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ANAB ACCREDITED ISO/IEC 17021 MANAGEMENT SYSTEMS CERTIFICATION BODY

DEMO Wireless Vibration Sensor Report For Rotating Machines

Ocean®
Life's pleasure

Ocean Glass Public Company Limited

Muangsamutprakarn, Samutprakarn

Report by: Ms. Sirianunta Ruttanapraromya

18th -25th December 2020

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General Data

Job Order No	: DEMO Wireless Vibration	Measured Date	: December 18-25, 2020
Plant	: Ocean Glass Public Company Limited	Unit	: Main Fan MDP3
Equipment	: Fan	Speed	: 2600 RPM
Motor	: 55 kW. (VFD)	Nameplate/Running Speed	: 2958/2600 RPM
Coupling	: DIRECT DRIVE		

Technical Data

Vibration Equipment	: ERBESSD
Vibration Transducer	: WIRELESS PHANTOM
Unit	: mm/s_{rms}
Operation Condition	: On Load

Code Explanation

Position Code	Explanation
MTR-DE	Motor Drive End bearing

Direction Code	Explanation
V	Vertical direction of the vibration detection
H	Horizontal direction of the vibration detection
A	Axial direction of the vibration detection

Machine Severity

ISO Code	Explanation
ISO 10816-3	Group 2: Medium sized machine (power 15 - 300 kW)

Severity Code		Explanation
Normal	< 4.5 mm/s_{rms}	For unlimited long-term operation allowable
Alarm	4.5 – 7.1 mm/s_{rms}	For short-term operation allowable
Danger	> 7.1 mm/s_{rms}	Vibration causes damage

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Measurement Report

Location	Date & Time	H	V	A	Unit	Severity
MTR-DE	2020-12-18 16:14:37	2.162	7.027	2.939	mm/s	Alarm
	2020-12-18 18:14:23	2.275	7.607	2.153	mm/s	Danger
	2020-12-18 20:14:38	2.143	6.554	2.419	mm/s	Alarm
	2020-12-18 22:14:37	2.114	5.535	2.294	mm/s	Alarm
	2020-12-19 00:14:38	2.150	8.137	2.047	mm/s	Danger
	2020-12-19 04:16:09	2.232	6.918	2.941	mm/s	Alarm
	2020-12-19 08:14:41	2.167	9.783	2.535	mm/s	Danger
	2020-12-19 12:14:42	2.214	6.326	2.009	mm/s	Alarm
	2020-12-19 16:13:15	2.280	6.756	2.275	mm/s	Alarm
	2020-12-19 20:14:45	2.109	6.396	1.955	mm/s	Alarm
	2020-12-20 00:31:32	0.255	0.975	0.267	mm/s	Normal
	2020-12-20 04:33:20	0.294	0.758	0.281	mm/s	Normal
	2020-12-20 07:42:49	8.685	1.550	0.560	mm/s	Danger
	2020-12-20 08:14:49	2.339	10.316	2.379	mm/s	Danger
	2020-12-20 12:14:51	0.343	1.155	0.270	mm/s	Normal
	2020-12-20 16:14:50	2.132	7.654	1.811	mm/s	Danger
	2020-12-20 20:14:53	2.103	7.134	2.171	mm/s	Danger
	2020-12-21 00:00:54	2.413	8.523	2.934	mm/s	Danger
	2020-12-21 04:14:55	2.270	5.828	1.801	mm/s	Alarm
	2020-12-21 08:14:57	2.441	6.565	2.236	mm/s	Alarm
	2020-12-21 12:49:39	0.382	0.737	0.425	mm/s	Normal
	2020-12-21 16:15:00	0.290	1.327	0.373	mm/s	Normal
	2020-12-21 20:15:00	2.235	7.748	2.351	mm/s	Danger
	2020-12-22 00:15:02	2.505	6.974	2.425	mm/s	Alarm
	2020-12-22 04:15:03	2.421	5.019	2.006	mm/s	Alarm
	2020-12-22 08:15:04	2.399	5.603	1.804	mm/s	Alarm
	2020-12-22 12:01:09	0.337	1.111	0.283	mm/s	Normal
	2020-12-22 16:15:07	2.191	6.672	2.524	mm/s	Alarm
	2020-12-22 20:15:08	2.235	5.799	2.087	mm/s	Alarm
	2020-12-23 00:02:09	2.353	6.167	2.626	mm/s	Alarm
	2020-12-23 04:15:11	2.259	7.113	2.238	mm/s	Danger
	2020-12-23 08:15:12	2.458	5.678	2.370	mm/s	Alarm
	2020-12-23 12:15:13	2.237	7.255	2.093	mm/s	Danger
	2020-12-23 16:15:15	2.408	6.082	3.242	mm/s	Alarm
	2020-12-23 20:17:54	0.314	0.970	0.336	mm/s	Normal
	2020-12-24 00:15:16	2.165	5.926	1.998	mm/s	Alarm
	2020-12-24 04:15:19	2.068	6.561	1.942	mm/s	Alarm
	2020-12-24 08:15:21	2.140	7.546	2.055	mm/s	Danger
	2020-12-24 12:15:20	2.573	8.831	2.595	mm/s	Danger
	2020-12-24 16:17:23	2.249	5.374	2.281	mm/s	Alarm
	2020-12-24 20:15:23	2.101	8.185	2.090	mm/s	Danger
	2020-12-25 00:15:26	2.146	7.595	2.488	mm/s	Danger
	2020-12-25 04:15:26	2.461	6.811	2.504	mm/s	Alarm
	2020-12-25 06:15:27	2.157	5.316	2.033	mm/s	Alarm
	2020-12-25 08:15:28	2.234	6.575	3.032	mm/s	Alarm

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Location	Date & Time	Internal Temperature	Unit
MTR-DE	2020-12-18 16:14:40	40.75	ºC
	2020-12-18 18:14:33	42	ºC
	2020-12-18 20:14:49	41.25	ºC
	2020-12-18 22:14:47	40.75	ºC
	2020-12-19 00:14:49	40	ºC
	2020-12-19 04:16:26	37.5	ºC
	2020-12-19 08:14:58	37.25	ºC
	2020-12-19 12:14:54	38.75	ºC
	2020-12-19 16:13:28	41	ºC
	2020-12-19 20:14:55	40.75	ºC
	2020-12-20 00:31:32	25.5	ºC
	2020-12-20 04:33:20	23	ºC
	2020-12-20 08:14:58	22.75	ºC
	2020-12-20 12:14:59	35.5	ºC
	2020-12-20 16:15:02	38.25	ºC
	2020-12-20 20:15:02	36.75	ºC
	2020-12-21 00:15:11	35	ºC
	2020-12-21 04:15:08	32.25	ºC
	2020-12-21 08:15:11	32	ºC
	2020-12-21 12:49:38	25	ºC
	2020-12-21 16:15:12	37.75	ºC
	2020-12-21 20:15:11	35.5	ºC
	2020-12-22 00:15:11	34.25	ºC
	2020-12-22 04:15:14	32.5	ºC
	2020-12-22 08:15:16	32.75	ºC
	2020-12-22 12:01:09	25.5	ºC
	2020-12-22 16:15:18	38.5	ºC
	2020-12-22 20:15:18	36.75	ºC
	2020-12-23 00:15:20	35	ºC
	2020-12-23 04:15:22	33	ºC
	2020-12-23 08:15:23	32.25	ºC
	2020-12-23 12:15:29	38	ºC
	2020-12-23 16:15:28	39.75	ºC
	2020-12-23 20:17:55	28.5	ºC
	2020-12-24 00:15:27	37.25	ºC
	2020-12-24 04:15:29	35.5	ºC
	2020-12-24 08:15:35	35	ºC
	2020-12-24 12:03:37	38.75	ºC
	2020-12-24 16:17:37	40.25	ºC
	2020-12-24 20:15:35	40.25	ºC
	2020-12-25 00:15:36	40.25	ºC
	2020-12-25 04:15:38	38.5	ºC
	2020-12-25 06:15:39	38.25	ºC
	2020-12-25 08:15:47	37.75	ºC
	2020-12-18 16:14:40	40.75	ºC

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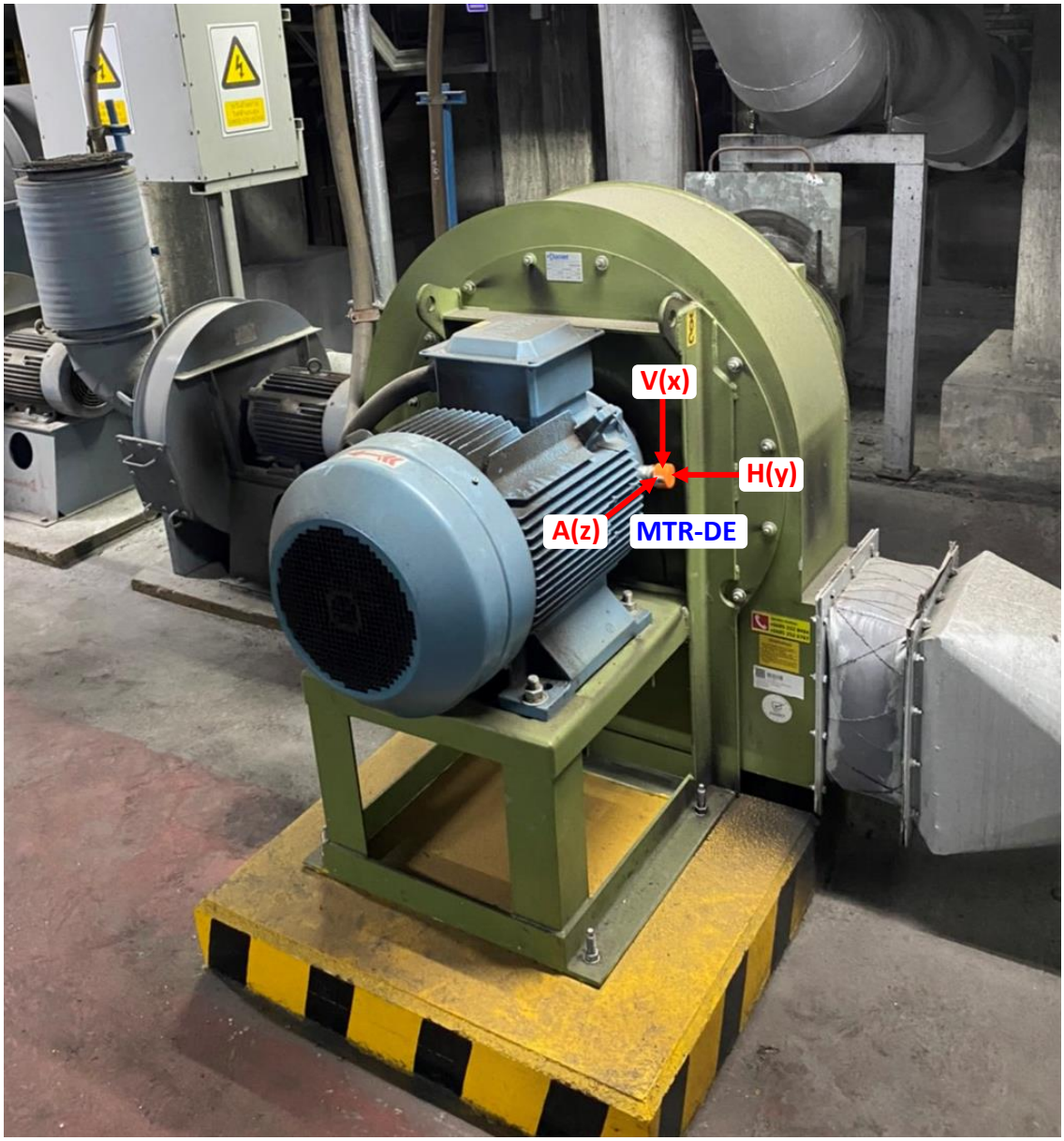
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LAST MAGNITUDE MEASUREMENT REPORT

