

NDB 1 –Vibration Report

In this section,

We found Vibration High on Air con cooling pump.

The analysis is given after the tabulation of Vibration results on each equipment measured

NDB 1 –Vibration Report

Name	Type	Date	Value	Unit
DDS 2014\Kara G NDB1\ 02-No2 Main SW pp Mot NDE				
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 9:36:29	2.66	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 9:36:33	0.511	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 9:30:06	1.29	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 9:30:10	0.785	g
Point 4-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 9:37:47	4.56	mm/s
Point 4-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 9:37:52	0.173	g
DDS 2014\Kara G NDB1\ 03-No2 Main SW pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 9:31:01	6	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 9:31:06	0.68	g
Point 1-H\Demod_RMS	Dmd-Wb < None >	3/12/2016 9:31:26	1.33	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 9:31:42	4.75	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 9:31:47	0.756	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 9:32:35	1.37	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 9:32:39	1.05	g
DDS 2014\Kara G NDB1\ 04-No2 Main LO pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 9:53:18	2.53	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 9:53:22	0.426	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 9:54:03	3.31	mm/s

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Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 9:54:08	0.347	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 9:55:20	0.426	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 9:55:25	0.267	g
DDS 2014\Kara G NDB1\ 05-No2 Main LO pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 9:56:41	1.53	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 9:56:46	0.513	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 9:57:32	1.59	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 9:57:36	0.468	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 9:58:30	0.523	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 9:58:34	0.274	g
DDS 2014\Kara G NDB1\ 06-No2 Jkt pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:02:40	4.45	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:02:44	0.114	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:03:15	3.63	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:03:19	0.135	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:04:01	1.28	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:04:05	0.133	g
DDS 2014\Kara G NDB1\ 07-No2 Jkt pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 10:52:01	3.36	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 10:52:06	0.189	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:00:08	3.18	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:00:13	0.225	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:00:53	1.41	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:00:57	0.247	g
Point 4\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:01:34	2.79	mm/s
Point 4\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:01:38	0.193	g

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DDS 2014\Kara G NDB1\ 08-Scrubber pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:20:35	1.6	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:20:40	0.394	g
Point 1-H\DEMOD RMS	Dmd-Wb < None >	3/12/2016 11:20:58	1.25	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:21:22	2.75	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:21:27	0.28	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:22:09	0.82	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:22:14	0.019	g
DDS 2014\Kara G NDB1\ 09-Scrubber pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:28:07	1.12	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:28:11	0.258	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:28:48	1.89	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:28:52	0.272	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:30:07	0.852	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:30:10	0.335	g
DDS 2014\Kara G NDB1\ 10-Vac Cond pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:55:37	2.89	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:55:42	1.41	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:56:15	3.98	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:56:19	1.8	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:59:39	1.33	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:59:43	0.359	g
DDS 2014\Kara G NDB1\11-Vac Cond pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:57:05	2.85	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:57:09	1.18	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:57:48	3.05	mm/s

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Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:57:52	1.38	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 11:58:24	1.03	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 11:58:28	0.399	g
DDS 2014\Kara G NDB1\12-Ejector pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:05:26	3.09	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:05:29	0.26	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:06:04	4.35	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:06:08	0.248	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:06:42	2.75	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:06:45	0.513	g
DDS 2014\Kara G NDB1\ 13-Ejector pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:07:25	4.68	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:07:29	0.376	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:08:02	3.43	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:08:07	0.357	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:08:45	1.7	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:08:49	0.241	g
DDS 2014\Kara G NDB1\ 14-AC cooling pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:39:05	18.7	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:39:10	0.085	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:39:46	21.5	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:39:50	0.194	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:40:27	2.36	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:40:31	0.177	g
DDS 2014\Kara G NDB1\15--AC cooling pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:41:17	15.3	mm/s

