NDB 8-Vibration Report

In this section, we found vibration high for

Air Handling unit Motor

No1 Air Con Compressor: High vibration is coming from flapping belt & Pulley eccentricity. Once corrected, vibrations to be checked again

No2 Condensate pump

Detailed analysis given at the end of this section

Name	Type	Date	Value	Unit
DDS 2014\Kara G-ndb 8\01-No2 Pump Room Blwr Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 9:46:24	1.3	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 9:46:29	0.164	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 9:47:08	0.719	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 9:47:12	0.093	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 9:47:49	1.31	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 9:47:54	0.019	g
DDS 2014\Kara G-ndb 8\ 02-No 1 Pump Room Blwr Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 9:48:54	1.26	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 9:48:59	0.121	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 9:49:37	0.602	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 9:49:41	0.18	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 9:50:17	0.99	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 9:50:20	0.098	g
DDS 2014\Kara G-ndb 8\ 03-No2 Aircon Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:29:04	2.9	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:29:09	0.755	g
Point 1-H\Demod_RMS	Dmd-Wb < None >	6/12/2016 10:29:31	1.47	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:31:05	5.68	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:31:10	0.678	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:32:00	3.43	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:32:04	0.518	g
DDS 2014\Kara G-ndb 8\ 04-No2 Aircon Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:33:58	3.46	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:34:02	0.578	g

NDB 8-Vibration Report

Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:34:51	2.88	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:34:56	0.844	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:36:28	3.62	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:36:32	0.376	g
DDS 2014\Kara G-ndb 8\05-No2 Air con Com Top				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:39:22	7.14	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:39:27	0.659	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:40:42	3.17	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:40:47	0.684	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:41:32	3.32	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:41:37	0.676	g
DDS 2014\Kara G-ndb 8\ 06-AHU Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:43:19	20	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:43:23	0.165	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:44:58	2.69	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:45:02	0.535	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:46:36	6.85	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:46:40	0.238	g
Point 4\H-Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:47:51	16.2	mm/s
Point 4\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:47:55	0.108	g
DDS 2014\Kara G-ndb 8\07-N01 Air con Comp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:50:36	17.6	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:50:40	0.435	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:51:32	14.3	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:51:36	0.588	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:52:42	1.55	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:52:46	0.433	g
DDS 2014\Kara G-ndb 8\ 08-N01 Air con Comp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:53:28	13.5	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:53:32	0.457	g
Point 1-H\DEMOD RMS	Dmd-Wb < None >	6/12/2016 10:53:51	0.993	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:54:35	8.1	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:54:39	0.729	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:55:35	2	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:55:39	0.637	g
DDS 2014\Kara G-ndb 8\09-No1 Air Con Comp Top				

Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:57:55	5.04	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:57:59	0.492	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:58:46	8.73	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:58:51	0.33	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 10:59:25	3.87	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 10:59:29	0.385	g
DDS 2014\Kara G-ndb 8\ 10-No2 Aeng Alt end bearing				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:03:58	7.23	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:04:03	0.333	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:04:43	4.19	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:04:47	0.338	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:05:18	5.56	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:05:24	0.385	g
DDS 2014\Kara G-ndb 8\11-No2 Alt Top NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:06:10	7.51	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:06:15	0.341	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:06:52	4.04	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:06:56	0.43	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:07:27	5.14	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:07:32	0.273	g
DDS 2014\Kara G-ndb 8\12-No2 Alt Bot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:08:48	5.14	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:08:52	0.417	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:09:31	4.18	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:09:36	0.627	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:10:10	1.88	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:10:13	0.892	g
DDS 2014\Kara G-ndb 8\13-No 2 Aeng Top NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:12:02	10.4	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:12:06	2.31	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:12:41	5.22	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:12:45	2.42	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:13:26	6.41	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:13:30	1.42	g
DDS 2014\Kara G-ndb 8\14-No2 Aeng Tch				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:14:14	15.3	mm/s

