

Ndb 3- Report

In this section, we found no1 Auxiliary engine Sea water pump vibration high. We recommend balancing the impeller and check the shaft trueness

Graphical analysis is given at the end of this section

Name	Type	Date	Value	Unit
DDS 2014\Kara G-ndb3\ 01-No3 Aux eng Alt shaft lvl				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:04:02	5.64	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:04:05	0.412	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:05:02	5.33	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:05:06	0.509	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:05:42	5.49	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:05:46	0.569	g
DDS 2014\Kara G-ndb3\ 02- No 3 Alt NDE Top				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:06:43	3.13	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:06:47	0.547	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:07:26	3.5	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:07:31	0.69	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:08:09	2.07	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:08:13	0.834	g
DDS 2014\Kara G-ndb3\03- No 3 Alt NDE Bot				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:09:04	5.49	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:09:08	0.587	g
Point 1-H\Demod_RMS	Dmd-Wb < None >	4/12/2016 9:09:28	1.11	g

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Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:09:42	4.25	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:09:46	0.748	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:10:26	5.52	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:10:30	0.406	g
DDS 2014\Kara G-ndb3\ 04-No3 Aeng NDE Top				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:13:44	7.89	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:13:48	1.45	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:14:27	4.89	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:14:32	2.29	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:15:05	6.61	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:15:09	3.05	g
DDS 2014\Kara G-ndb3\05-No Aeng TCh				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:16:59	17.3	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:17:03	0.958	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:17:56	11.4	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:17:59	2.02	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 9:19:13	18.7	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 9:19:17	1.3	g
DDS 2014\Kara G-ndb3\ 06-No1 Jkt pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 10:26:28	7.2	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 10:26:33	0.229	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 10:27:09	7.15	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 10:27:12	0.232	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 10:27:52	2.82	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 10:27:56	0.204	g
DDS 2014\Kara G-ndb3\ 07-No1 Jkt pp Mot DE				

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Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 10:28:48	8.31	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 10:28:51	0.061	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 10:29:26	4.68	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 10:29:30	0.126	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 10:30:05	3.08	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 10:30:08	0.115	g
DDS 2014\Kara G-ndb3\08-No1 Aux SW pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 10:54:22	14.8	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 10:54:25	0.258	g
Point 1-H\DEMOD RMS	Dmd-Wb < None >	4/12/2016 10:54:42	0.515	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 10:55:08	6.41	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 10:55:12	0.161	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 10:55:52	2.33	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 10:55:55	0.106	g
DDS 2014\Kara G-ndb3\09--No1 Aux SW pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 10:57:56	8.11	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 10:58:00	0.137	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 10:58:44	4.21	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 10:58:48	0.092	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 10:59:27	1.62	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 10:59:31	0.153	g
DDS 2014\Kara G-ndb3\10-No1 Main LO pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 11:35:45	15.8	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 11:35:49	0.494	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 11:36:25	3.01	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 11:36:29	0.248	g

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Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 11:38:09	1.26	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 11:38:13	0.151	g
Point 4\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 11:38:50	14.9	mm/s
Point 4\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 11:38:54	0.217	g
DDS 2014\Kara G-ndb3\11-No1 Main LO pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 11:29:29	8.48	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 11:29:33	0.327	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 11:30:09	3.04	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 11:30:13	0.294	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 11:33:42	2.18	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 11:33:47	0.181	g
DDS 2014\Kara G-ndb3\ 12-No1 CSW pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 12:58:57	5.53	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 12:59:02	0.378	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:00:18	7.66	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:00:22	0.162	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:01:02	1.62	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:01:06	0.059	g
DDS 2014\Kara G-ndb3\ 13-No1 CSW pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:02:27	4	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:02:32	0.425	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:03:06	5.06	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:03:11	0.387	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:03:49	1.59	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:03:53	0.487	g
DDS 2014\Kara G-ndb3\14-No1 Aux Eng Alt Shaft level				

