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Website: www.advancesiam.com Tax ID: 0105539065785

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ANAB ACCREDITED ISO/IEC 17021 MANAGEMENT SYSTEMS CERTIFICATION BODY

DEMO Wireless Vibration Sensor Report For Rotating Machines

BGC

Ayutthaya Glass Industry Co. Ltd

Ban Hip, Ayutthaya

Report by: Ms. Sirianunta Ruttanapraromya

9th April 2021

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General Data

Job Order No	: DEMO Wireless Vibration	Measured Date	: April 9, 2021
Plant	: Ayutthaya Glass Industry Co. Ltd	Unit	: IS Cooling Fan Line 31 High
Equipment	: Fan	Speed	: 2995 rpm.
Motor	: 160 kW	Speed	: 2995 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
B-DE	Blower Drive End bearing
B-NDE	Blower Non-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

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

Severity Code		Explanation
Good	< 2.3 mm/s$_{rms}$	For new machine condition
Admissible	2.3 – 4.5 mm/s$_{rms}$	For unlimited long-term operation allowable
Still Admissible	4.5 – 7.1 mm/s$_{rms}$	For short-term operation allowable
Inadmissible	> 7.1 mm/s$_{rms}$	Vibration causes damage

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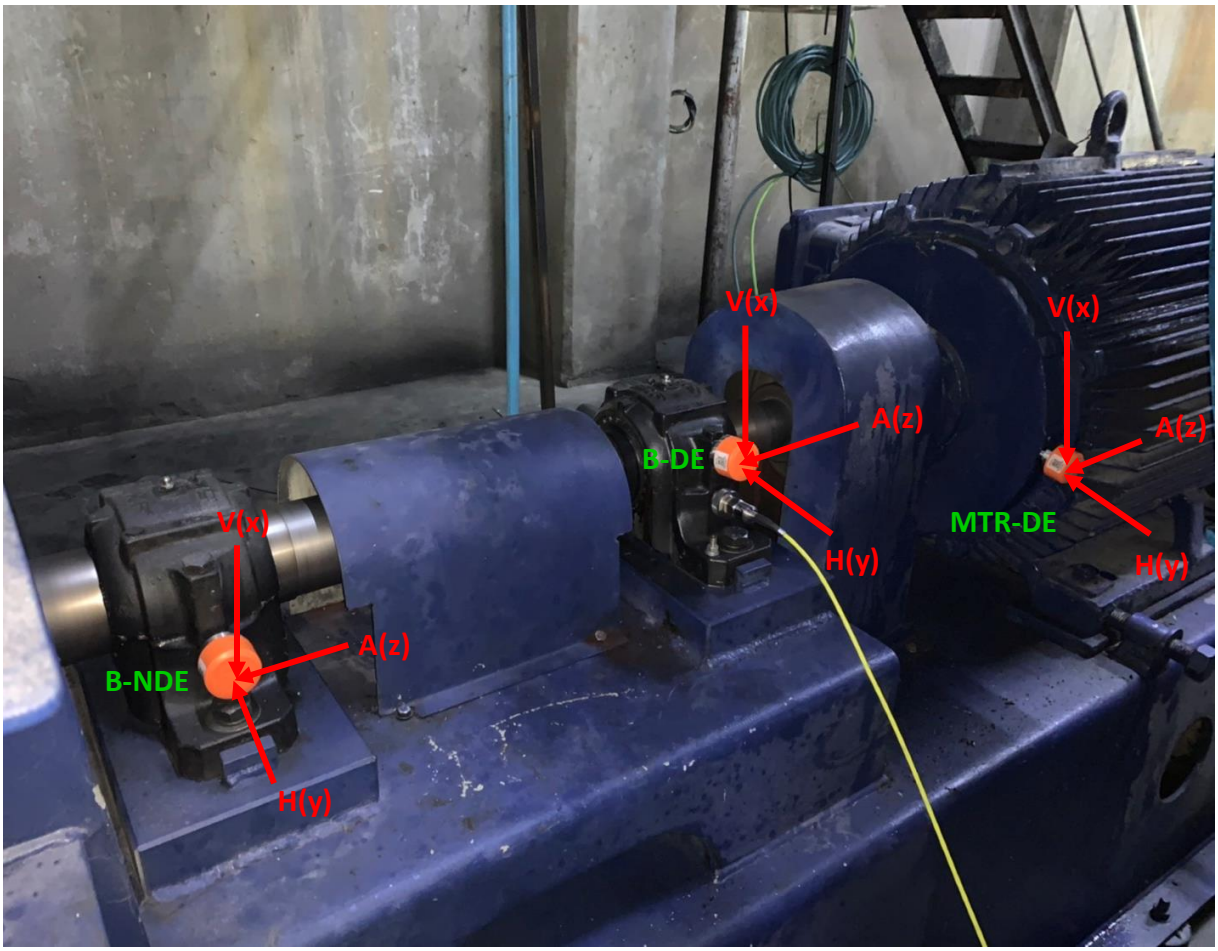
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LAST MAGNITUDE MEASUREMENT REPORT

IS Cooling Fan Line 31 High

DATE : 9 April 2021

COLLECT DATA : Every 1 hours (24 times/day)



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Measurement Report

Location	Date & Time	H	V	A	Unit	Severity
MTR-DE	2021-04-09 14:39:05	7.8835	19.8375	11.4552	mm/s	Danger
	2021-04-09 14:50:57	7.5101	19.1176	11.7304	mm/s	Danger
	2021-04-09 15:00:28	7.5342	20.5017	11.5770	mm/s	Danger
	2021-04-09 15:10:29	7.5303	20.2753	11.6154	mm/s	Danger
	2021-04-09 15:20:28	7.5296	20.8056	11.5782	mm/s	Danger
	2021-04-09 15:30:27	7.6385	19.1721	11.5759	mm/s	Danger
	2021-04-09 15:40:26	7.9255	20.5994	11.4797	mm/s	Danger
	2021-04-09 15:50:28	7.3339	20.0598	11.9409	mm/s	Danger
	2021-04-09 16:00:34	7.0470	19.8038	12.8259	mm/s	Danger
	2021-04-09 16:25:31	7.1905	18.6928	13.2251	mm/s	Danger
	2021-04-09 16:30:26	7.4918	20.1705	12.0422	mm/s	Danger
	2021-04-09 16:40:27	7.7912	22.4575	11.6793	mm/s	Danger
	2021-04-09 16:50:35	7.5760	22.3765	12.5099	mm/s	Danger
	2021-04-09 17:00:35	7.6896	21.1312	11.1983	mm/s	Danger
	2021-04-09 17:10:28	7.5119	21.2758	11.8158	mm/s	Danger
	2021-04-09 17:20:28	7.8229	22.3735	11.5358	mm/s	Danger
	2021-04-09 17:30:26	7.3995	21.3351	12.1890	mm/s	Danger
	2021-04-09 17:40:26	7.5344	21.3889	12.3956	mm/s	Danger
	2021-04-09 17:56:57	7.9001	21.3807	11.6274	mm/s	Danger
	2021-04-09 18:27:26	8.1355	23.8725	12.5561	mm/s	Danger
	2021-04-09 18:40:58	7.8682	22.5772	12.6395	mm/s	Danger
	2021-04-09 18:57:56	8.1469	21.6093	11.2863	mm/s	Danger