Main Fan MDP3

DATE : 18-25 DEC 2020

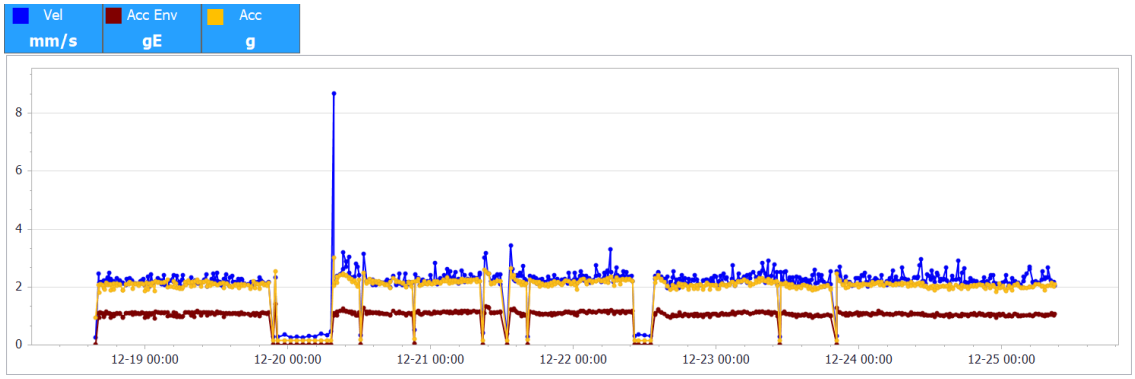
COLLECT DATA : Every 30 minutes (48 times/day)



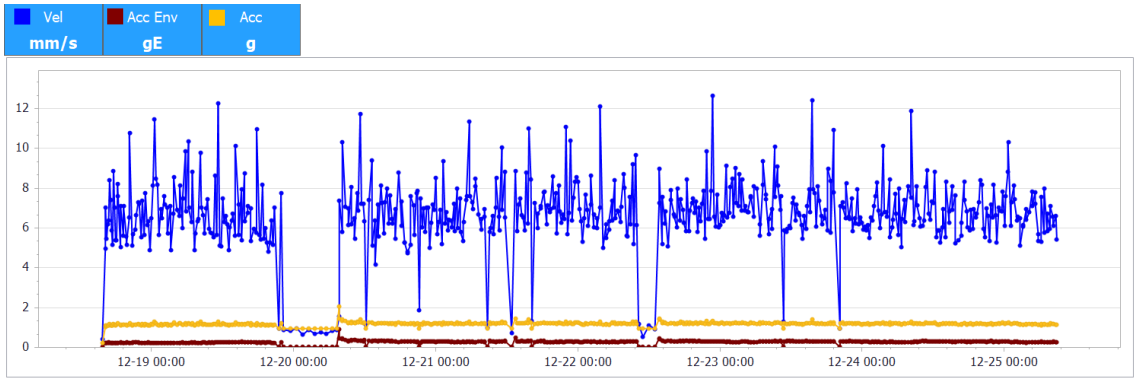
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TREND REPORT

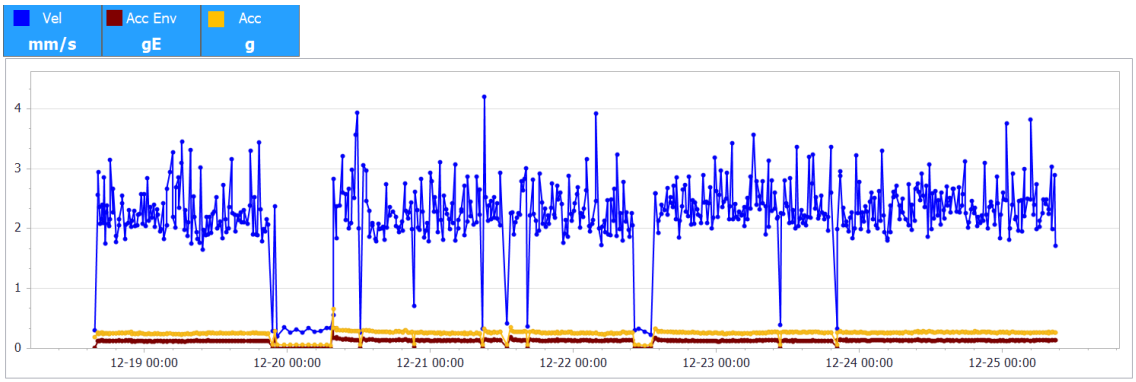
HORIZONTAL



VERTICAL



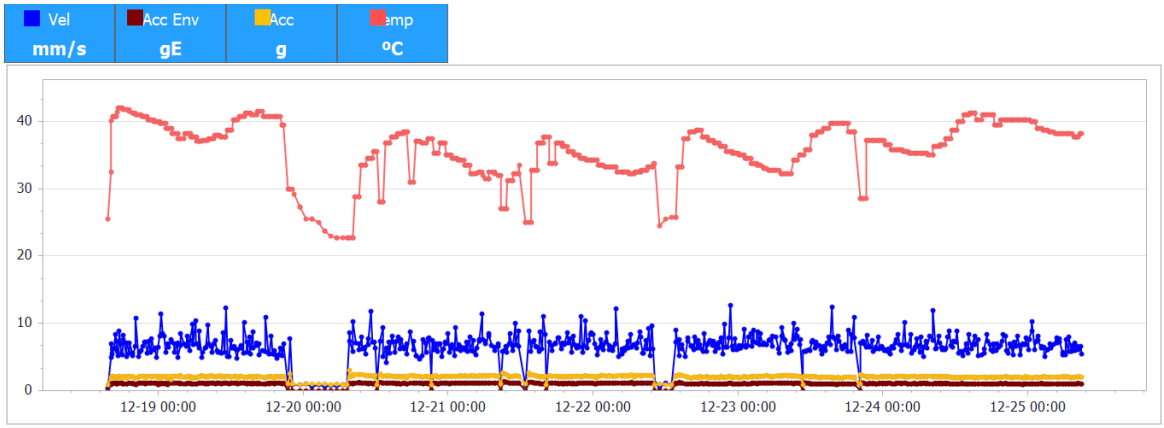
AXIAL



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TEMPERATURE (VIBRETION SENSOR)



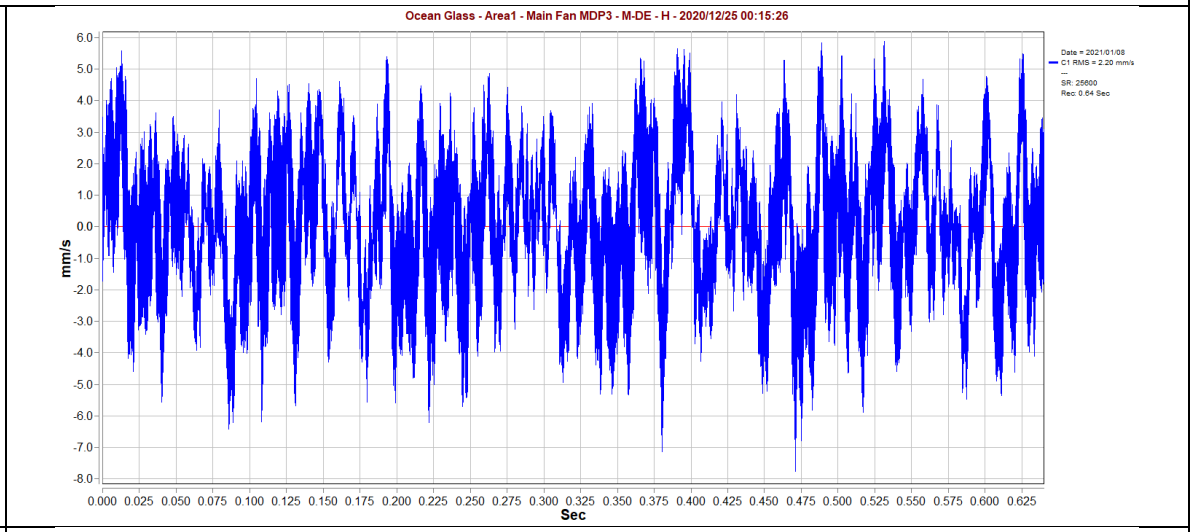
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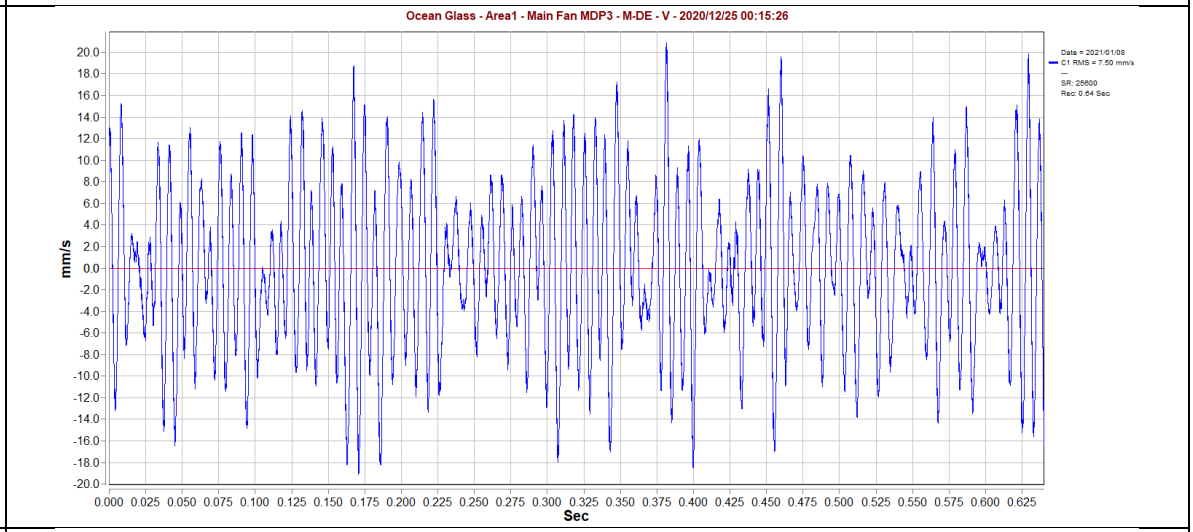
TIME WAVE FORM REPORT