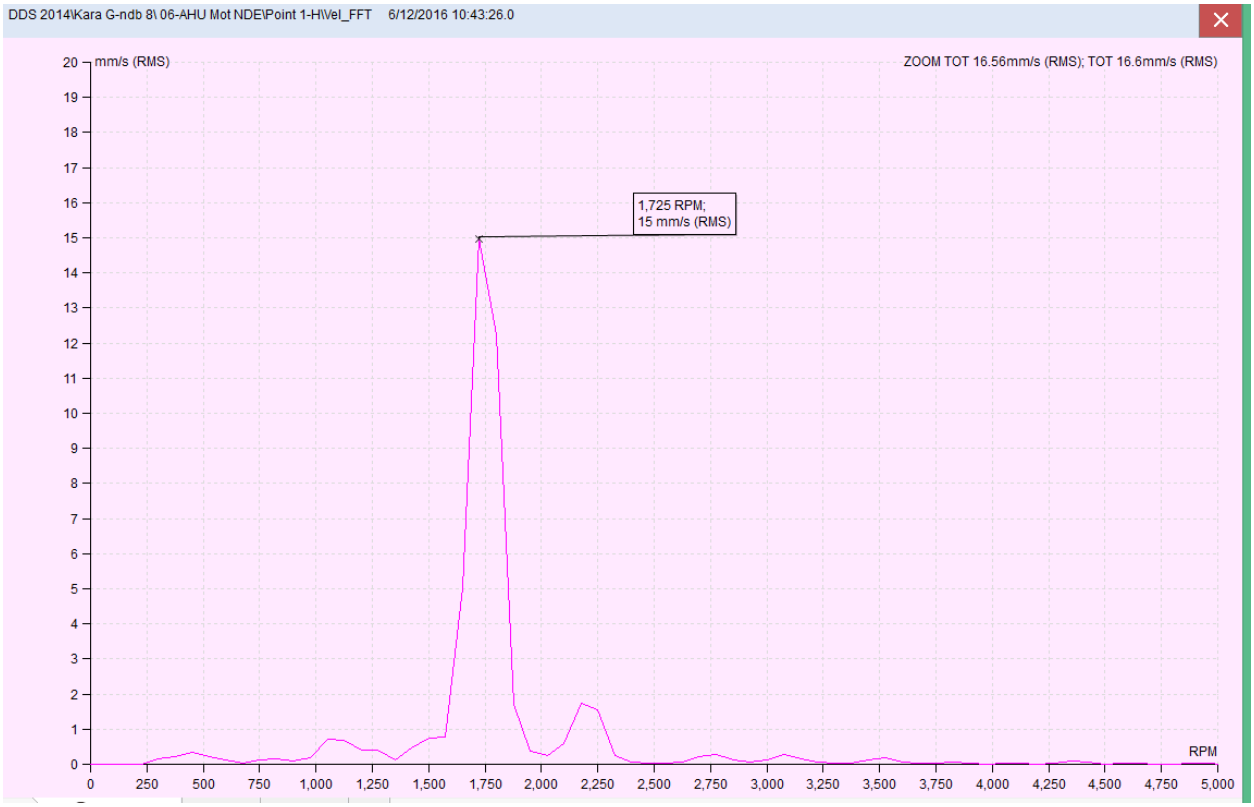
NDB 8-Vibration Report

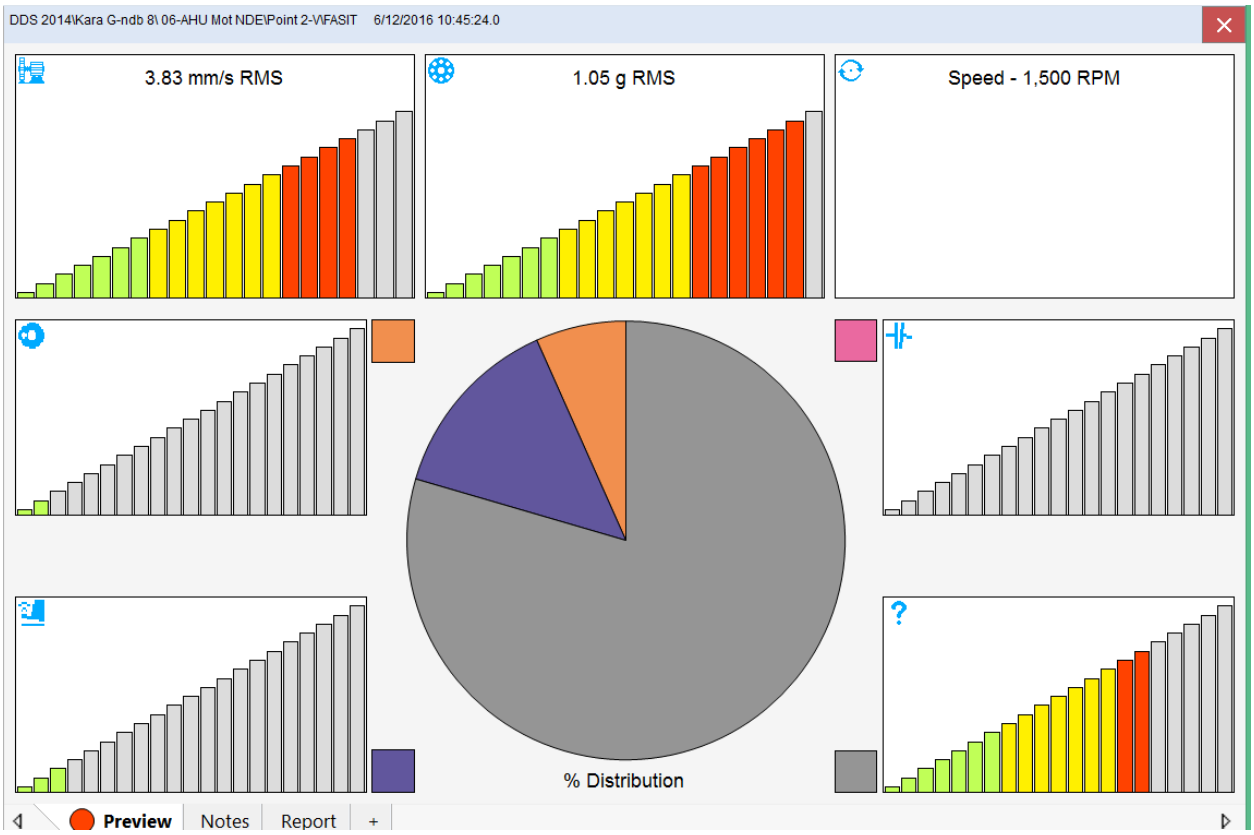
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:14:18	0.834	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:14:49	15.9	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:14:52	1.1	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:16:01	24.9	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:16:05	0.434	g
DDS 2014\Kara G-ndb 8\15-No2 Condenstae pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:46:08	8.87	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:46:13	0.122	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:46:49	9.8	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:46:53	0.063	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:47:31	2.29	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:47:36	0.049	g
DDS 2014\Kara G-ndb 8\ 16-No2 Condensate pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:48:41	6.39	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:48:45	0.105	g
Point 1-H\Demod_RMS	Dmd-Wb < None >	6/12/2016 12:49:04	0.275	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:49:48	8.79	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:49:53	0.112	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 12:50:33	3.02	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 12:50:37	0.179	g
Point 3-A\Demod_RMS	Dmd-Wb < None >	6/12/2016 12:50:53	0.374	g
DDS 2014\Kara G-ndb 8\17--No 1 Condenstae pp Mot NDE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 13:02:27	5.33	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 13:02:31	0.249	g
Point 1-H\Demod_RMS	Dmd-Wb < None >	6/12/2016 13:02:50	0.527	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 13:03:08	6.23	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 13:03:13	0.229	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 13:03:47	1.36	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 13:03:51	0.146	g
DDS 2014\Kara G-ndb 8\Machine 18--No 1 Condensate pp Mot DE				
Point 1-H\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 13:04:41	2.7	mm/s
Point 1-H\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 13:04:45	0.479	g
Point 2-V\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 13:05:23	4.86	mm/s
Point 2-V\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 13:05:28	0.747	g
Point 3-A\Vel_RMS	Vel RMS (600 - 60,000 [RPM])	6/12/2016 13:06:12	1.08	mm/s
Point 3-A\Acc_RMS	Acc RMS (30,000 - 960,000 [RPM])	6/12/2016 13:06:15	0.543	g