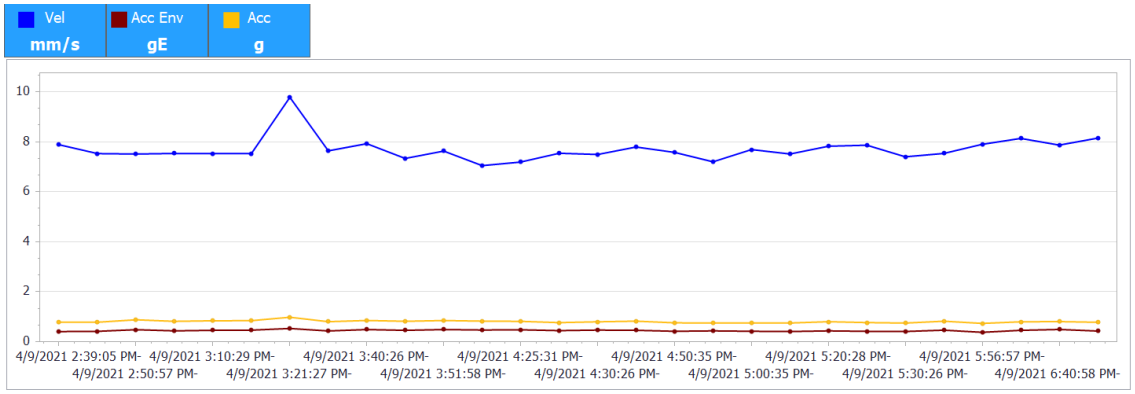
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Location	Date & Time	Internal Temperature	Unit
MTR-DE	2021-04-09 14:39:04	42.75	°C
	2021-04-09 14:50:31	42.25	°C
	2021-04-09 15:00:29	42.25	°C
	2021-04-09 15:10:29	42.5	°C
	2021-04-09 15:20:29	42.5	°C
	2021-04-09 15:30:37	42.5	°C
	2021-04-09 15:40:59	42.5	°C
	2021-04-09 15:50:29	42.5	°C
	2021-04-09 16:00:35	41.75	°C
	2021-04-09 16:10:59	38.75	°C
	2021-04-09 16:20:37	38.75	°C
	2021-04-09 16:30:59	38.25	°C
	2021-04-09 16:40:29	37	°C
	2021-04-09 16:50:35	36.5	°C
	2021-04-09 17:00:34	36.5	°C
	2021-04-09 17:10:29	36.75	°C
	2021-04-09 17:20:29	37.25	°C
	2021-04-09 17:30:39	37	°C
	2021-04-09 17:40:40	37.25	°C
	2021-04-09 17:50:58	37.25	°C
	2021-04-09 18:00:29	37.5	°C
	2021-04-09 18:11:28	37.5	°C
	2021-04-09 18:20:29	37	°C
	2021-04-09 18:30:58	37.25	°C
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	2021-04-09 19:01:28	37	°C

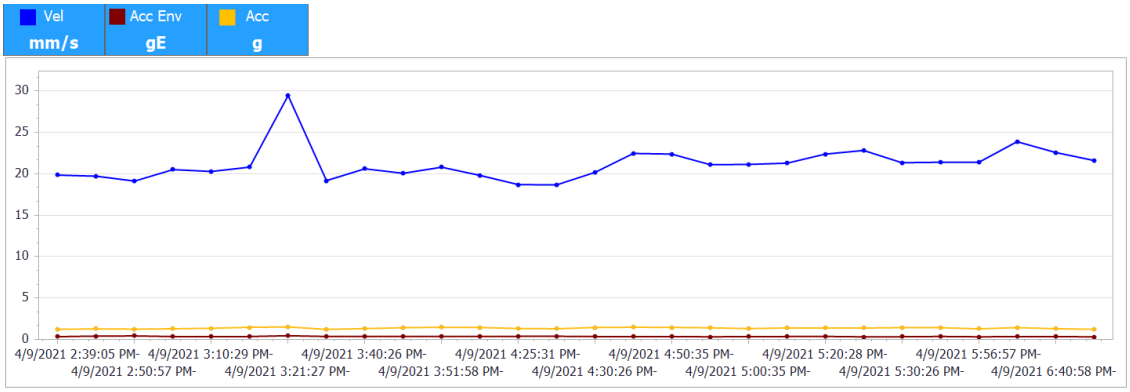
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TREND REPORT

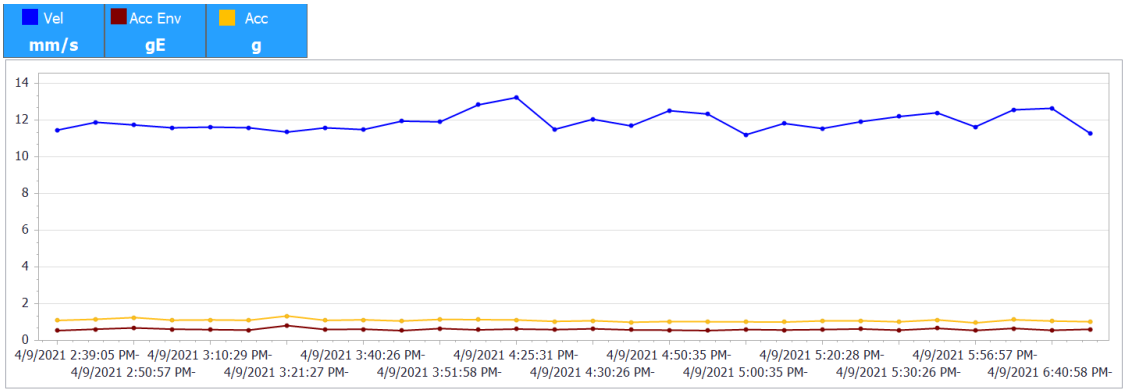
HORIZONTAL



VERTICAL



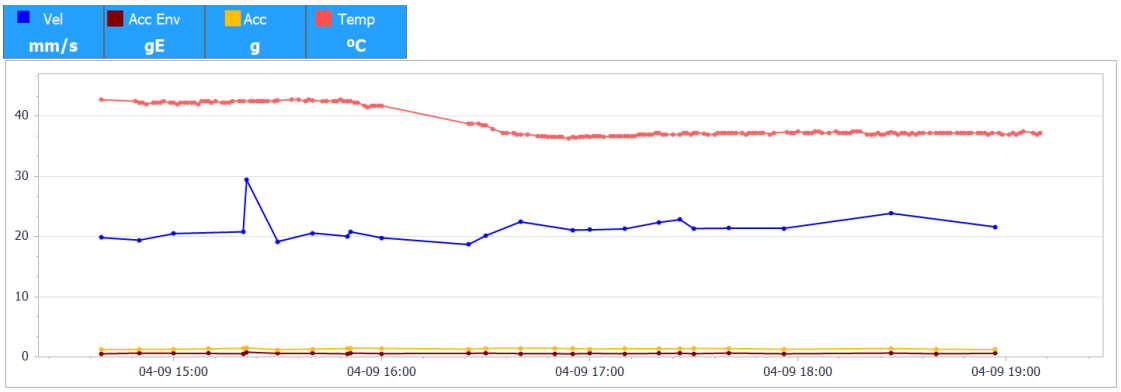
AXIAL



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TREND REPORT

TEMPERATURE (VIBRETION SENSOR)

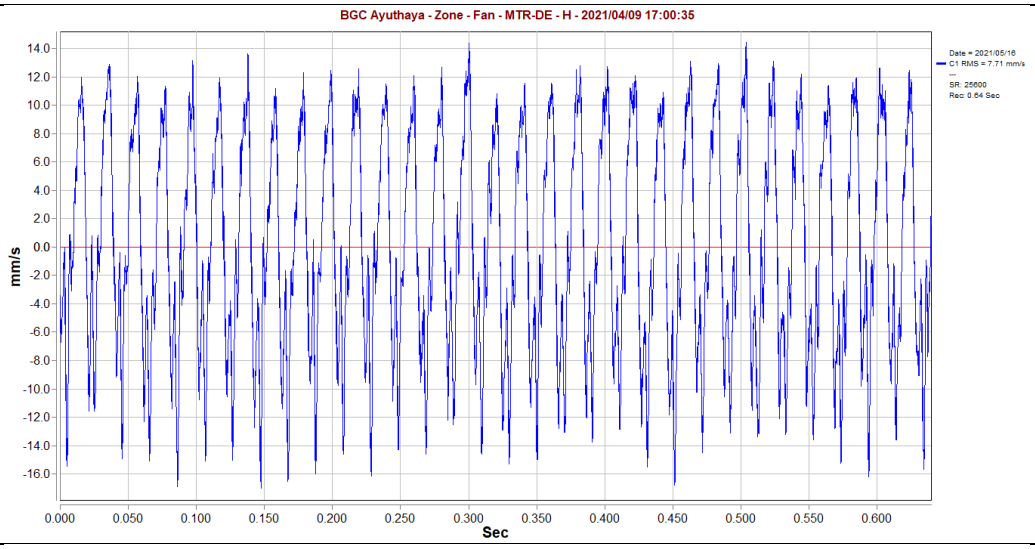


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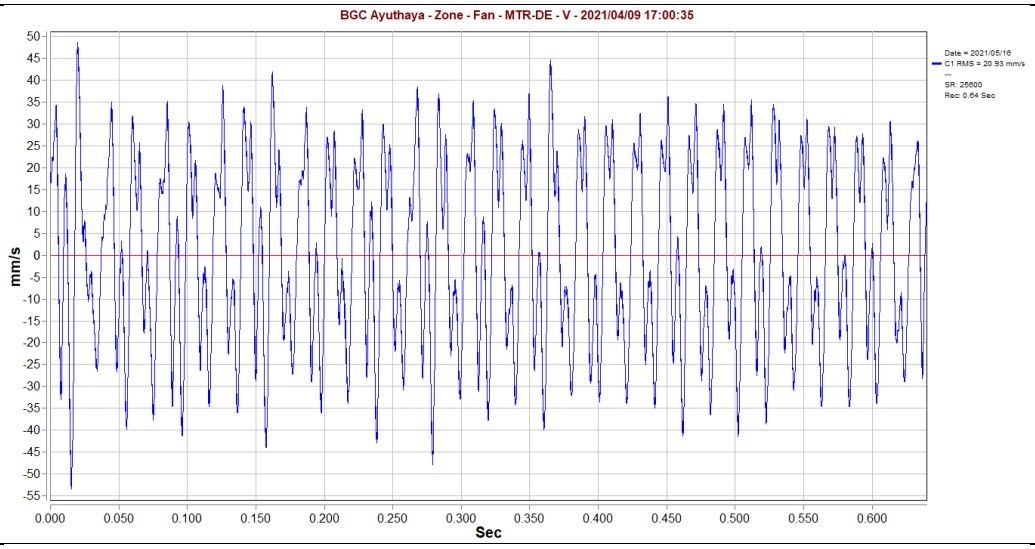
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TIME WAVE FORM REPORT