Run speed 2600 rpm

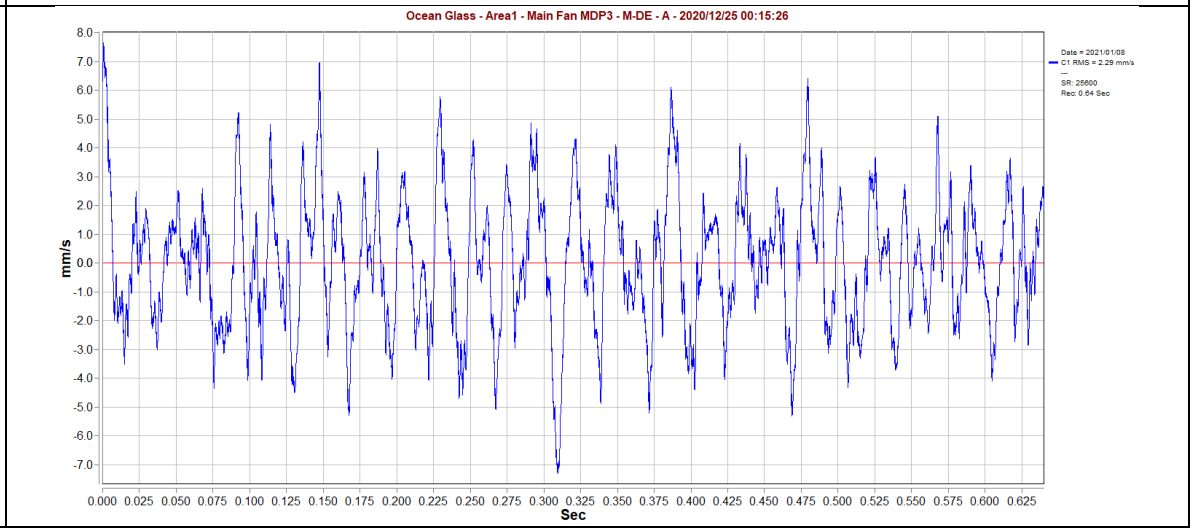
HORIZONTAL



VERTICAL



AXIAL



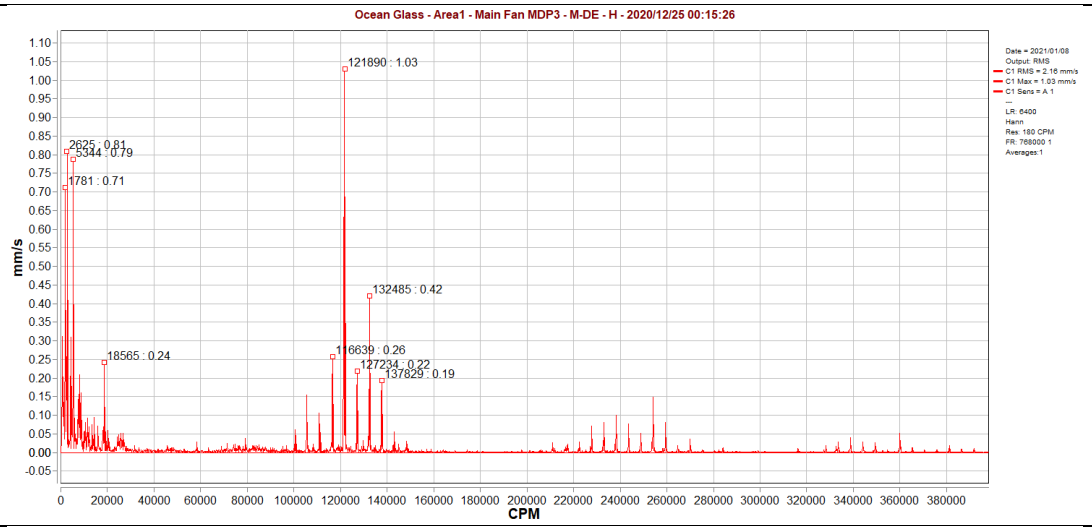
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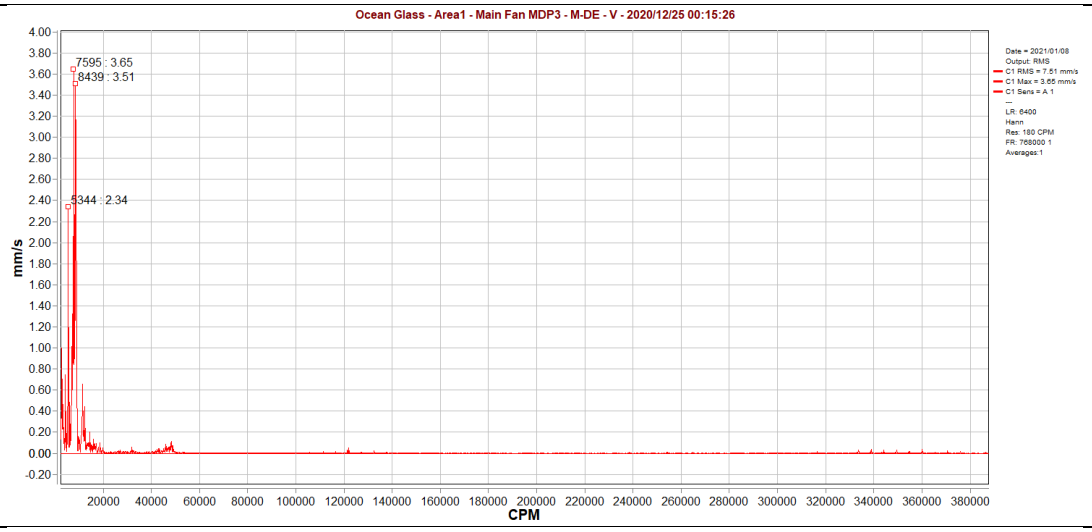
SPECTRUM REPORT

Run speed 2600 rpm

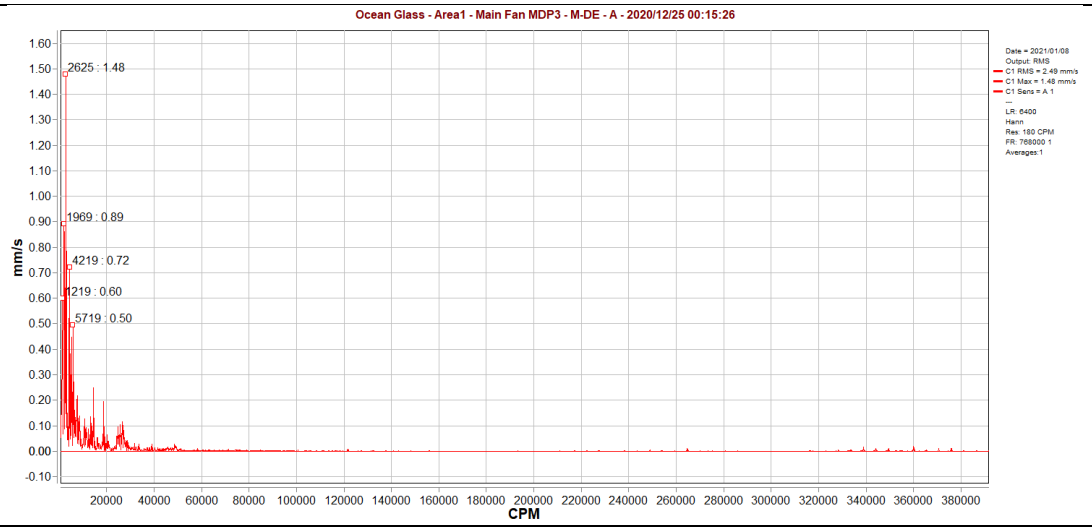
HORIZONTAL



VERTICAL



AXIAL



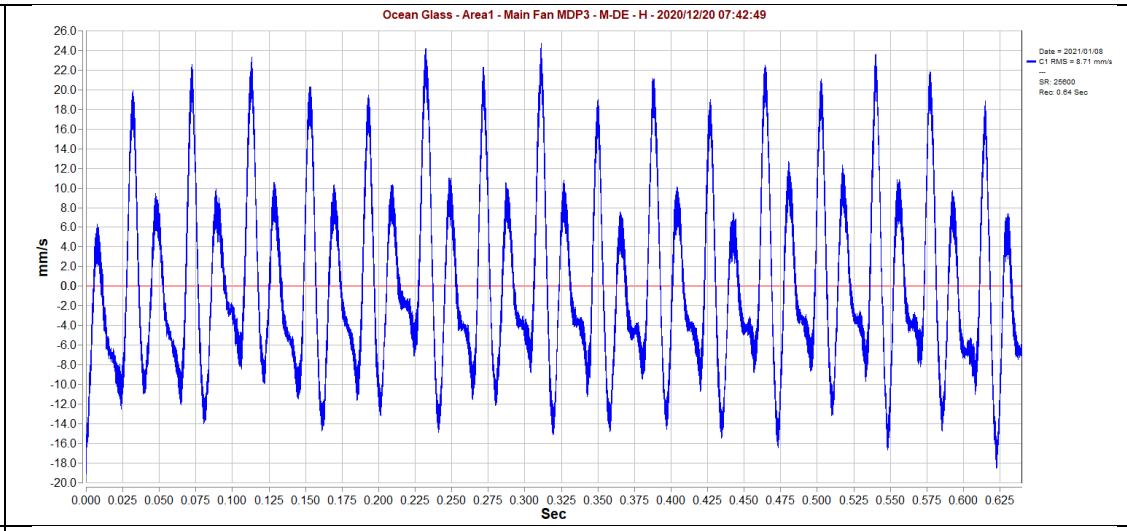
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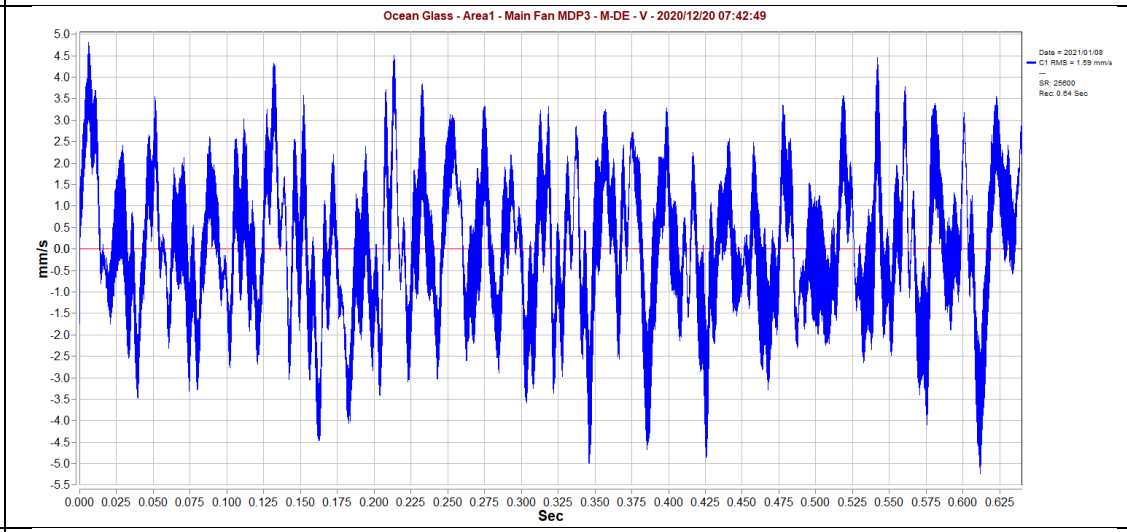
TIME WAVE FORM REPORT