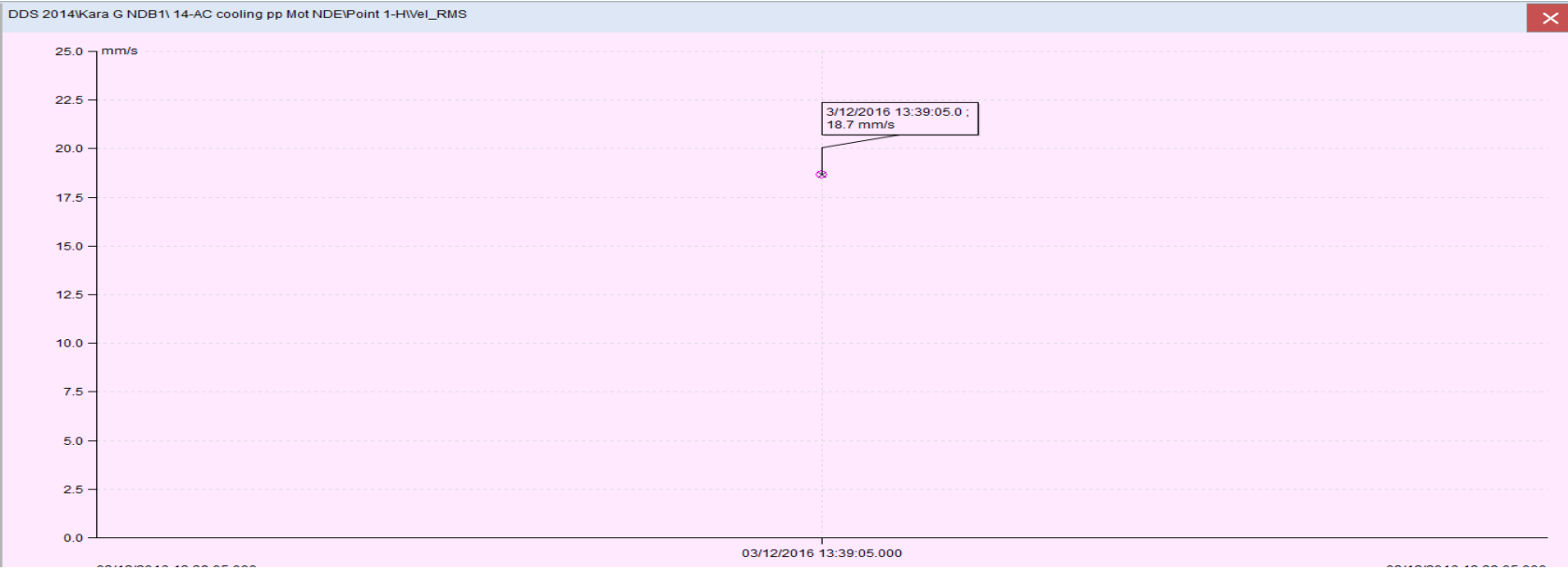
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Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:41:21	0.061	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:41:56	18.6	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:42:00	0.037	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:43:19	3.08	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:43:22	0.148	g
Point 4\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:43:59	0.462	mm/s
Point 4\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:44:06	0.004	g
DDS 2014\Kara G NDB1\ 16-No2 Aux CIng SW pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:54:37	3.18	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:54:41	0.128	g
Point 1-H\Demod_RMS	Dmd-Wb < None >	3/12/2016 13:55:01	0.199	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:55:24	3.83	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:55:28	0.243	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:56:16	1.1	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:56:20	0.009	g
Point 3-A\Demod_RMS	Dmd-Wb < None >	3/12/2016 13:56:41	0.018	g
DDS 2014\Kara G NDB1\17-No2 Aux CIng SW pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:57:10	2.57	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:57:15	0.041	g
Point 1-H\Demod_RMS	Dmd-Wb < None >	3/12/2016 13:57:35	0.078	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 13:58:01	3.36	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 13:58:05	0.024	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 14:36:12	0.954	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 14:36:17	0.122	g
DDS 2014\Kara G NDB1\ 19-No2 X hd LO pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 14:55:14	3.43	mm/s