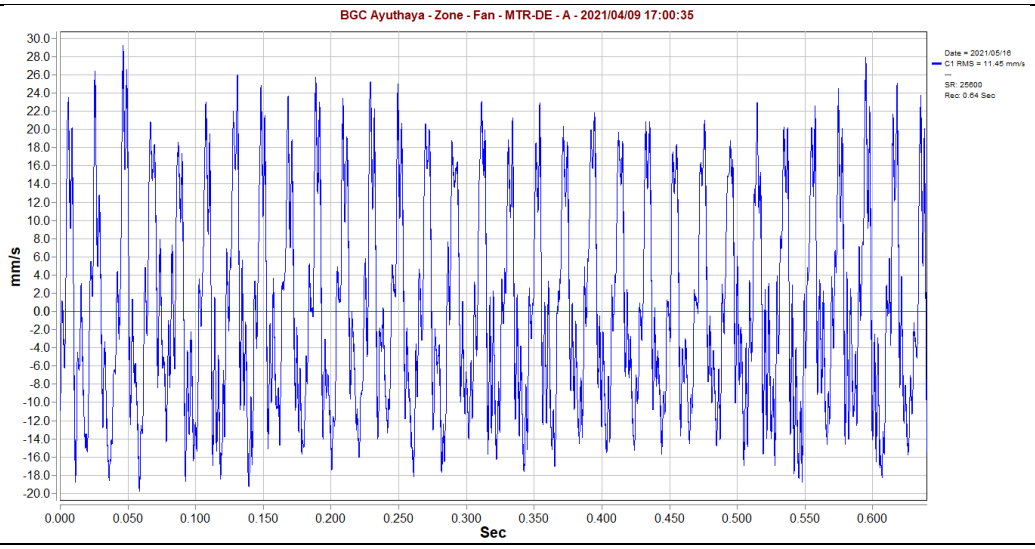
HORIZONTAL



VERTICAL



AXIAL

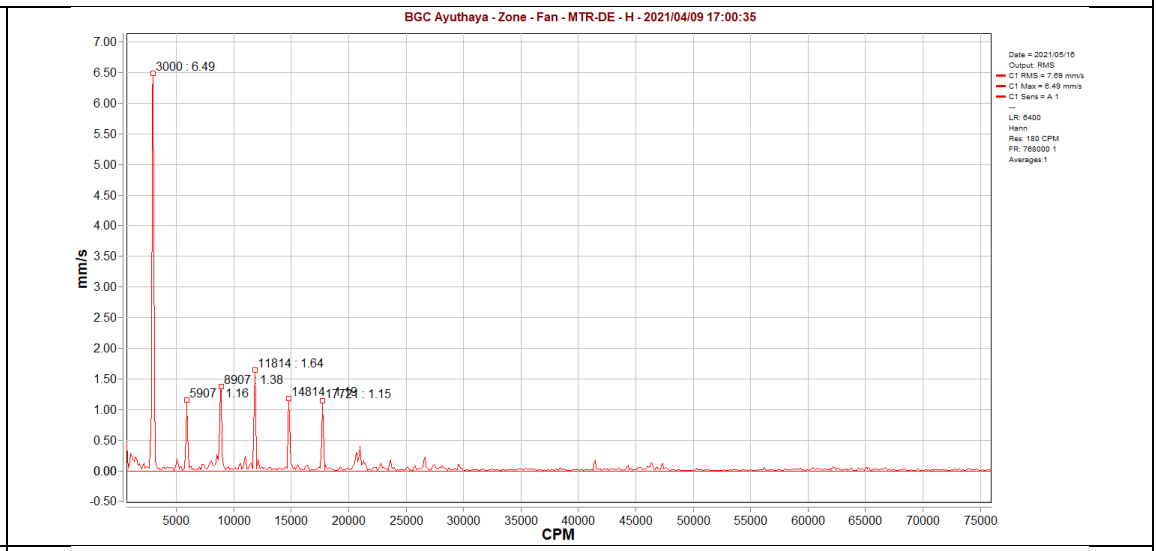


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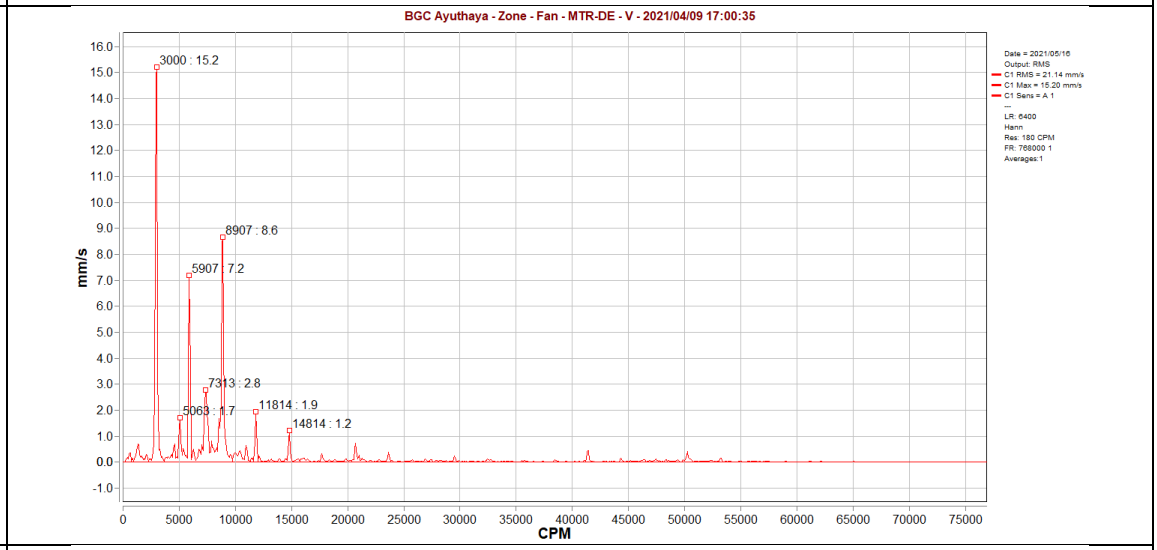
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SPECTRUM REPORT