NDB 8-Vibration Report

Unbalance, Bent shaft, Eccentric Pulley for AHU motor

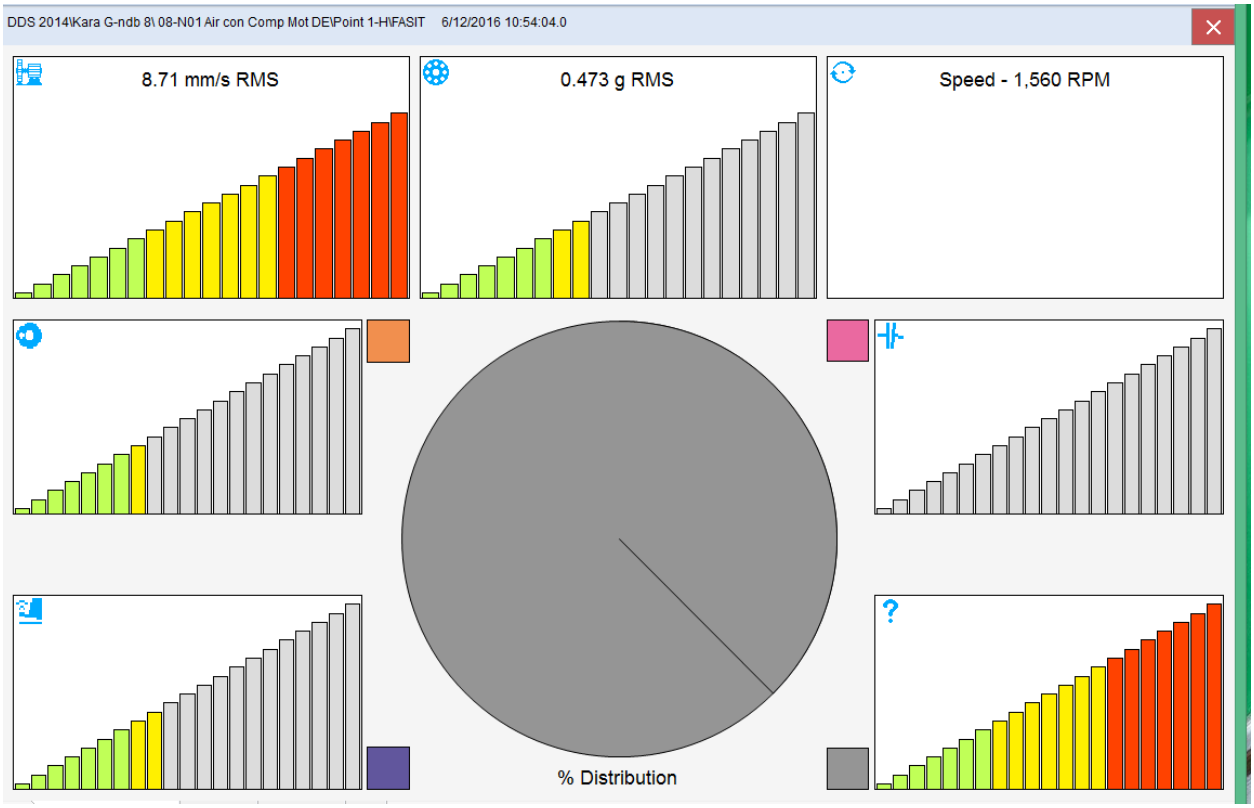
NDB 8-Vibration Report