Run speed 1594 rpm

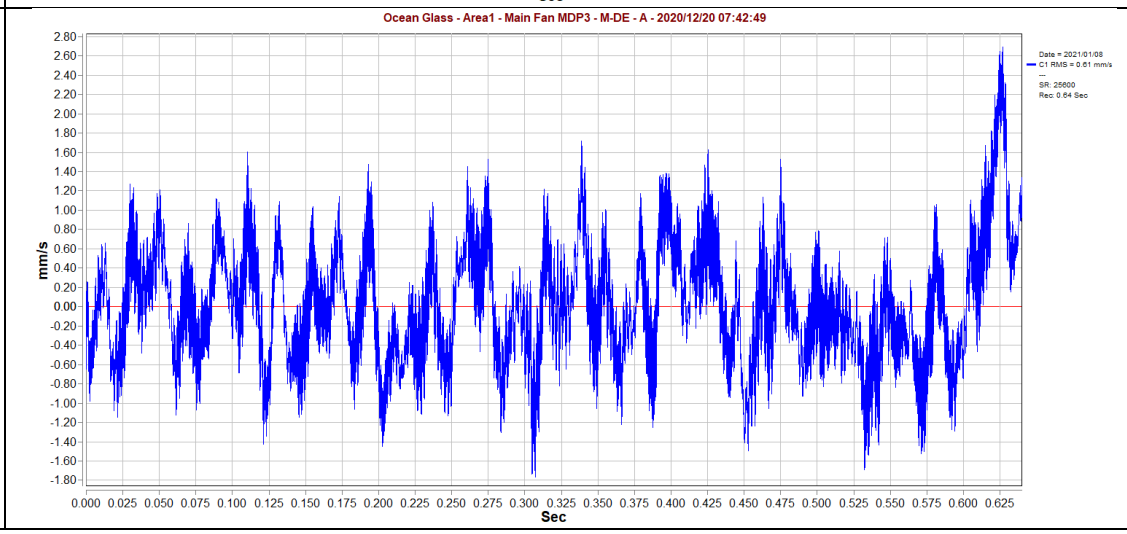
HORIZONTAL



VERTICAL



AXIAL



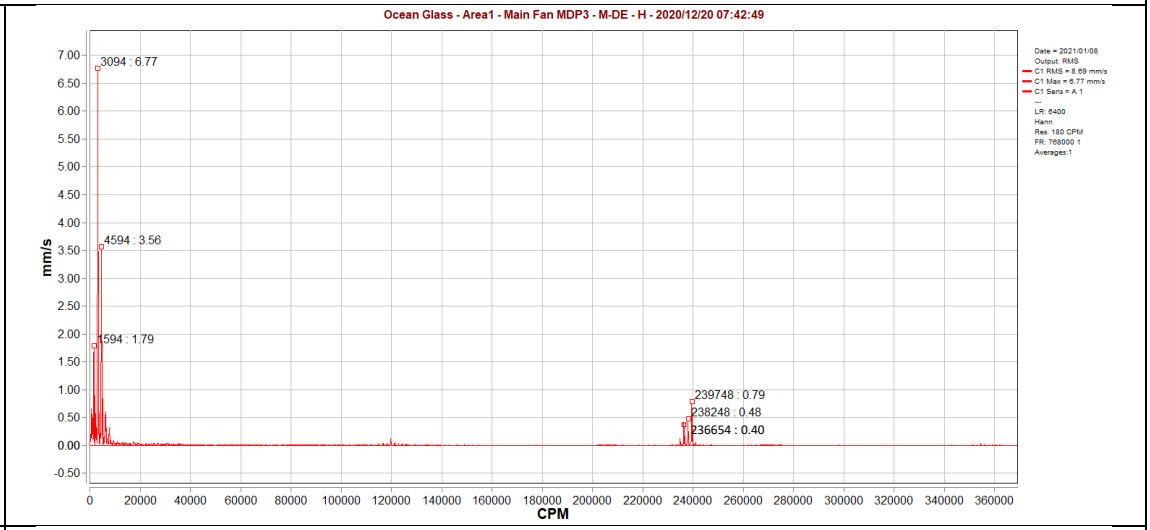
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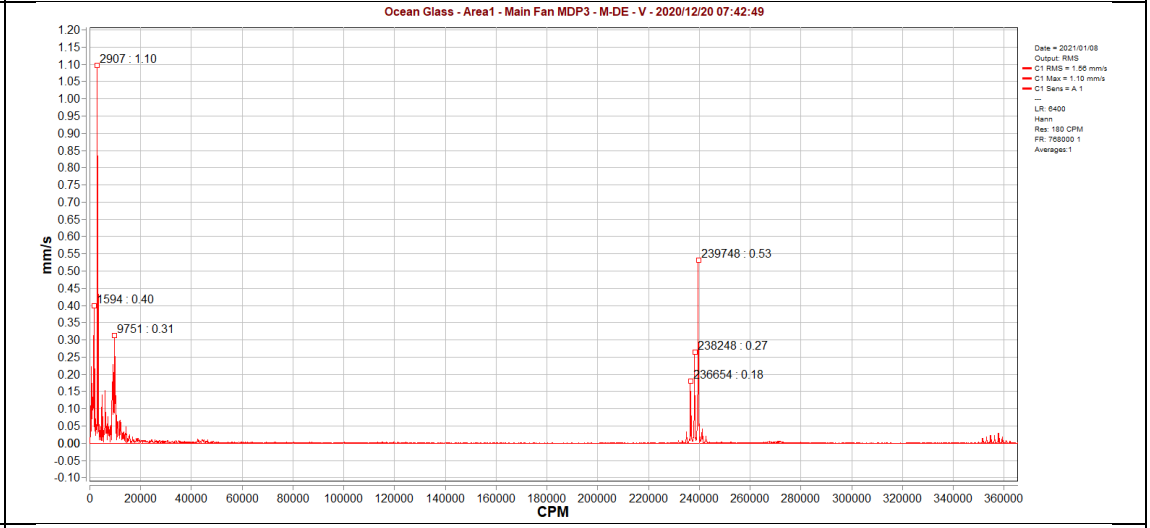
SPECTRUM REPORT

Run speed 1594 rpm

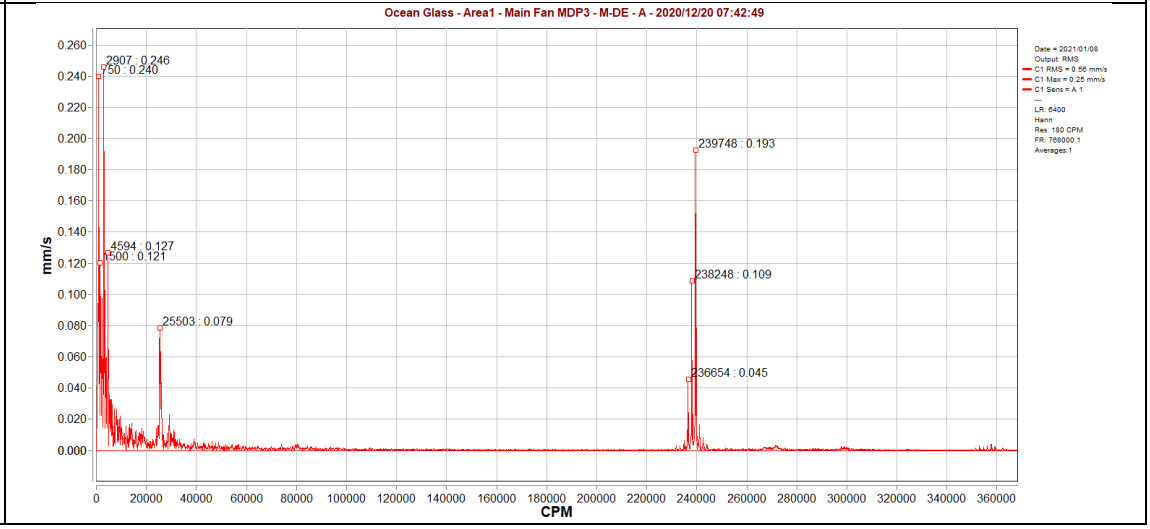
HORIZONTAL



VERTICAL



AXIAL



ANALYSIS AND RECOMMENDED

Inspected different high domimant peaks at each axis; 3093 cpm, 4583 cpm and 121795 cpm at horizontal, 5251 cpm and 7591 cpm at vertical. The amplitudes at these frequency were more than 4 times comparing with the other axes which indicated the resonance problem. The structure is recommended to be inspected or verified.

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349 Soi On-Nuch 39 , On-Nuch road, Suanluang, Suanluang, Bangkok 10250 Thailand
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Tel. (662) 7214191-2 Fax. (662) 7214190 Email: pairojv@advancesiam.com
Website: www.advancesiam.com Tax ID: 0105539065785
PERRY JOHNSON REGISTRARS, INC. ISO9001:2015 CERTIFIED
ANAB ACCREDITED ISO/IEC 17021 MANAGEMENT SYSTEMS CERTIFICATION BODY

General Data

Job Order No	: DEMO Wireless Vibration	Measured Date	: December 18-25, 2020
Plant	: Ocean Glass Public Company Limited	Unit	: Vacuum Pump
Equipment	: Pump	Speed	: 980 RPM
Motor	: 30 kW.	Nameplate/Running Speed	: 980/980 RPM
Coupling	: DIRECT DRIVE		

Technical Data

Vibration Equipment	: ERBESSD
Vibration Transducer	: WIRELESS PHANTOM
Unit	: mm/s_{rms}
Operation Condition	: On Load

Code Explanation

Position Code	Explanation
P-DE	Pump Drive End bearing
MTR-DE(T)	Motor Drive End bearing (Temp)

Direction Code	Explanation
V	Vertical direction of the vibration detection
H	Horizontal direction of the vibration detection
A	Axial direction of the vibration detection

ISO Code	Explanation
ISO 10816-3	Group 2: Medium sized machine (power 15 - 300 kW)

Severity Code		Explanation
Normal	< 4.5 mm/s_{rms}	For unlimited long-term operation allowable
Alarm	4.5 – 7.1 mm/s_{rms}	For short-term operation allowable
Danger	> 7.1 mm/s_{rms}	Vibration causes damage