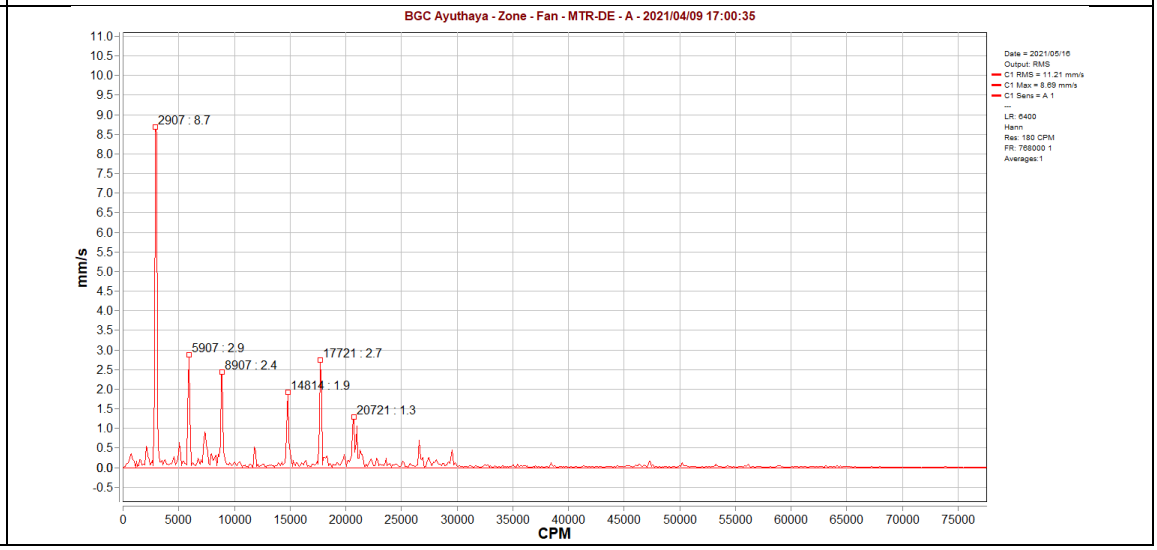
HORIZONTAL



VERTICAL



AXIAL



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Measurement Report

Location	Date & Time	H	V	A	Unit	Severity
B-DE	2021-04-09 13:10:50	15.027	24.712	11.854	mm/s	Danger
	2021-04-09 13:20:58	14.326	23.268	31.338	mm/s	Danger
	2021-04-09 13:23:51	13.318	21.944	32.980	mm/s	Danger
	2021-04-09 13:25:34	10.606	22.852	21.883	mm/s	Danger
	2021-04-09 13:36:11	8.801	15.622	21.863	mm/s	Danger
	2021-04-09 13:45:50	12.637	16.310	15.098	mm/s	Danger
	2021-04-09 14:25:11	10.562	17.868	17.097	mm/s	Danger
	2021-04-09 16:54:04	11.4520	17.6680	18.2991	mm/s	Danger
	2021-04-09 16:56:31	10.2362	17.8651	16.8075	mm/s	Danger
	2021-04-09 17:06:32	10.7057	16.0894	19.9530	mm/s	Danger
	2021-04-09 17:16:30	12.3692	14.5693	18.7322	mm/s	Danger
	2021-04-09 17:26:32	9.8280	13.9616	19.9985	mm/s	Danger
	2021-04-09 17:36:27	13.2508	16.8499	19.3246	mm/s	Danger
	2021-04-09 17:57:58	16.5710	16.5746	17.6814	mm/s	Danger
	2021-04-09 18:28:27	13.0768	13.9183	19.4206	mm/s	Danger
	2021-04-09 18:40:59	11.6731	17.3657	18.3311	mm/s	Danger

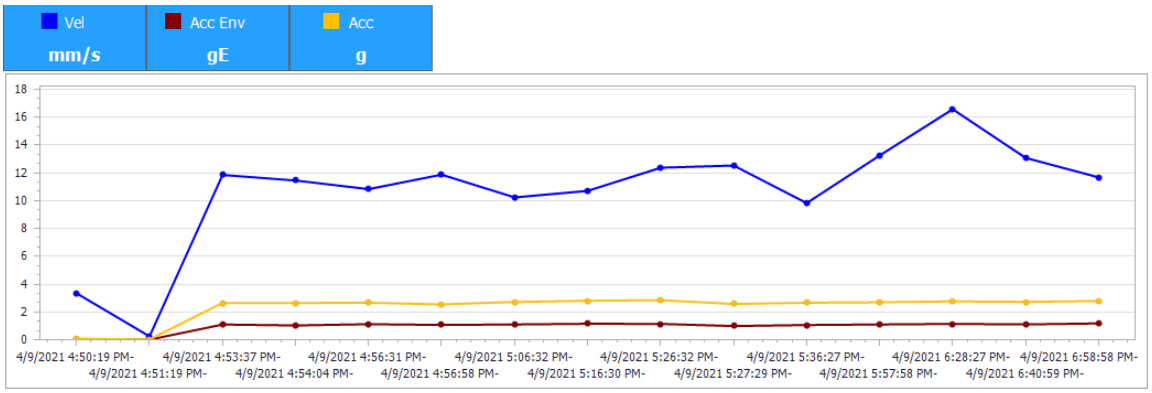
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Location	Date & Time	Internal Temperature	Unit
B-DE	2021-04-09 13:03:00	42	°C
	2021-04-09 13:21:07	42	°C
	2021-04-09 13:30:58	42.75	°C
	2021-04-09 13:40:57	43	°C
	2021-04-09 13:51:10	43	°C
	2021-04-09 14:25:13	42.25	°C
	2021-04-09 16:53:37	30.25	°C
	2021-04-09 17:06:49	38.5	°C
	2021-04-09 17:16:48	41.75	°C
	2021-04-09 17:26:31	42.75	°C
	2021-04-09 17:36:00	43.25	°C
	2021-04-09 17:46:00	43.5	°C
	2021-04-09 17:55:00	43.75	°C
	2021-04-09 18:06:30	43.75	°C
	2021-04-09 18:16:30	43.75	°C
	2021-04-09 18:26:30	43.25	°C
	2021-04-09 18:36:00	43.25	°C
	2021-04-09 18:56:00	43.25	°C

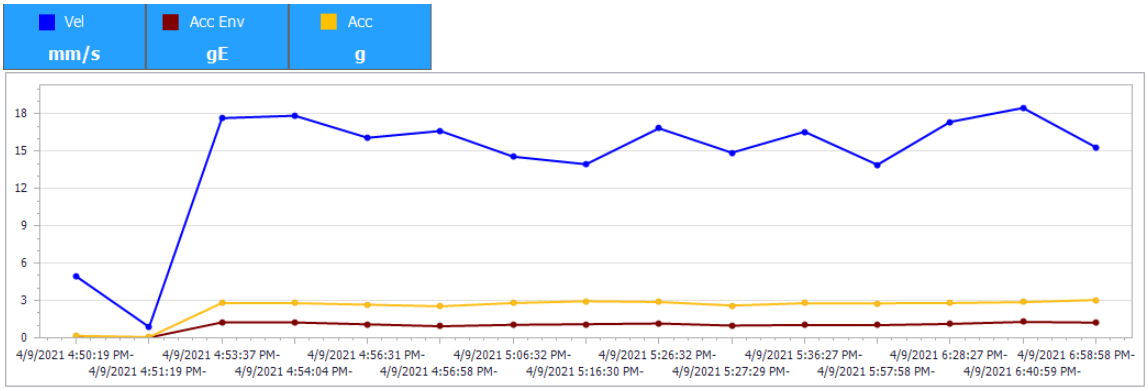
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TREND REPORT

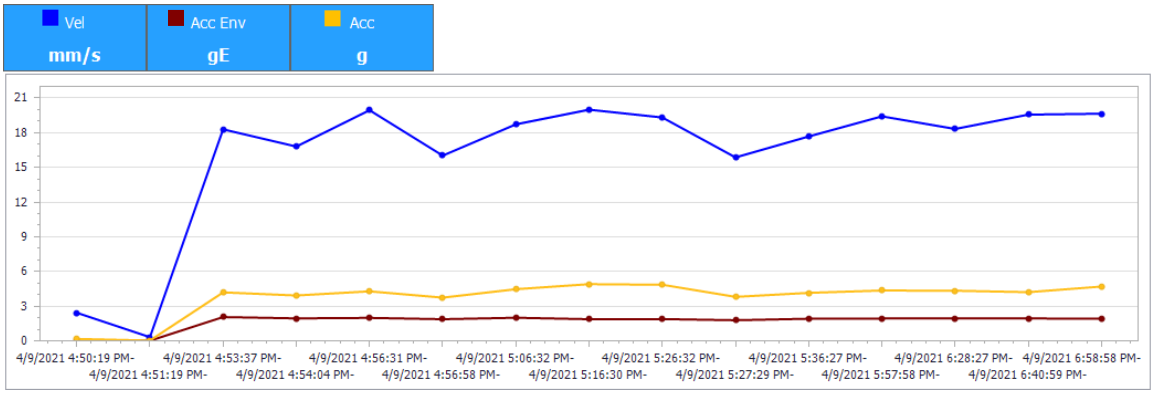
HORIZONTAL



VERTICAL



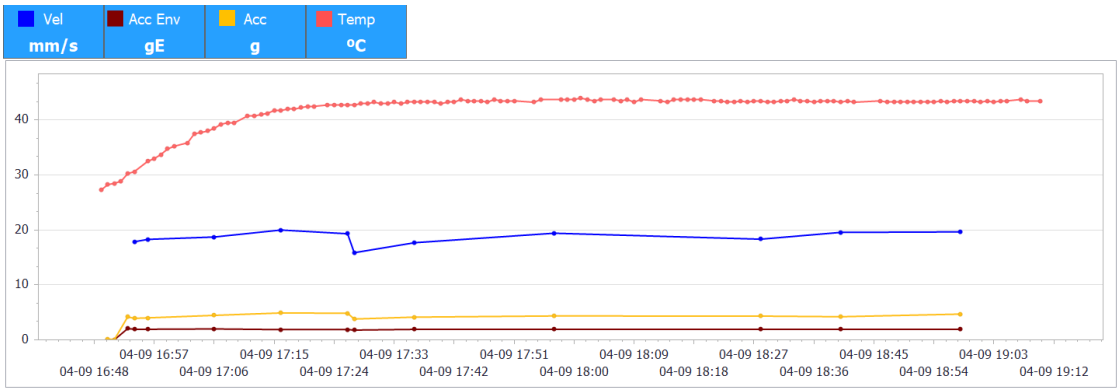
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TREND REPORT