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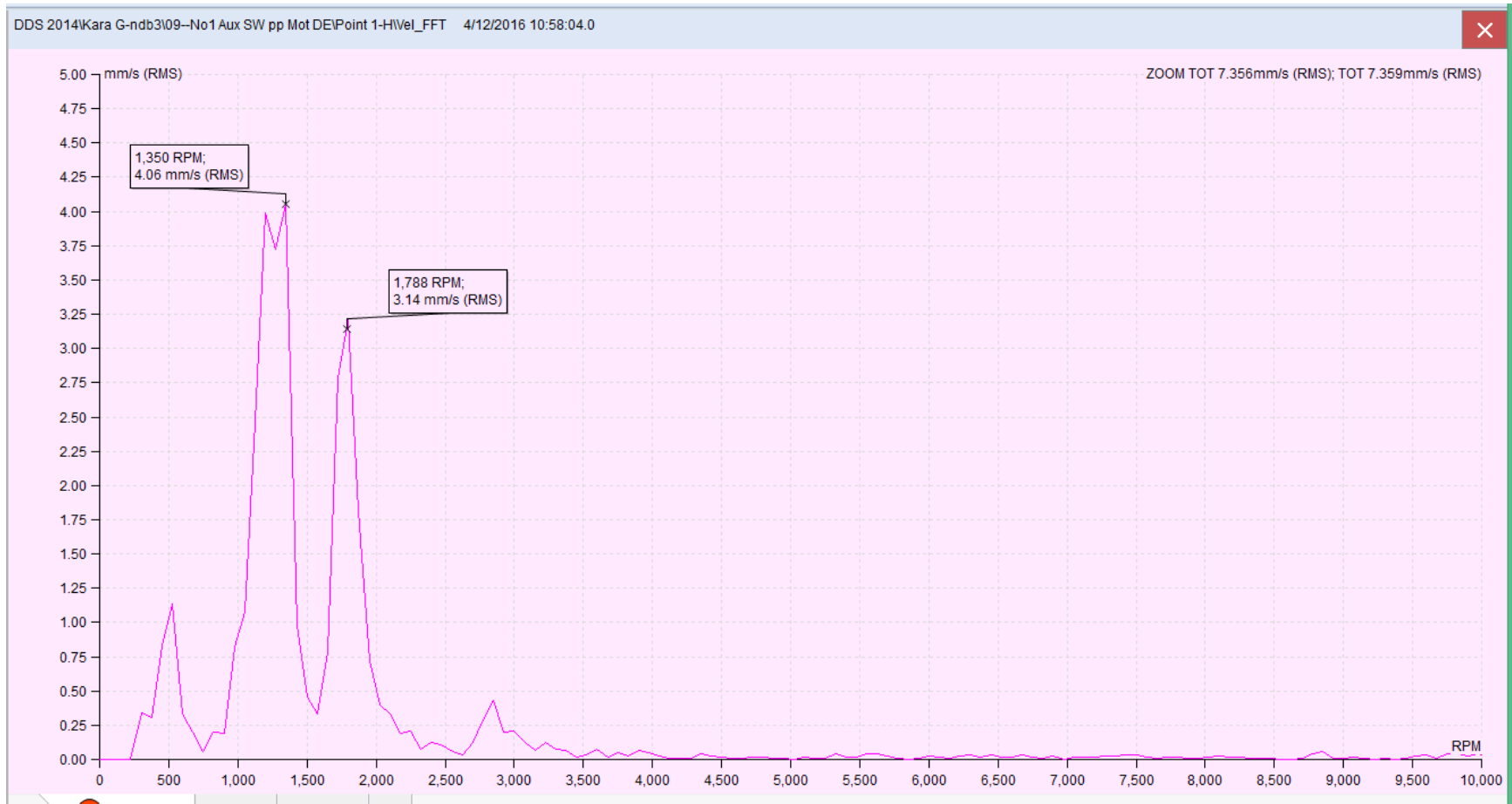
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:32:58	7.71	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:33:01	0.344	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:33:51	4.54	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:33:55	0.351	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:34:26	5.16	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:34:30	0.904	g
DDS 2014\Kara G-ndb3\15- No1 Alt NDE Top				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:35:12	4.35	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:35:16	0.536	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:36:40	3.15	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:36:44	0.747	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:37:18	2.29	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:37:22	0.711	g
DDS 2014\Kara G-ndb3\16- No1 Alt NDE Bot				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:38:07	7.06	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:38:12	0.747	g
Point 1-H\Demod_RMS	Dmd-Wb < None >	4/12/2016 13:38:32	1.29	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:38:53	4.22	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:38:57	0.459	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:39:30	4.94	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:39:34	0.284	g
Point 3-A\Demod_RMS	Dmd-Wb < None >	4/12/2016 13:39:54	0.572	g
DDS 2014\Kara G-ndb3\17- No 1 Aeng NDE Top				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:41:36	9.74	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:41:40	0.824	g
Point 1-H\Demod_RMS	Dmd-Wb < None >	4/12/2016 13:41:59	2	g