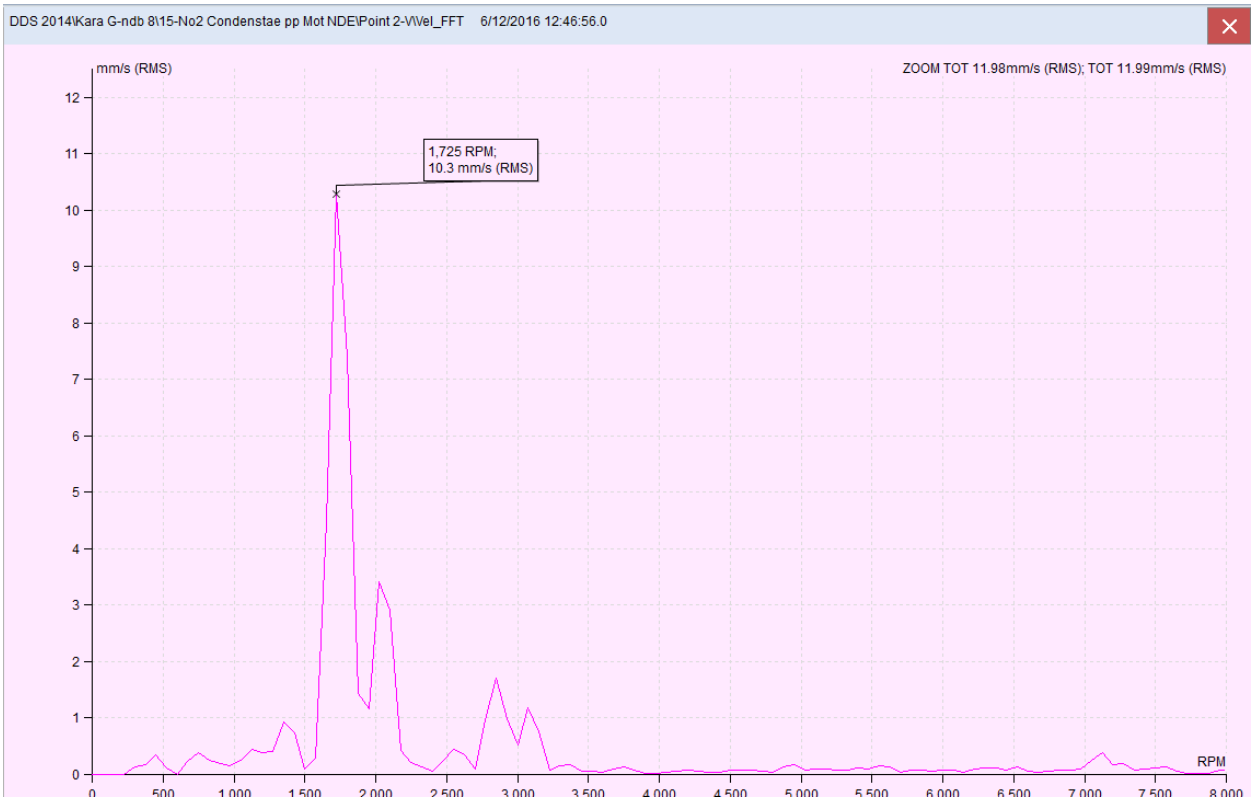
NDB 8-Vibration Report

No1 Air Con Compressor



NDB 8-Vibration Report

No2 Condensate pump



NDB 8-Vibration Report