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Measurement Report

Location	Date & Time	H	V	A	Unit	Severity
P-DE	2020-12-18 16:15:43	1.696	2.200	3.459	mm/s	Normal
	2020-12-18 18:20:44	1.833	2.388	3.977	mm/s	Normal
	2020-12-18 20:16:16	1.965	2.668	4.397	mm/s	Normal
	2020-12-18 22:17:31	1.869	2.560	4.060	mm/s	Normal
	2020-12-19 00:18:45	1.927	2.784	4.346	mm/s	Normal
	2020-12-19 04:15:42	1.927	2.677	4.473	mm/s	Normal
	2020-12-19 08:20:49	2.110	2.862	4.909	mm/s	Alarm
	2020-12-19 12:19:10	1.858	2.568	4.574	mm/s	Alarm
	2020-12-19 16:19:40	2.053	2.837	4.863	mm/s	Alarm
	2020-12-19 20:20:38	2.096	2.841	5.404	mm/s	Alarm
	2020-12-20 00:16:09	2.100	2.842	5.310	mm/s	Alarm
	2020-12-20 04:22:11	2.220	2.794	5.669	mm/s	Alarm
	2020-12-20 08:21:17	2.176	3.014	5.234	mm/s	Alarm
	2020-12-20 12:20:35	2.097	2.864	5.655	mm/s	Alarm
	2020-12-20 16:16:35	2.170	2.797	5.305	mm/s	Alarm
	2020-12-20 20:19:35	2.070	2.721	5.269	mm/s	Alarm
	2020-12-21 00:21:32	2.164	2.899	5.421	mm/s	Alarm
	2020-12-21 04:18:38	2.096	2.776	5.123	mm/s	Alarm
	2020-12-21 08:16:30	2.167	2.959	6.308	mm/s	Alarm
	2020-12-21 12:17:00	2.114	2.841	5.202	mm/s	Alarm
	2020-12-21 16:16:28	1.908	2.769	4.150	mm/s	Normal
	2020-12-21 20:18:31	2.010	3.135	4.849	mm/s	Alarm
	2020-12-22 00:15:57	1.984	3.149	4.531	mm/s	Alarm
	2020-12-22 04:19:00	1.955	2.686	4.195	mm/s	Normal
	2020-12-22 08:16:24	1.923	2.721	4.613	mm/s	Alarm
	2020-12-22 12:19:25	1.995	2.756	4.534	mm/s	Alarm
	2020-12-22 16:17:53	1.932	3.077	4.306	mm/s	Normal
	2020-12-22 18:47:52	3.593	6.037	11.077	mm/s	Danger
	2020-12-22 19:24:52	4.859	7.072	10.288	mm/s	Danger
	2020-12-22 20:15:52	1.876	2.839	3.930	mm/s	Normal
	2020-12-23 00:17:53	2.995	5.024	8.658	mm/s	Danger
	2020-12-23 04:19:53	1.819	2.951	4.138	mm/s	Normal
	2020-12-23 08:16:18	1.892	2.699	4.277	mm/s	Normal
	2020-12-23 12:18:48	2.200	2.896	5.668	mm/s	Alarm
	2020-12-23 16:18:20	2.050	2.757	4.619	mm/s	Alarm
	2020-12-23 20:22:32	2.225	2.814	4.980	mm/s	Alarm
	2020-12-24 00:16:20	2.242	2.682	4.805	mm/s	Alarm
	2020-12-24 04:17:46	2.166	2.764	4.759	mm/s	Alarm
	2020-12-24 08:18:16	2.241	2.956	5.140	mm/s	Alarm
	2020-12-24 12:17:43	2.150	2.738	5.201	mm/s	Alarm
	2020-12-24 16:17:12	2.198	2.795	5.106	mm/s	Alarm
	2020-12-24 20:18:11	2.210	2.899	5.073	mm/s	Alarm
	2020-12-25 00:16:40	2.328	3.095	6.436	mm/s	Alarm
	2020-12-25 04:19:39	2.300	3.127	5.857	mm/s	Alarm
	2020-12-25 06:20:12	2.316	3.041	6.037	mm/s	Alarm
	2020-12-25 08:22:11	2.221	2.814	5.540	mm/s	Alarm

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Date & Time	P-DE (vibration sensor)	MTR-DE (non- contact temperature sensor)	Unit
2020-12-18 16:12:52	37.25	49.59	ºC
2020-12-18 18:12:50	38.75	48.91	ºC
2020-12-18 20:12:50	37.25	47.77	ºC
2020-12-18 22:12:49	37.25	47.53	ºC
2020-12-19 00:12:49	36.5	47.21	ºC
2020-12-19 04:12:48	34.5	45.51	ºC
2020-12-19 08:12:47	34.25	44.93	ºC
2020-12-19 12:12:46	38	47.85	ºC
2020-12-19 16:12:46	38	47.87	ºC
2020-12-19 20:12:45	35.75	46.91	ºC
2020-12-20 00:12:44	34	44.41	ºC
2020-12-20 04:12:44	32.25	43.33	ºC
2020-12-20 08:12:42	31	41.95	ºC
2020-12-20 12:12:41	34.25	44.39	ºC
2020-12-20 16:12:41	35	45.79	ºC
2020-12-20 20:12:40	34	44.71	ºC
2020-12-21 00:12:39	31.25	42.69	ºC
2020-12-21 04:12:38	29.75	40.67	ºC
2020-12-21 08:12:37	28.75	39.63	ºC
2020-12-21 12:12:37	32.5	42.99	ºC
2020-12-21 16:12:36	34.75	45.27	ºC
2020-12-21 20:12:35	33.25	43.61	ºC
2020-12-22 00:12:34	31	42.33	ºC
2020-12-22 04:12:33	29.25	40.83	ºC
2020-12-22 08:12:38	29.5	40.81	ºC
2020-12-22 12:12:32	34	44.93	ºC
2020-12-22 16:12:31	35.25	46.23	ºC
2020-12-22 20:12:38	33.75	46.29	ºC
2020-12-23 00:12:29	32	43.79	ºC
2020-12-23 04:12:28	29.5	41.39	ºC
2020-12-23 08:12:50	29	41.19	ºC
2020-12-23 12:12:27	34.5	45.19	ºC
2020-12-23 16:12:36	35.75	46.25	ºC
2020-12-23 20:12:25	33.5	44.49	ºC
2020-12-24 00:12:24	32.25	42.93	ºC
2020-12-24 04:12:25	31.25	42.15	ºC
2020-12-24 08:12:23	32.25	42.59	ºC
2020-12-24 12:12:28	35.75	46.35	ºC
2020-12-24 16:12:21	37.5	47.41	ºC
2020-12-24 20:12:26	36.25	46.71	ºC
2020-12-25 00:12:19	35.5	46.11	ºC
2020-12-25 04:12:18	34.75	44.97	ºC
2020-12-25 06:12:18	34.5	44.93	ºC
2020-12-25 08:12:18	34.25	44.97	ºC

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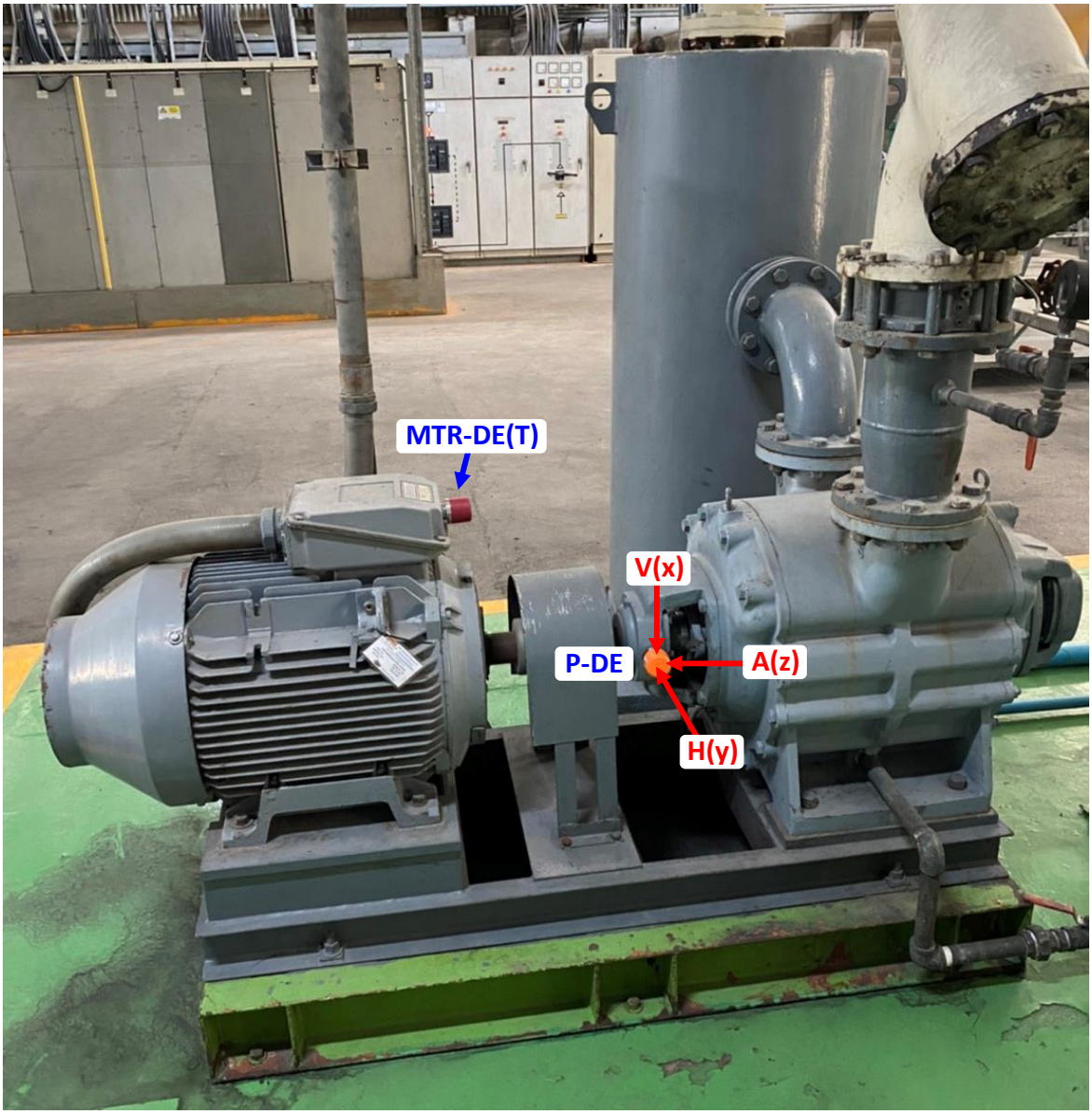
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LAST MAGNITUDE MEASUREMENT REPORT

Vacuum Pump

DATE : 18-25 DEC 2020

COLLECT DATA : Every 30 minutes (48 times/day)

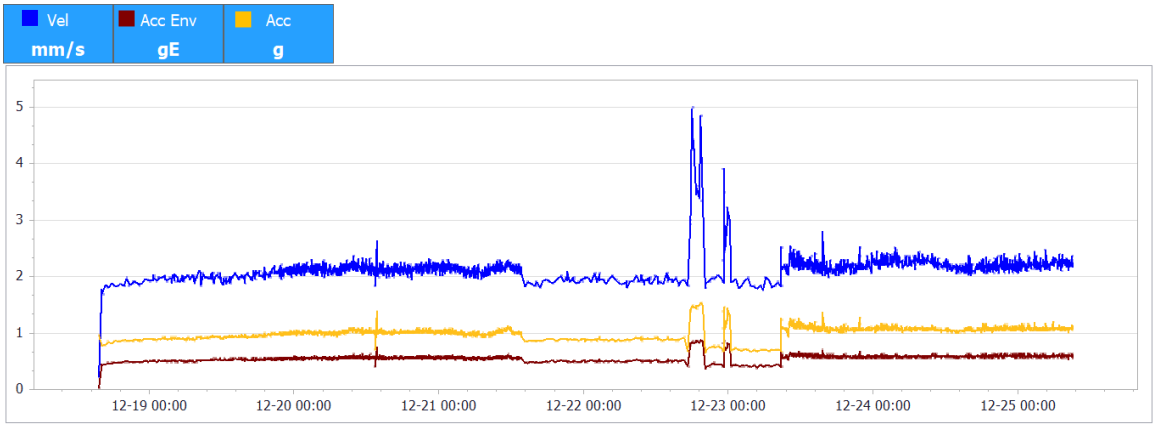


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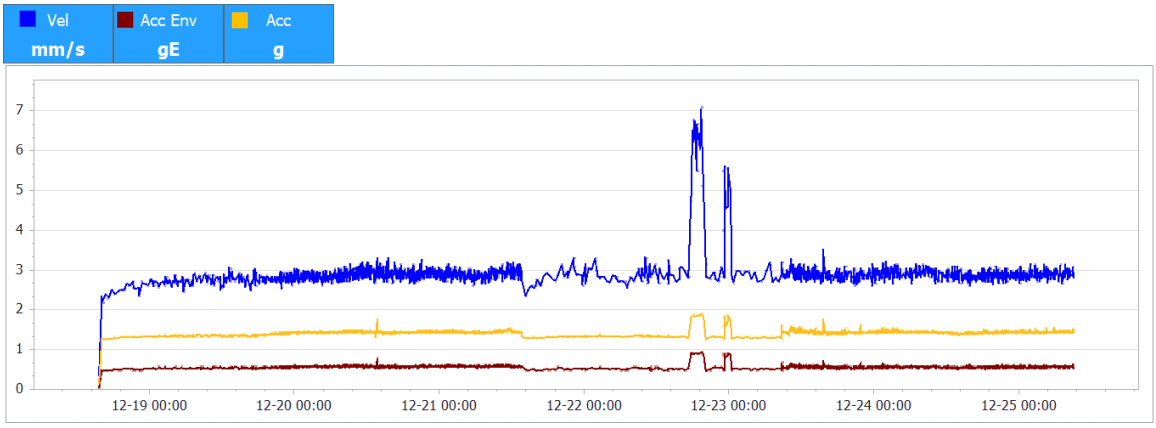
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TREND REPORT