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Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:42:29	6.04	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:42:34	2.21	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:43:06	6.86	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:43:10	1.44	g
DDS 2014\Kara G-ndb3\18 No1 Aeng Tch				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:43:59	15.4	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:44:03	1.22	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:44:39	14.1	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:44:43	1.17	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 13:45:16	22.5	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 13:45:21	1.73	g
DDS 2014\Kara G-ndb3\ 19-No 1 X head LO pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 14:23:42	8.78	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 14:23:46	0.375	g
Point 1-H\Demod_RMS	Dmd-Wb < None >	4/12/2016 14:24:06	0.552	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 14:24:26	9.72	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 14:24:29	0.224	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 14:25:17	2.22	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 14:25:21	0.275	g
DDS 2014\Kara G-ndb3\20- No 1 Xhd LO pump Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 14:26:54	7.19	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 14:26:58	0.401	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 14:27:46	9.99	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 14:27:50	0.448	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 14:28:35	2.96	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 14:28:39	0.813	g

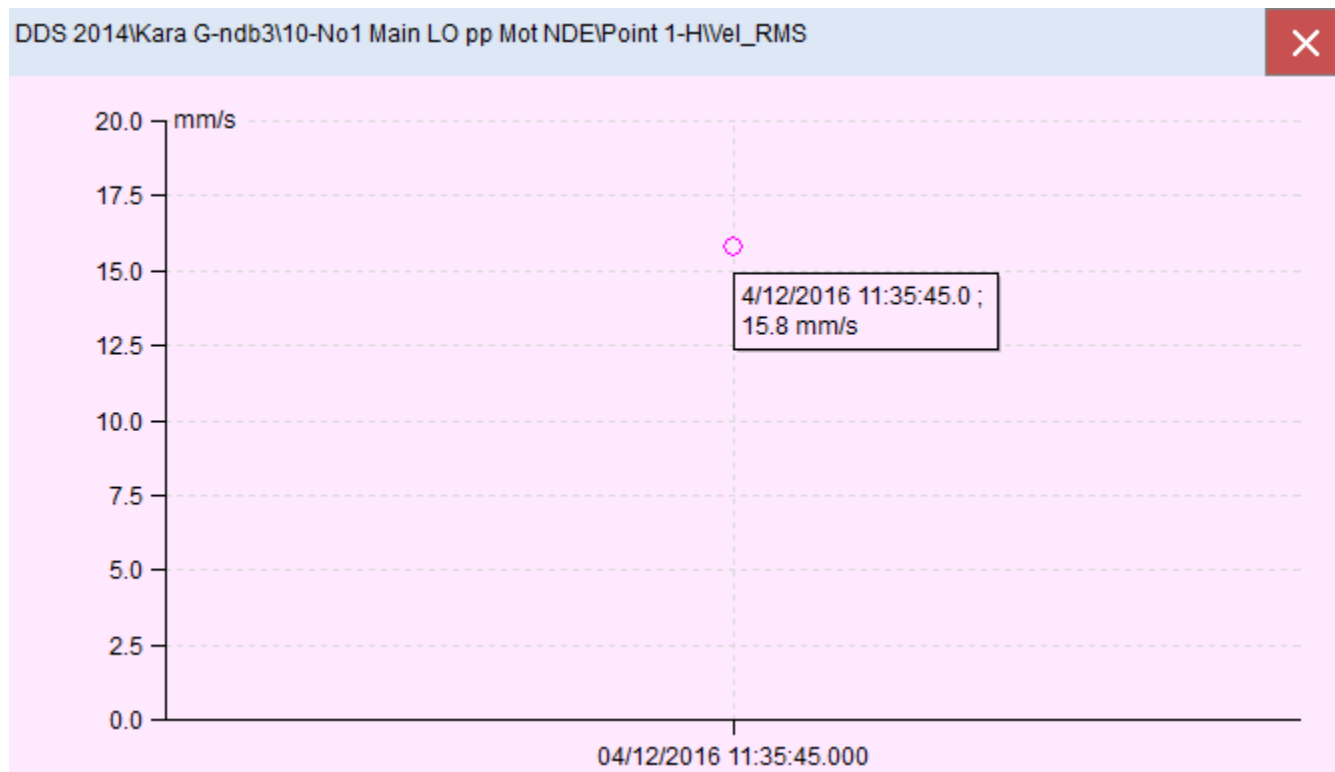
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Point 4\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	4/12/2016 14:29:10	3.46	mm/s
Point 4\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	4/12/2016 14:29:14	0.756	g