TEMPERATURE (VIBRETION SENSOR)

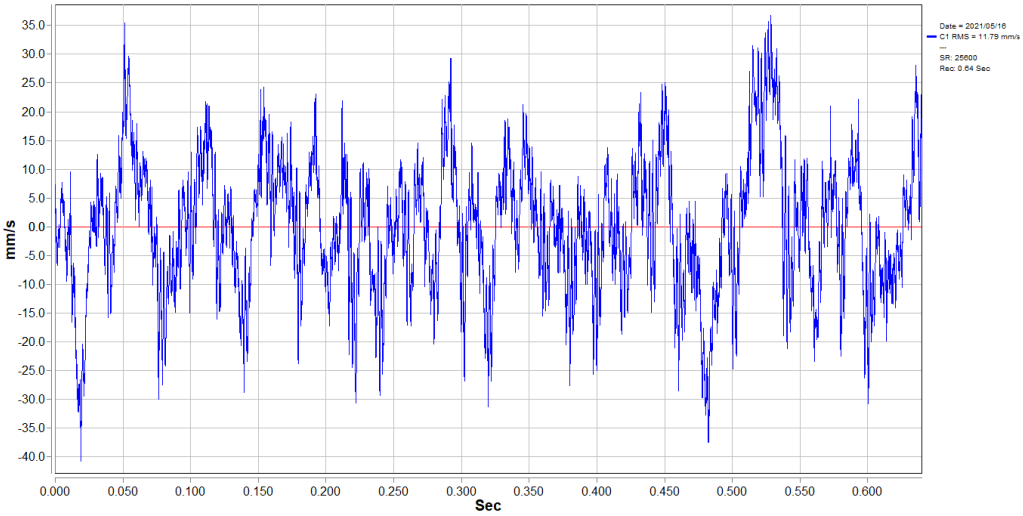


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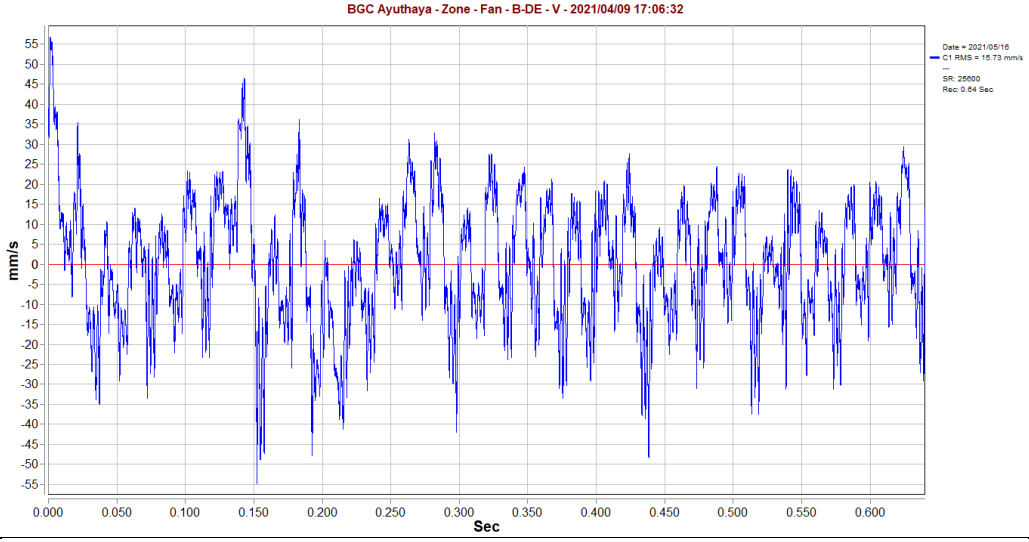
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TIME WAVE FORM REPORT

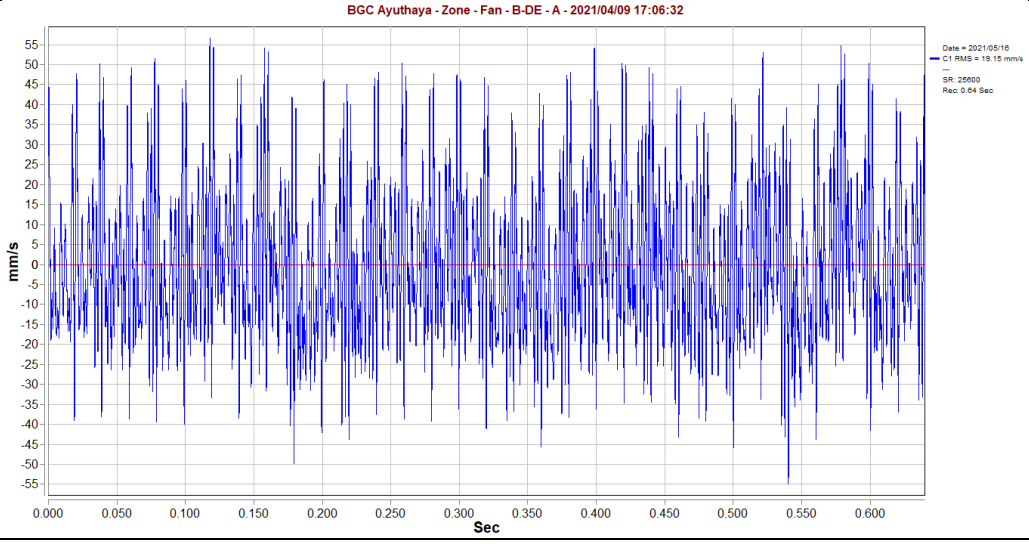
HORIZONTAL



VERTICAL



AXIAL



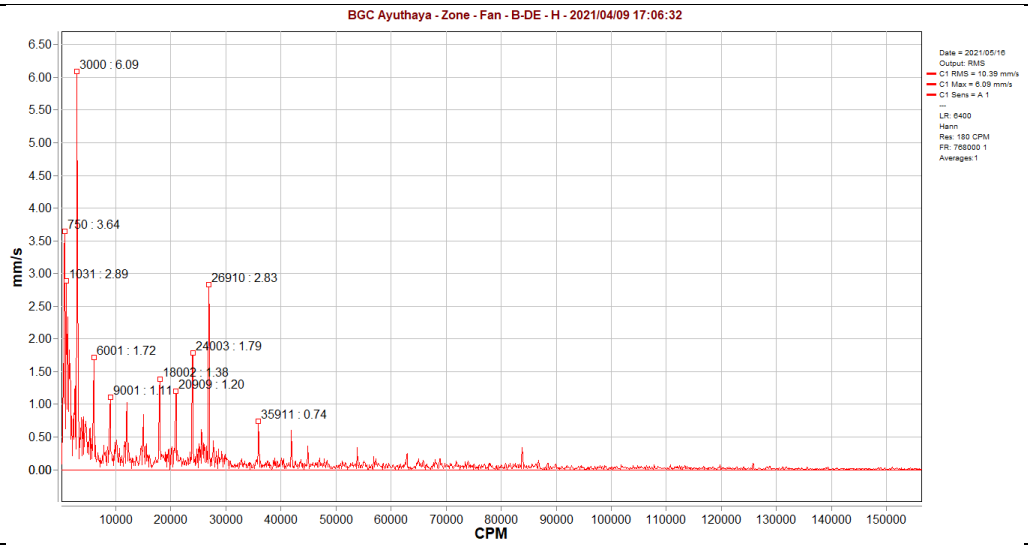
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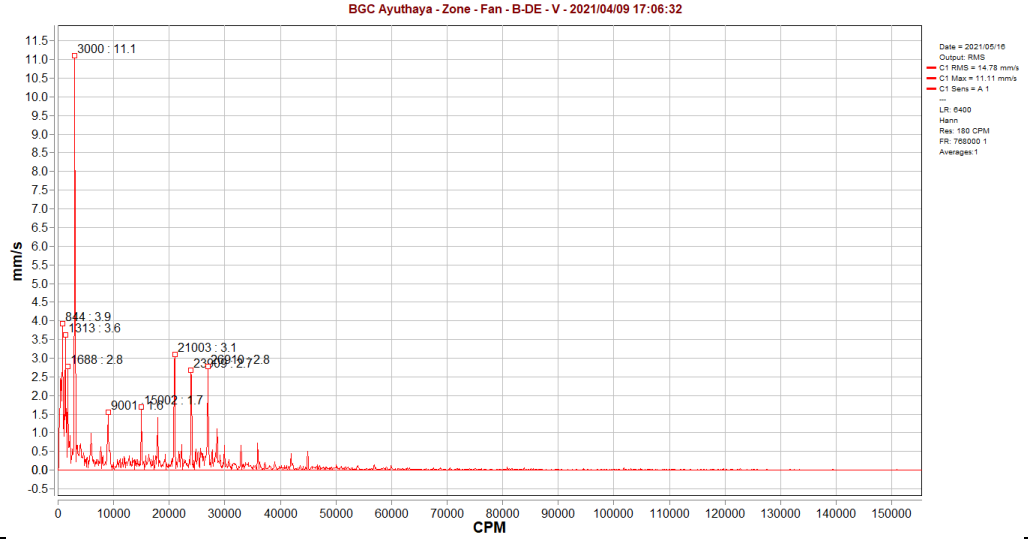
SPECTRUM REPORT