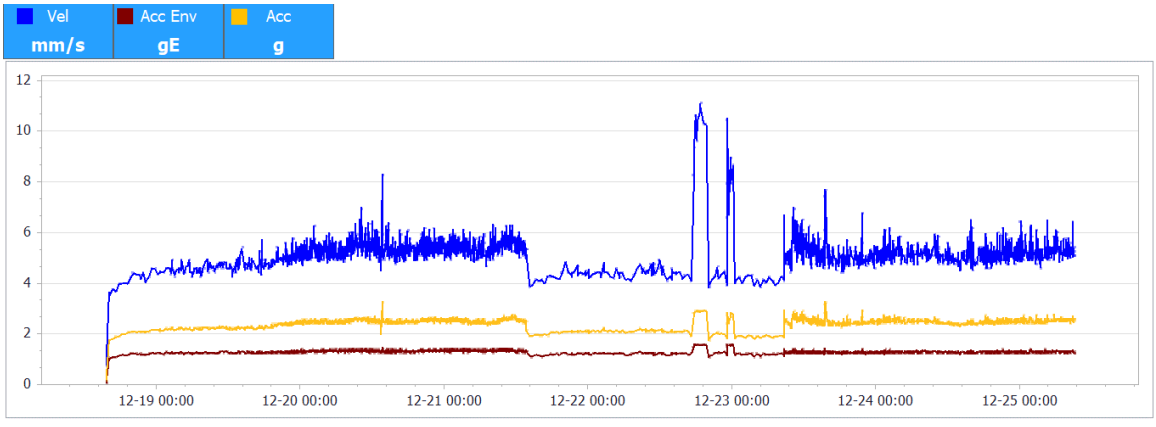
HORIZONTAL



VERTICAL



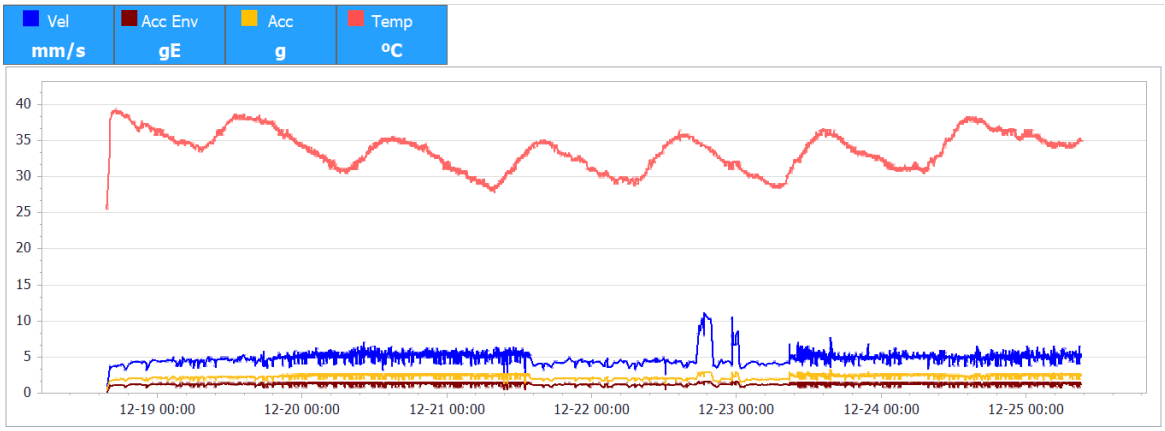
AXIAL



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TREND REPORT

TEMPERATURE (VIBRATION SENSOR)

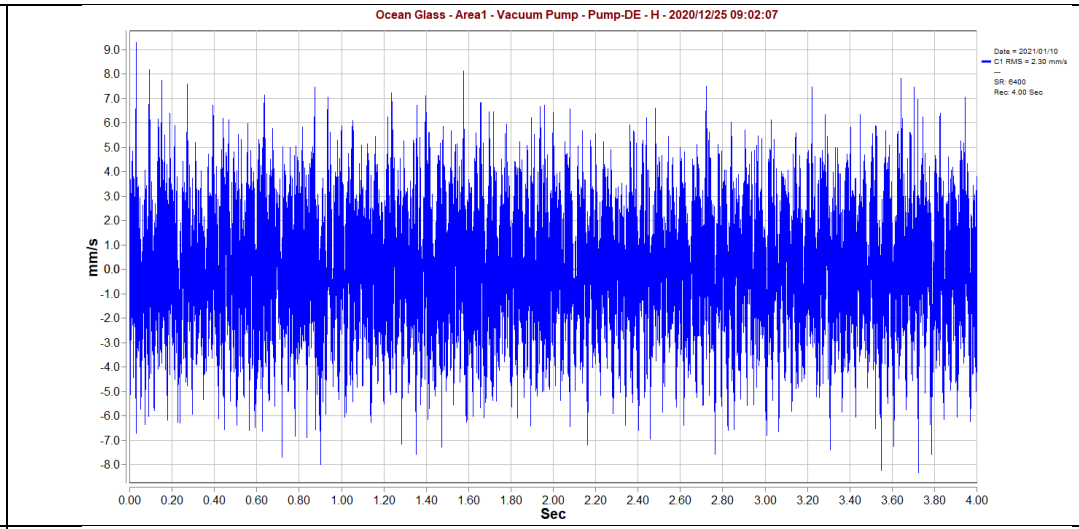


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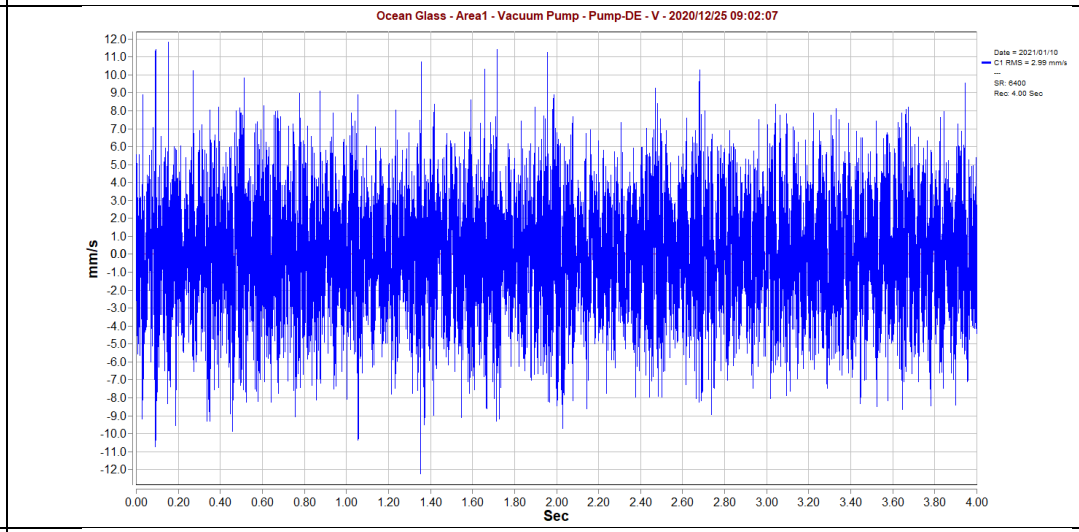
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TIME WAVE FORM REPORT