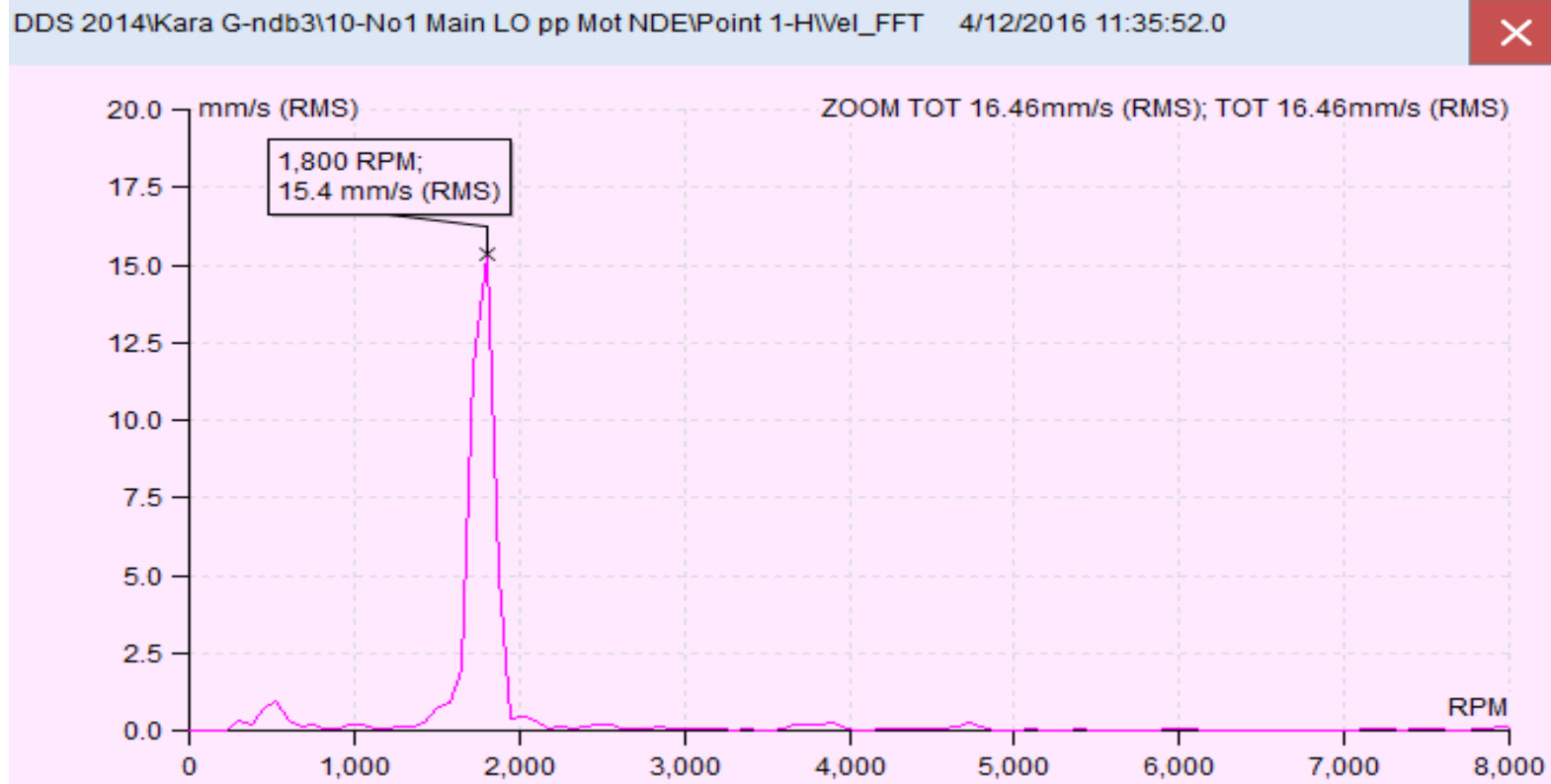
High Vibration around 40X to 80X indicate cavitation or severe bearing wear.

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Vibration Higher than the limit of 12 mm/s RMS

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1 X peak 15.4 mm/s

In this case, it is due to Unbalance and as such Balancing of the impeller is recommended