Run speed 2600 rpm

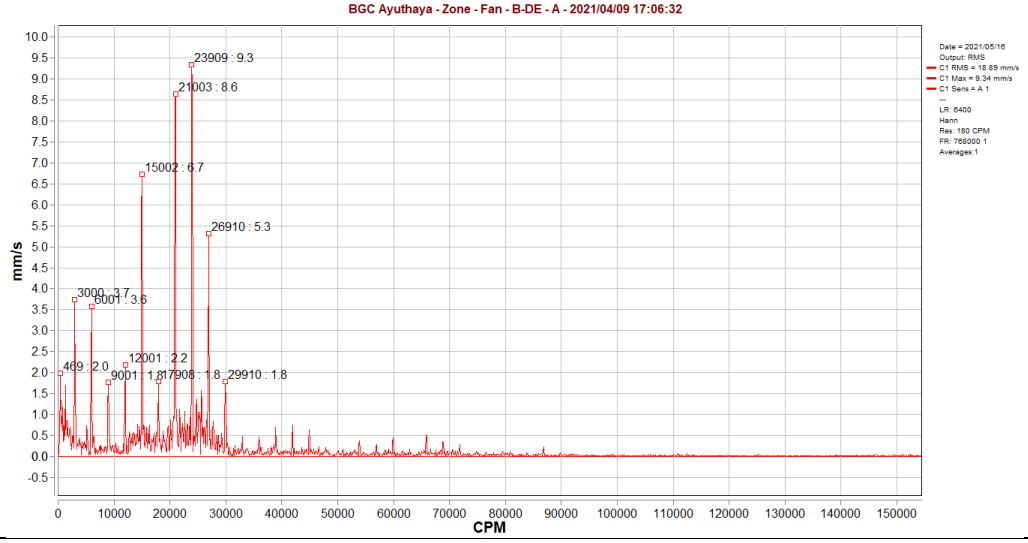
HORIZONTAL



VERTICAL



AXIAL



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Measurement Report

Location	Date & Time	H	V	A	Unit	Severity
B-NDE	2021-04-09 10:36:16	9.8808	15.3366	30.1499	mm/s	Danger
	2021-04-09 10:36:19	10.9921	15.9768	31.9419	mm/s	Danger
	2021-04-09 11:21:35	12.1327	17.5496	37.6281	mm/s	Danger
	2021-04-09 11:22:18	10.7305	17.4997	36.9264	mm/s	Danger
	2021-04-09 11:50:15	9.7483	16.2667	34.3371	mm/s	Danger
	2021-04-09 11:50:20	10.3411	16.9818	34.1768	mm/s	Danger
	2021-04-09 13:26:20	11.7308	15.8955	43.5577	mm/s	Danger
	2021-04-09 13:26:35	14.4079	25.7121	67.9505	mm/s	Danger
	2021-04-09 14:29:23	14.0374	19.7214	39.2138	mm/s	Danger
	2021-04-09 14:37:21	12.6252	16.6487	35.9844	mm/s	Danger
	2021-04-09 14:39:23	10.7952	14.3302	30.1379	mm/s	Danger
	2021-04-09 14:50:28	12.6661	15.8591	34.6488	mm/s	Danger
	2021-04-09 14:50:40	13.1115	15.6315	34.0574	mm/s	Danger
	2021-04-09 15:21:10	11.4537	14.2015	27.3861	mm/s	Danger
	2021-04-09 15:51:41	11.2269	13.9678	29.2773	mm/s	Danger
	2021-04-09 16:21:45	11.7153	13.6817	29.5467	mm/s	Danger
	2021-04-09 16:50:10	10.8253	13.2982	28.8596	mm/s	Danger
	2021-04-09 16:52:11	11.2205	14.7482	29.5957	mm/s	Danger
	2021-04-09 17:22:40	13.9984	18.0412	31.8852	mm/s	Danger
	2021-04-09 17:53:11	10.6618	14.7749	30.1631	mm/s	Danger
	2021-04-09 18:23:42	12.0644	13.4555	29.6839	mm/s	Danger
	2021-04-09 18:41:13	13.4329	16.8763	32.1142	mm/s	Danger
	2021-04-09 18:54:12	11.5689	14.3205	28.9477	mm/s	Danger

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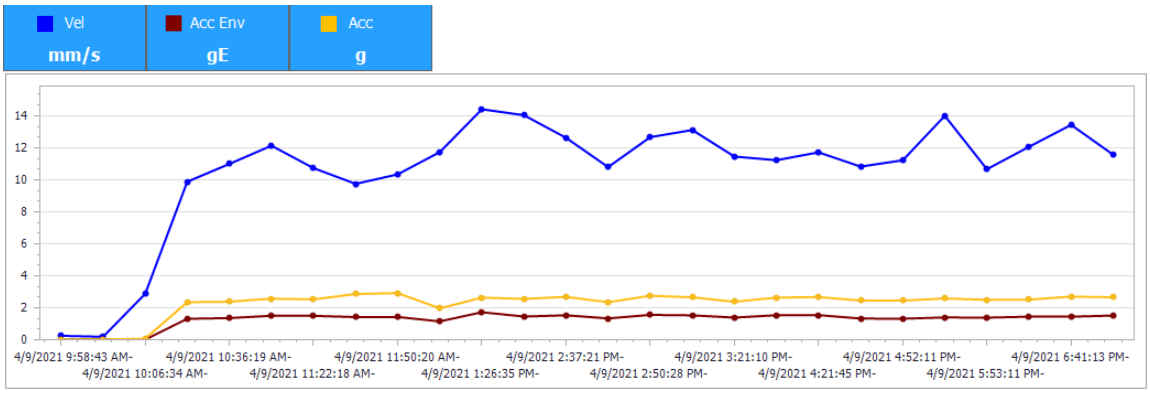
Location	Date & Time	Internal Temperature	Unit
B-NDE	2021-04-09 10:36:19	39.25	°C
	2021-04-09 10:40:27	42.25	°C
	2021-04-09 11:21:35	46.75	°C
	2021-04-09 11:30:04	46.5	°C
	2021-04-09 11:40:34	46.75	°C
	2021-04-09 11:50:04	47	°C
	2021-04-09 12:00:17	47.25	°C
	2021-04-09 12:10:47	47.5	°C
	2021-04-09 12:20:05	48	°C
	2021-04-09 12:25:38	48.25	°C
	2021-04-09 12:41:02	49.25	°C
	2021-04-09 12:48:58	47.5	°C
	2021-04-09 13:02:48	47.5	°C
	2021-04-09 13:21:20	47.5	°C
	2021-04-09 13:30:44	47.5	°C
	2021-04-09 13:39:58	48	°C
	2021-04-09 13:49:48	48.25	°C
	2021-04-09 14:30:58	48	°C
	2021-04-09 14:41:34	48	°C
	2021-04-09 14:50:28	49.25	°C
	2021-04-09 15:02:13	49.25	°C
	2021-04-09 15:11:12	49.25	°C
	2021-04-09 15:20:12	49.25	°C
	2021-04-09 15:30:42	49.5	°C
	2021-04-09 15:39:43	49.75	°C
	2021-04-09 15:52:07	49.25	°C
	2021-04-09 16:01:13	48.5	°C
	2021-04-09 16:21:44	48.5	°C
	2021-04-09 16:31:13	45.25	°C
	2021-04-09 16:40:13	44.25	°C
	2021-04-09 16:49:13	43.75	°C
	2021-04-09 17:00:13	43	°C
	2021-04-09 17:12:14	43.25	°C
	2021-04-09 17:21:14	43.25	°C
	2021-04-09 17:30:43	43.5	°C
	2021-04-09 17:41:13	43.25	°C
	2021-04-09 17:50:13	43.25	°C
	2021-04-09 18:01:14	43.5	°C