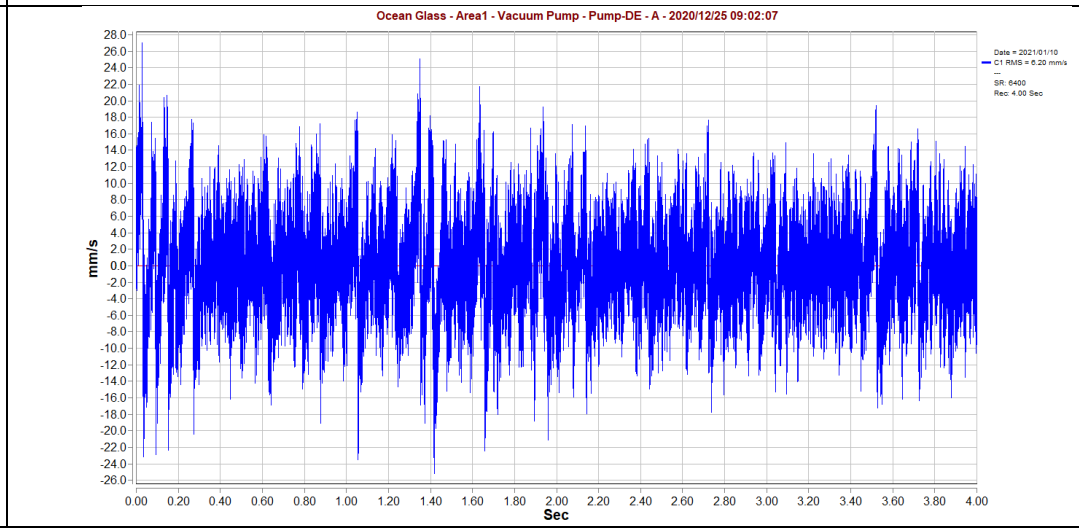
HORIZONTAL



VERTICAL



AXIAL

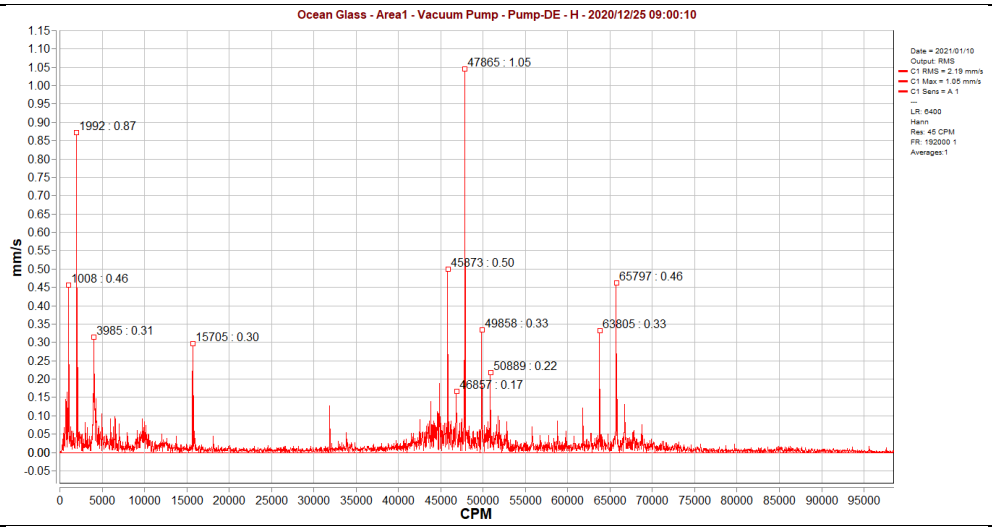


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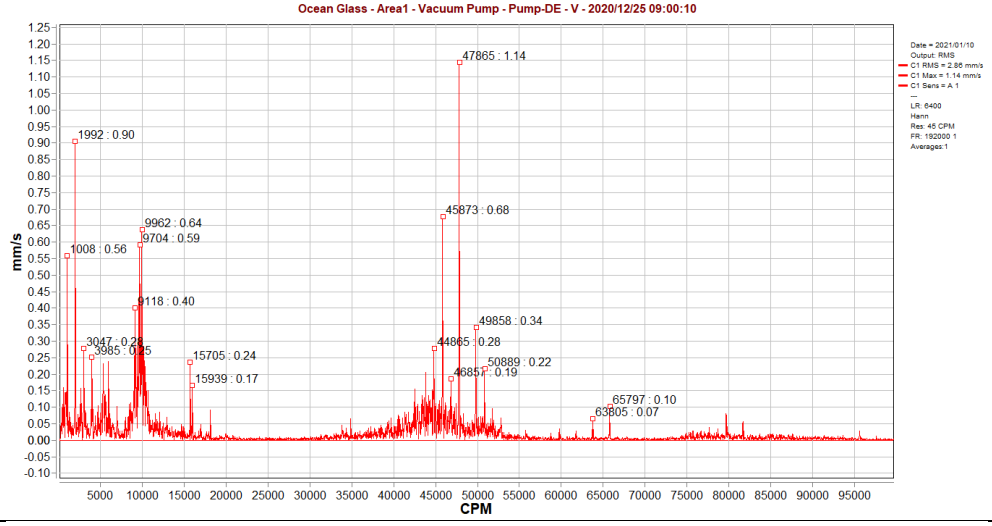
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SPECTRUM REPORT

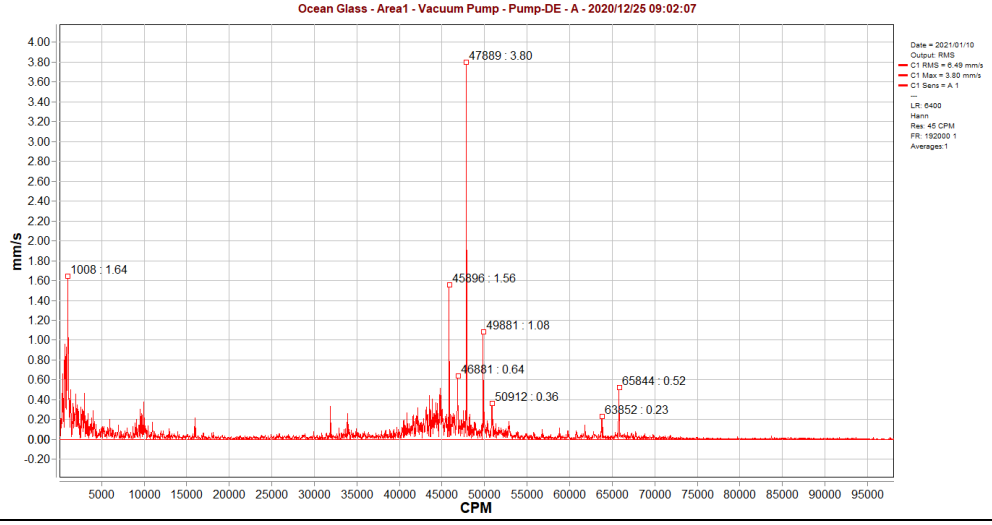
HORIZONTAL



VERTICAL



AXIAL



ANALYSIS AND RECOMMEDED

The dominant peak was found at 48 times of speed which can be the numbers of the pump vane or motor rotor bar. The vibration has to be confirm its source whether it was from the motor or pump by vibration data collection or correlate with motor analysis technology. There also was the parallel misalignment.

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Report generated from DigivibeMX Phantom software

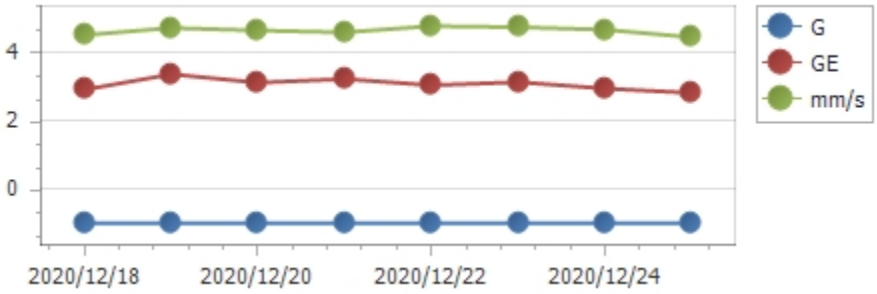
Title

Machines 2
Ocean Glass Area1 Main Fan MDP3 2
Ocean Glass Area1 Vacuum Pump 10

Machines

Ocean Glass - Area1 - Main Fan MDP3

Notes: [Msg]



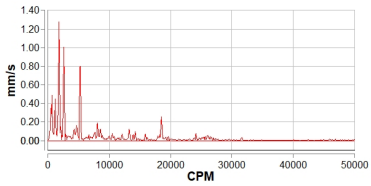


Extra parammeters	
Units	**Value**

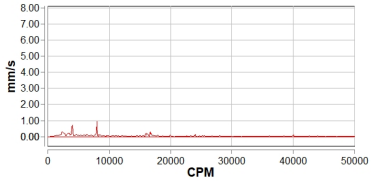
Date:	2020-12-18

M-DE	

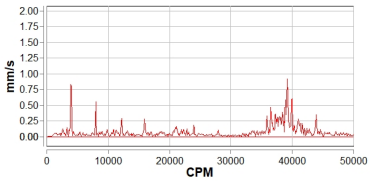
Horizontal



Vertical



Axial



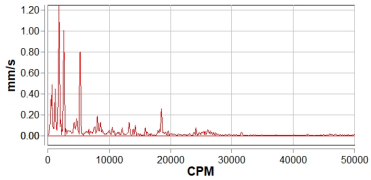
Units	Horizontal	Vertical	Axial
G	2.18	1.24	0.27
GE	1.15	0.26	0.14
mm/s	2.49	10.78	3.15

Extra parammeters	
Units	**Value**
Celsius	42.00

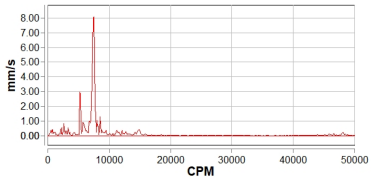
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M-DE	

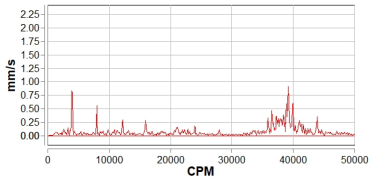
Horizontal



Vertical



Axial



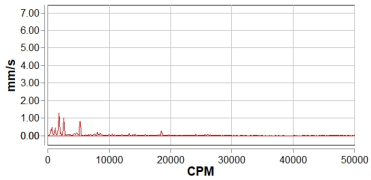
Units	Horizontal	Vertical	Axial
G	2.55	1.30	0.29
GE	1.42	0.29	0.16
mm/s	2.48	12.27	3.45

Extra parammeters	
Units	**Value**
Celsius	41.50

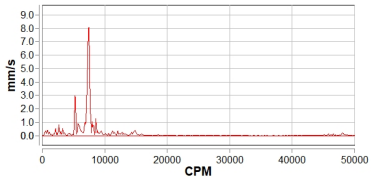
Date:	2020-12-20

M-DE	

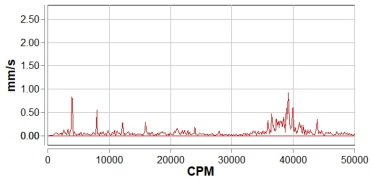
Horizontal



Vertical



Axial



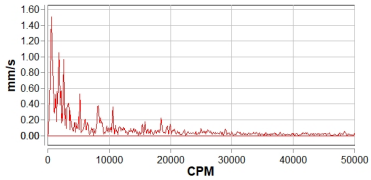
Units	Horizontal	Vertical	Axial
G	3.03	2.06	0.67
GE	1.28	0.91	0.35
mm/s	8.69	11.75	3.94

Extra parammeters	
Units	**Value**
Celsius	38.50

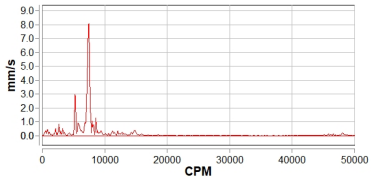
Date:	2020-12-21

M-DE	

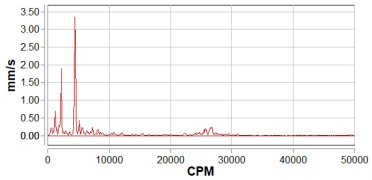
Horizontal



Vertical



Axial



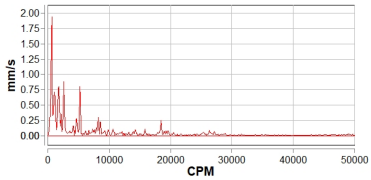
Units	Horizontal	Vertical	Axial
G	2.65	1.47	0.36
GE	1.34	0.51	0.19
mm/s	3.44	11.36	4.20

Extra parammeters	
Units	**Value**
Celsius	37.75

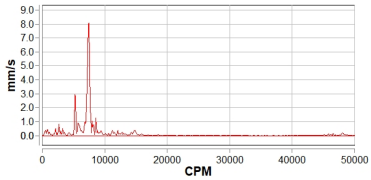
Date:	2020-12-22

M-DE	

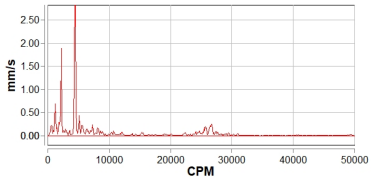
Horizontal



Vertical



Axial



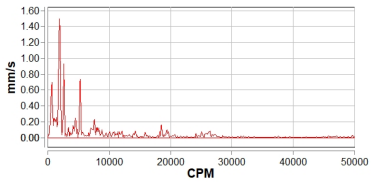
Units	Horizontal	Vertical	Axial
G	2.43	1.43	0.34
GE	1.23	0.46	0.17
mm/s	3.31	12.65	3.93

Extra parammeters	
Units	**Value**
Celsius	38.75

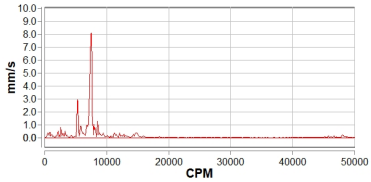
Date:	2020-12-23

M-DE	

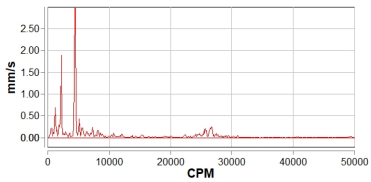
Horizontal



Vertical



Axial



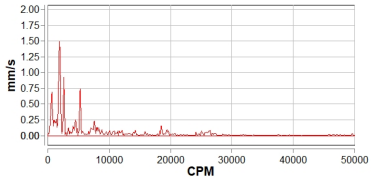
Units	Horizontal	Vertical	Axial
G	2.46	1.42	0.29
GE	1.28	0.33	0.15
mm/s	2.91	12.41	3.56