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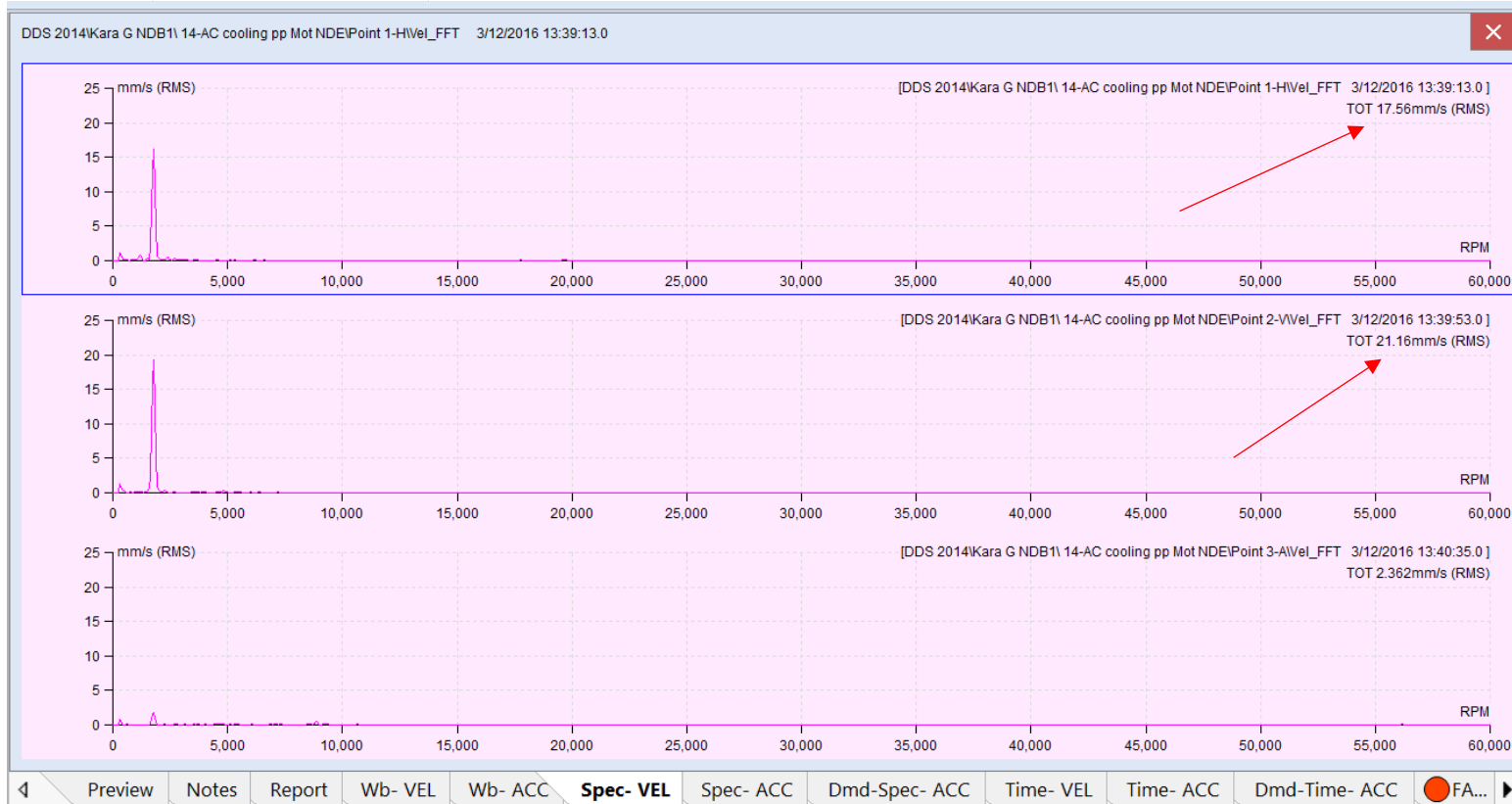
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 14:55:18	0.096	g
Point 1-H\Demod_RMS	Dmd-Wb < None >	3/12/2016 14:55:37	0.154	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 14:56:00	6.34	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 14:56:04	0.087	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 14:56:37	1.54	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 14:56:42	0.078	g
DDS 2014\Kara G NDB1\20--No2 X hd LO pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 14:57:23	2.93	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 14:57:27	0.14	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 14:58:03	4.01	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 14:58:07	0.132	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	3/12/2016 14:58:41	1.69	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	3/12/2016 14:58:46	0.167	g

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RMS value 18.7 mm/s and the limit is 12 mm/s

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**Vibration levels very high in H & V Direction. Level beyond the limit of 12 mm/s. Further High level in Vibration noted only in 1 X.
This is due to Unbalance and the Impeller to be balanced**

NDB 1 –Vibration Report

DDS 2014\Kara G NDB1\14-AC cooling pp Mot NDE\Point 1-HIFASIT 3/12/2016 13:39:30.0