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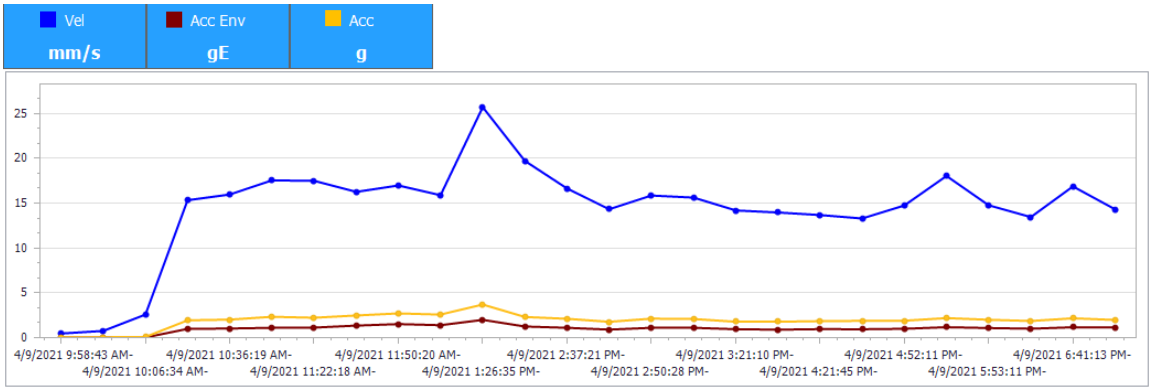
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TREND REPORT

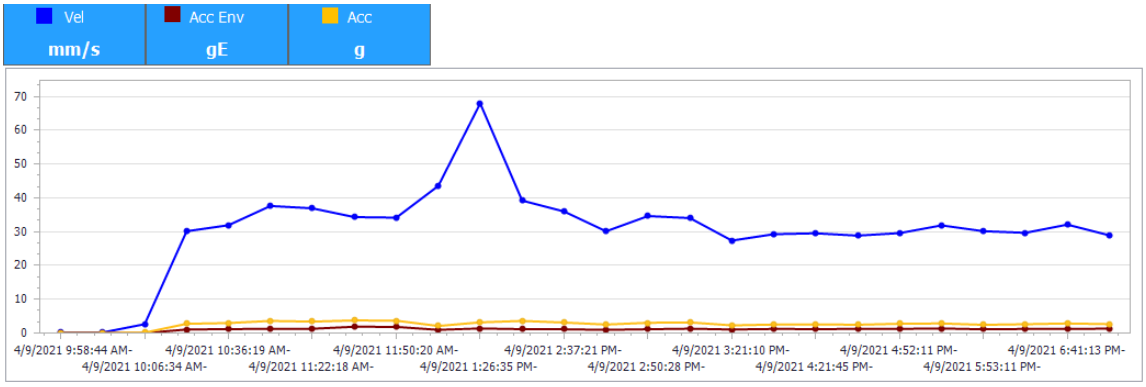
HORIZONTAL



VERTICAL



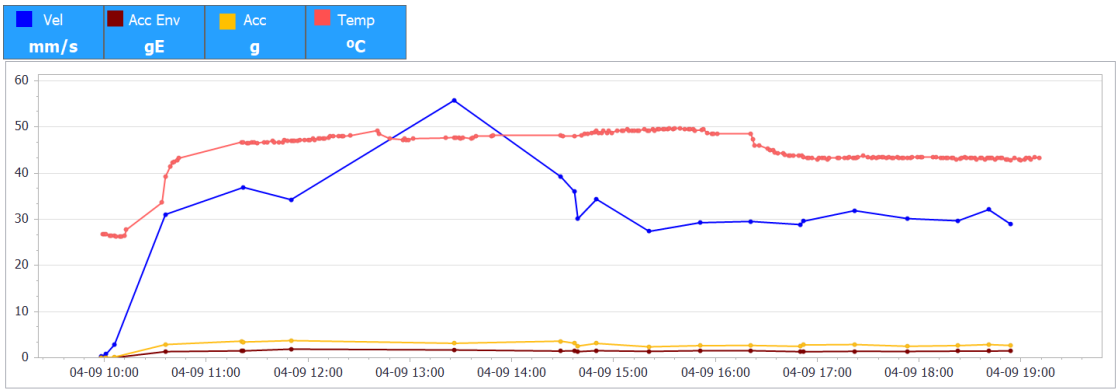
AXIAL



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TREND REPORT

TEMPERATURE (VIBRETION SENSOR)

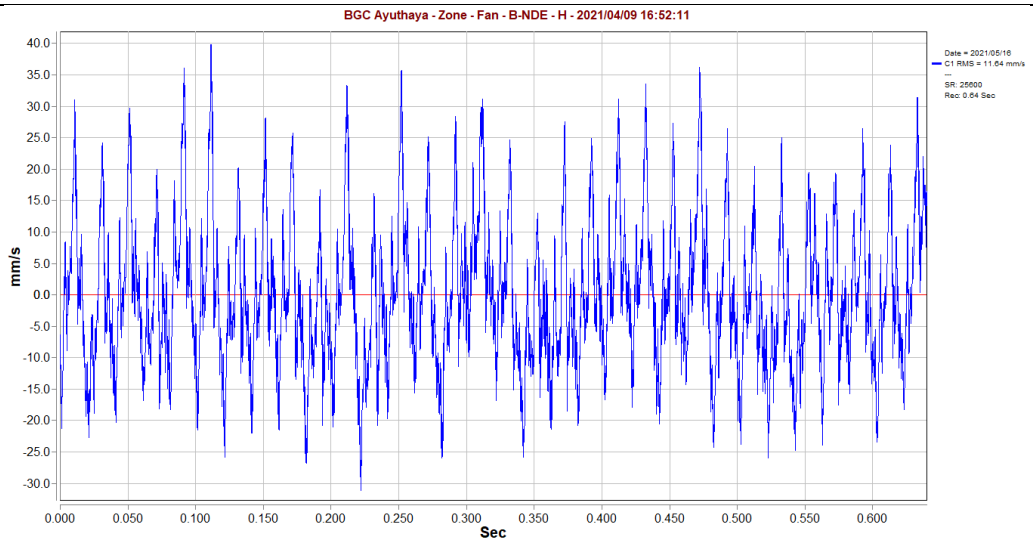


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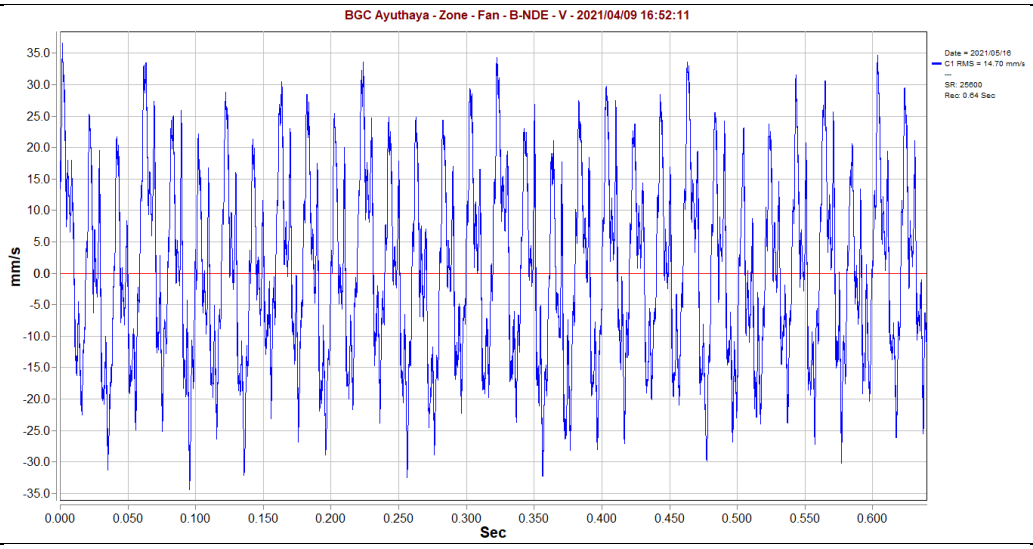
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TIME WAVE FORM REPORT

