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PROACTIVE
ENGINEERING

Case Study

Closed Cycle Pump - Bearing Defect





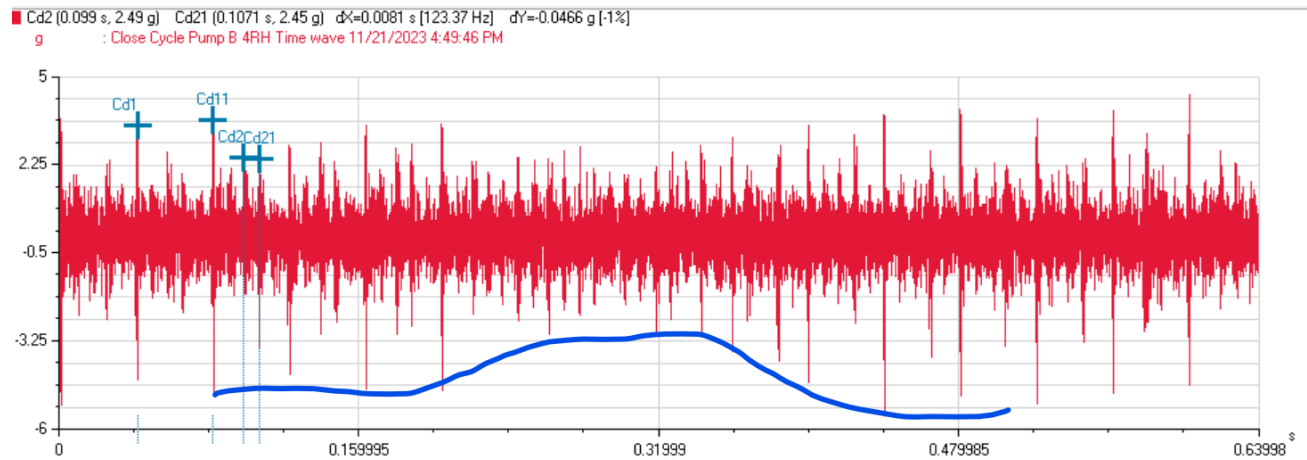
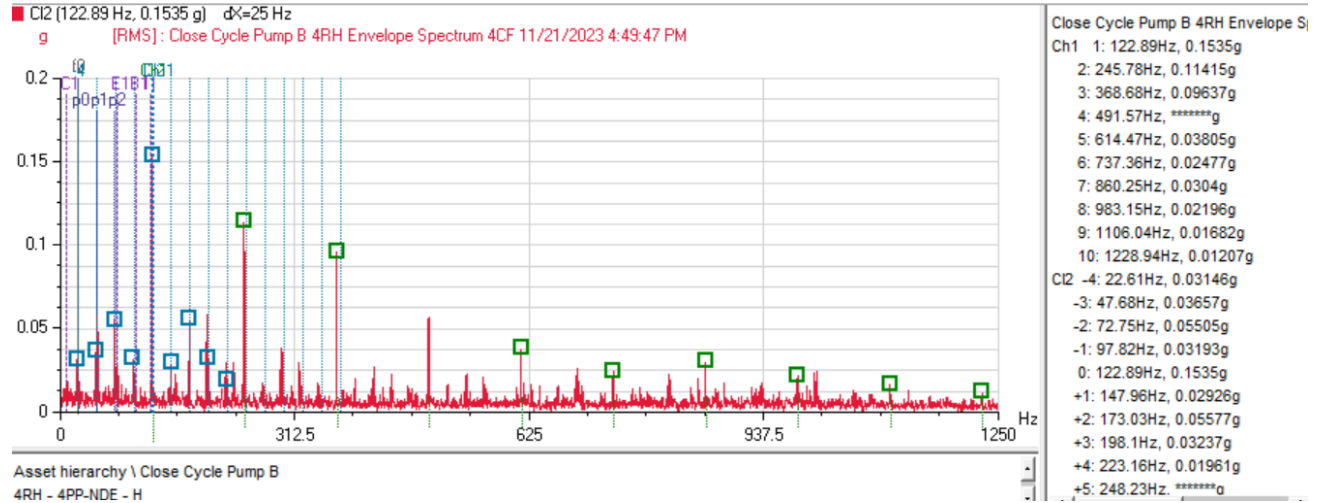
Machine Health Matrix

Bearing Defect Factor™

	1MT-NDE			2MT-DE			3PP-DE			4PP-NDE		
	1Ax	1RH	1RV	2Ax	2RH	2RV	3Ax	3RH	3RV	4Ax	4RH	4RV
Overall Vib Vel	1.31	1.05	0.884	1.63	3.38	1.5	0.975	1.21	1.29	0.955	0.946	0.795
Overall Acc	0.326	0.242	0.235	0.826	0.654	0.35	0.441	1.08	1.05	0.531	0.77	0.902
Defect factor	2.42	2.16	2.24	3.7	3.43	2.8	3.86	3.44	3.56	4.04	4.37	4.51
SFx	0	0	0	0	0	0	1	4	1	0	5	5
HMx	1	1	1	2	1	1	1	1	1	1	2	2
Ovll Acc Pk-Pk	2.35	1.55	1.71	6.77	5.51	2.87	4.3	23.8	5.33	3.86	10.1	11.5
Spectrum LF	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐
Spectrum MF	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐
Spectrum HF	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐
Envelop spectrum	-	-	-	-	-	-	-	-	-	-	-	-
Time wave	~	~	~	~	~	~	~	~	~	~	~	~
Velocity Spectrum	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐
Envelope Spectrum 4CF	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐	└┐



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