056 In/Sec
                                              .256 G-s
                             .155 In/Sec 1.617 G-s
.069 In/Sec 1.018 G-s
      71
      72
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191-07	_	M MIX	BED	WATER	PUMP 1	.91-07	(14-Jul-23))
					OVERA	LL LEVEL	1-20	KHz
	11				.086	In/Sec	.505	G-s
	21				.061	In/Sec	.481	G-s
	23				.078	In/Sec	.133	G-s
	71				. 252	In/Sec	. 339	G-s
	72				.247	In/Sec	.110	G-s

Clarification Of Vibration Units:

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

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

Sincerely,

ISO Certified Vibration Analyst, Category III

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QualiTest_® Diagnostics

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