Extra parammeters	
Units	**Value**
Celsius	39.75

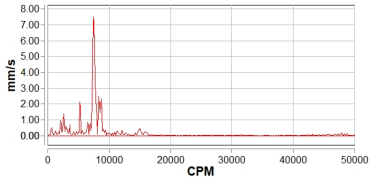
Date:	2020-12-24

M-DE	

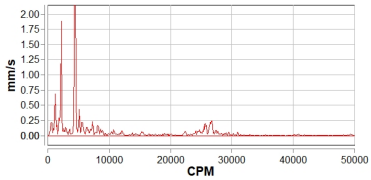
Horizontal



Vertical



Axial



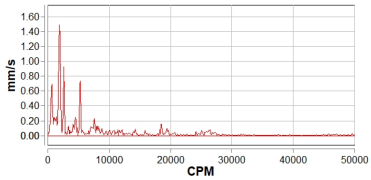
Units	**Horizontal**	**Vertical**	**Axial**
G	2.18	1.30	0.29
GE	1.17	0.33	0.15
mm/s	2.98	11.90	3.30

Extra parammeters	
Units	**Value**
Celsius	41.25

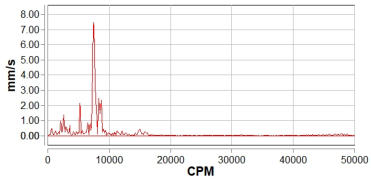
Date:	2020-12-25

M-DE	

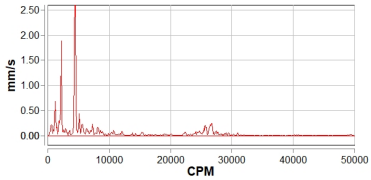
Horizontal



Vertical



Axial

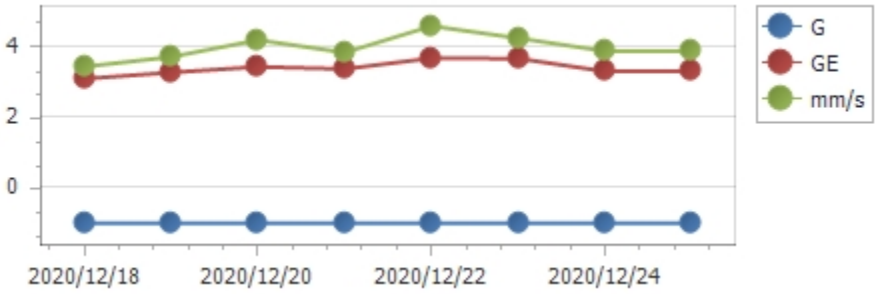


Units	Horizontal	Vertical	Axial
G	2.14	1.25	0.28
GE	1.10	0.30	0.14
mm/s	2.70	10.33	3.82

Extra parammeters	
Units	**Value**
Celsius	40.25

Ocean Glass - Area1 - Vacuum Pump

Notes: [Msg]



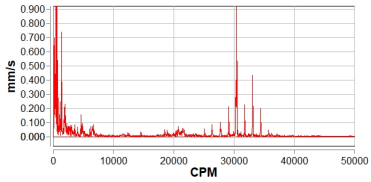


Extra parammeters	
Units	**Value**
Celsius	49.59

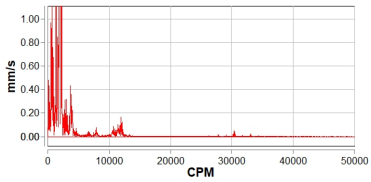
Date:	2020-12-18

Pump-DE	

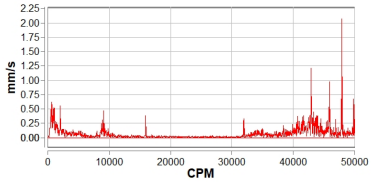
Horizontal



Vertical



Axial



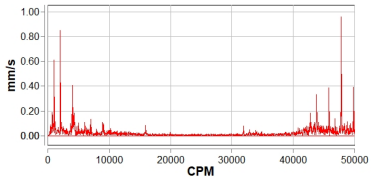
Units	Horizontal	Vertical	Axial
G	0.96	1.34	2.17
GE	0.51	0.53	1.25
mm/s	1.97	2.72	4.59

Extra parammeters	
Units	**Value**
Celsius	39.25

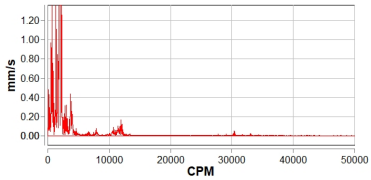
Date:	2020-12-19

Pump-DE	

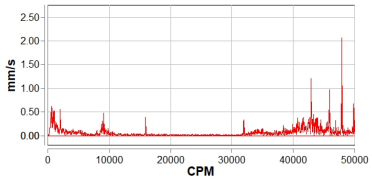
Horizontal



Vertical



Axial



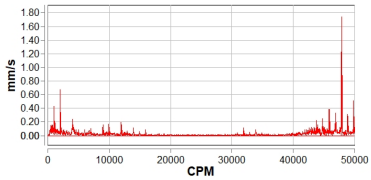
Units	Horizontal	Vertical	Axial
G	1.03	1.44	2.51
GE	0.57	0.59	1.35
mm/s	2.19	3.07	5.78

Extra parammeters	
Units	**Value**
Celsius	38.50

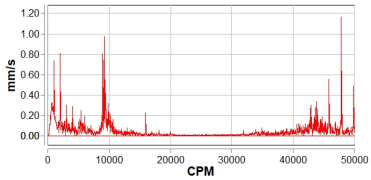
Date:	2020-12-20

Pump-DE	

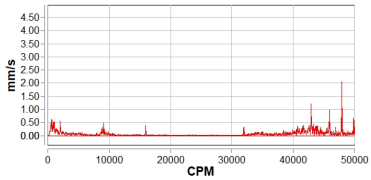
Horizontal



Vertical



Axial



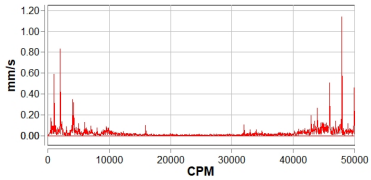
Units	Horizontal	Vertical	Axial
G	1.38	1.75	3.25
GE	0.74	0.76	1.45
mm/s	2.63	3.31	8.28

Extra parammeters	
Units	**Value**
Celsius	35.50

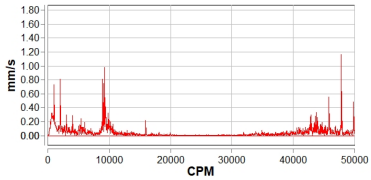
Date:	2020-12-21

Pump-DE	

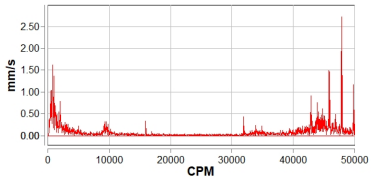
Horizontal



Vertical



Axial



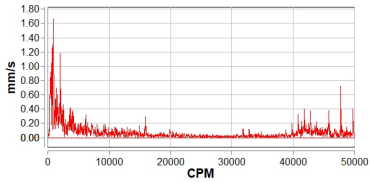
Units	Horizontal	Vertical	Axial
G	1.12	1.52	2.74
GE	0.61	0.64	1.41
mm/s	2.29	3.31	6.31

Extra parammeters	
Units	**Value**
Celsius	35.00

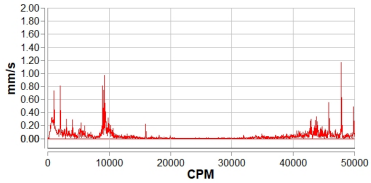
Date:	2020-12-22

Pump-DE	

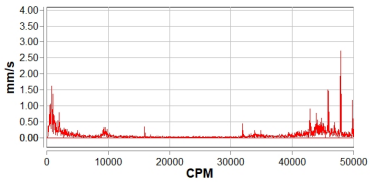
Horizontal



Vertical



Axial



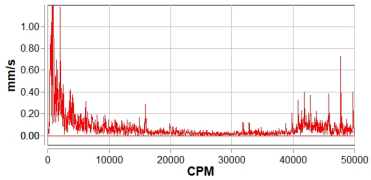
Units	Horizontal	Vertical	Axial
G	1.54	1.89	2.93
GE	0.88	0.94	1.59
mm/s	4.98	7.07	11.08

Extra parammeters	
Units	**Value**
Celsius	36.25

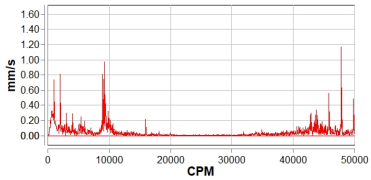
Date:	2020-12-23

Pump-DE	

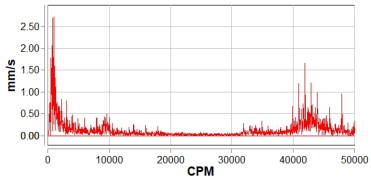
Horizontal



Vertical



Axial



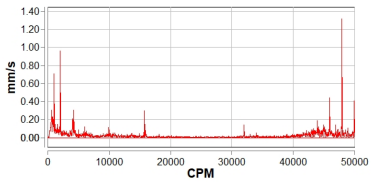
Units	Horizontal	Vertical	Axial
G	1.36	1.76	3.27
GE	0.80	0.89	1.59
mm/s	2.99	5.02	8.66

Extra parammeters	
Units	**Value**
Celsius	36.50

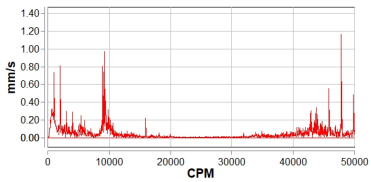
Date:	2020-12-24

Pump-DE	

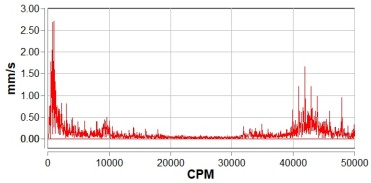
Horizontal



Vertical



Axial



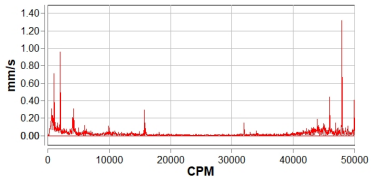
Units	Horizontal	Vertical	Axial
G	1.17	1.52	2.72
GE	0.64	0.64	1.37
mm/s	2.50	3.21	6.48

Extra parammeters	
Units	**Value**
Celsius	38.25

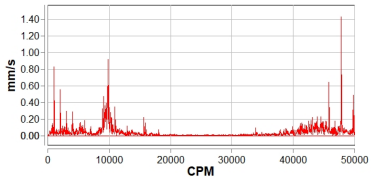
Date:	2020-12-25

Pump-DE	

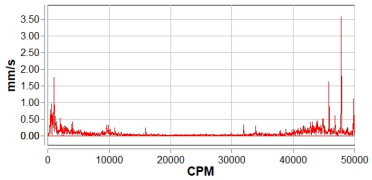
Horizontal



Vertical



Axial



Units	Horizontal	Vertical	Axial
G	1.19	1.54	2.77
GE	0.64	0.63	1.37
mm/s	2.46	3.15	6.48

Extra parammeters	
Units	**Value**
Celsius	36.50