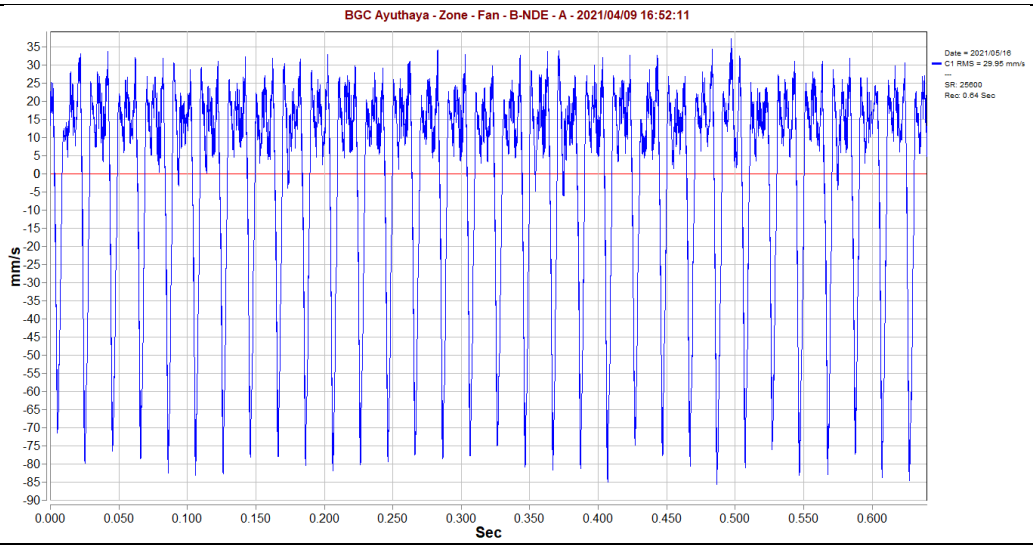
HORIZONTAL



VERTICAL



AXIAL

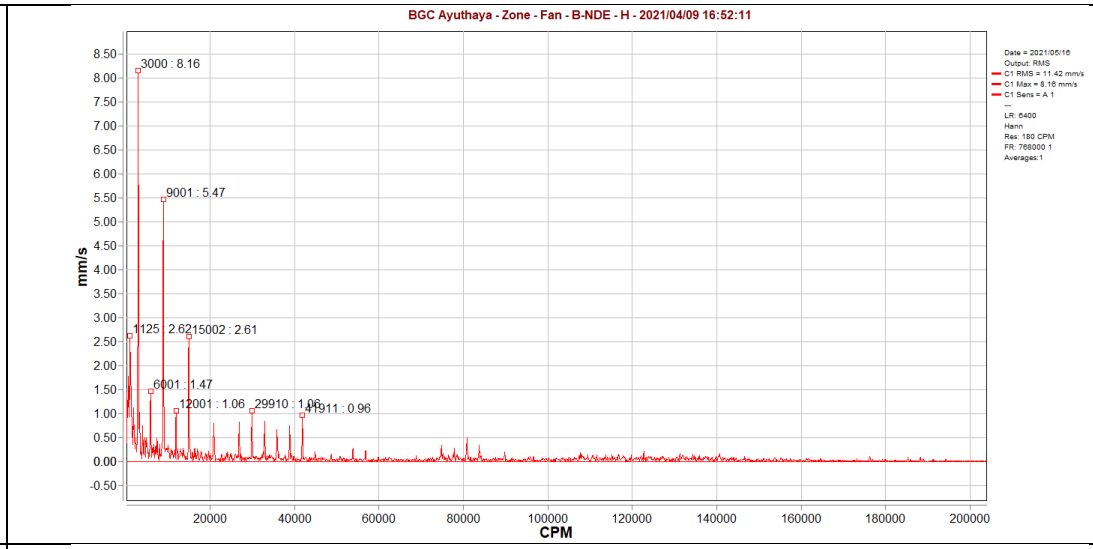


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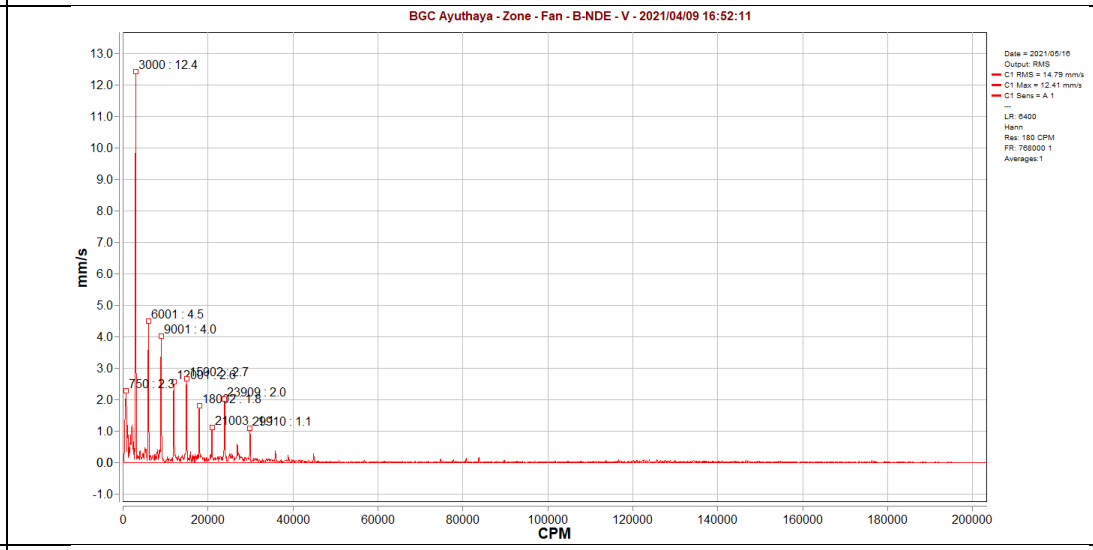
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SPECTRUM REPORT

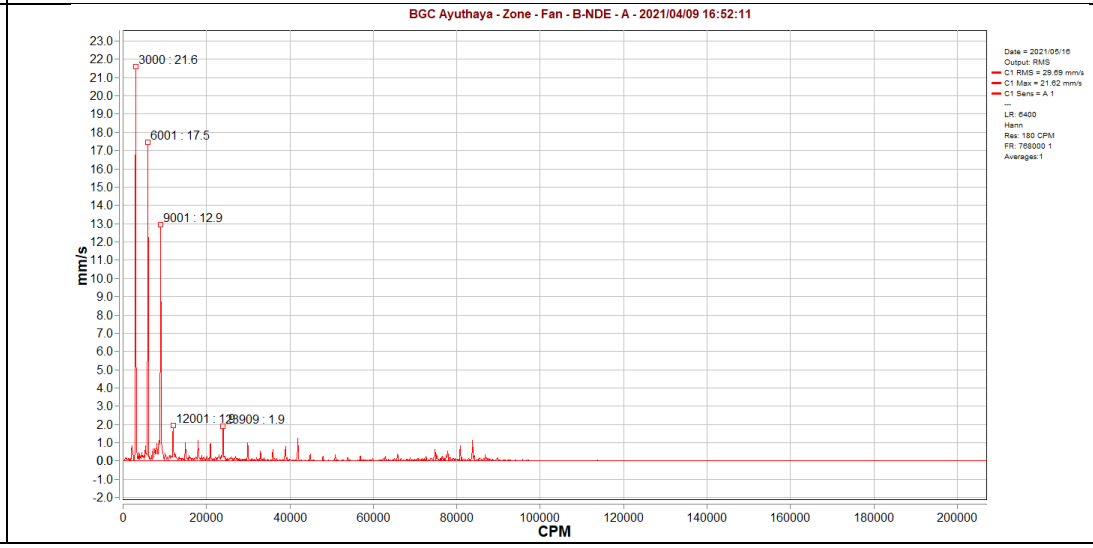
HORIZONTAL



VERTICAL



AXIAL



OBSERVATIONS

The highest vibration was found at the axial direction of the BLOWER-NDE bearing at around 28.95 mm/s (1X at 22.5 mm/s), mainly from the forced draft encountered the over pressure at the blower discharge in each rotating revolution with bearing wear that was confirmed by the high negative peak in each revolution on time waveform.

High vibration level in the vertical axis along the machine bedplate was also found, suspected from the degraded rubber isolator.

RECOMMENDATIONS

- Additionally install the pressure indicator at the blower discharge to confirm the over pressure issue.
- Inspect and correct the bearing wear at the BLOWER-NDE.
- Check the rubber isolator condition and replace if any damages are found.