

Fluke 810 Diagnostic Report

The Fluke 810 Vibration Tester makes tracking machine health easy with Viewer PC software. The included Viewer software helps you quickly generate .PDF-format reports that include your drive train's setup and diagnostic information, as well as the backup spectra. The software also lets you tell a more complete story by uploading images of your machinery (.JPG or Fluke .IS2 format).

This document is a sample Fluke 810 diagnostic report. Actual report appearance will depend on the data captured and images selected for inclusion. To learn more, visit www.fluke.com/viewer-software or email vibration@fluke.com.

Date:10/12/2010 5:50 PM

810 Vibration Tester Diagnostic Report

Device Serial Number : VibrationTester1
 Machine Setup Name : USCC
 Measurement Date/Time : 05/18/2010 11:48:10

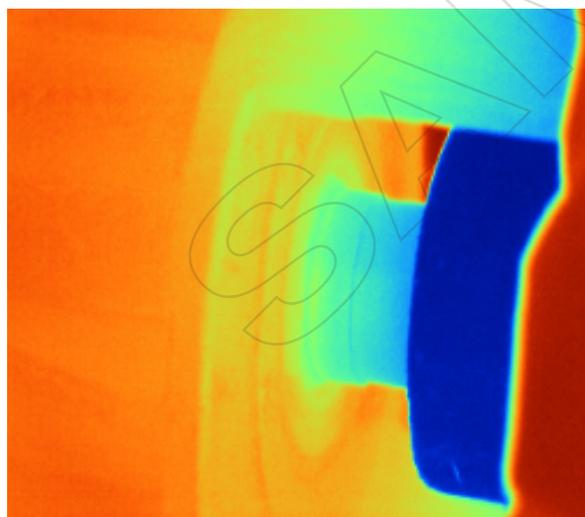
Drive Train



Diagnosis

Fault description	Fault severity	Severity Score	Severity Scale
Pump Free End Ball Bearing Wear	Moderate	31/100	
Pump Drive End Ball Bearing Wear	Moderate	30/100	
Pump Drive End Looseness Or Bearing Clearance Problem	Slight	8/100	

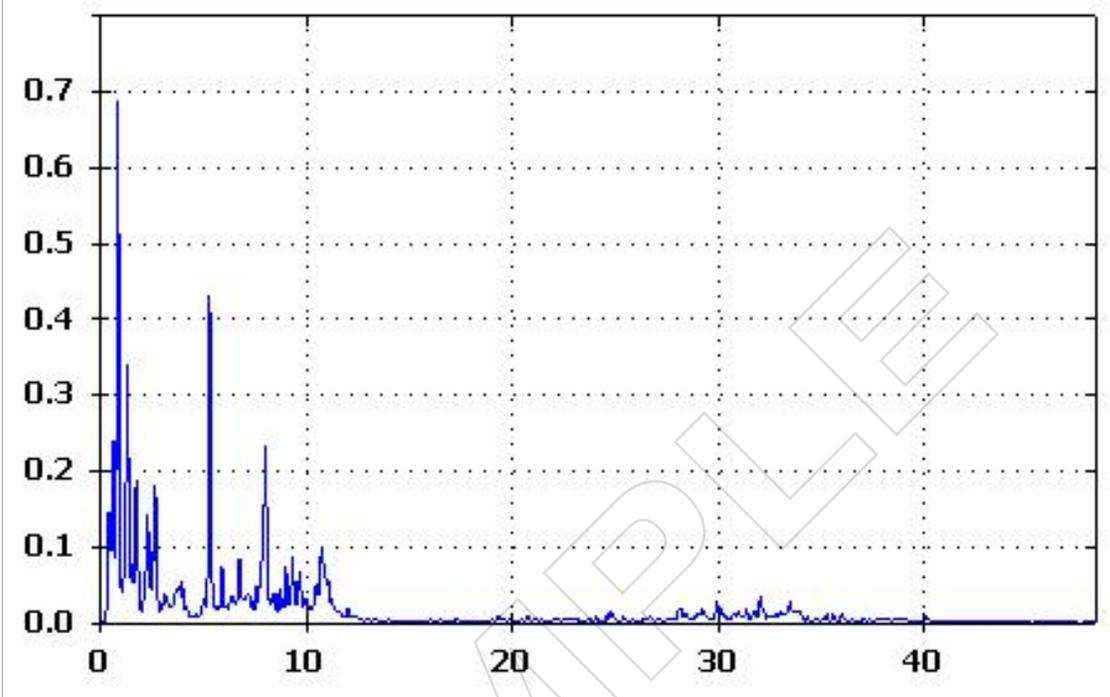
Image



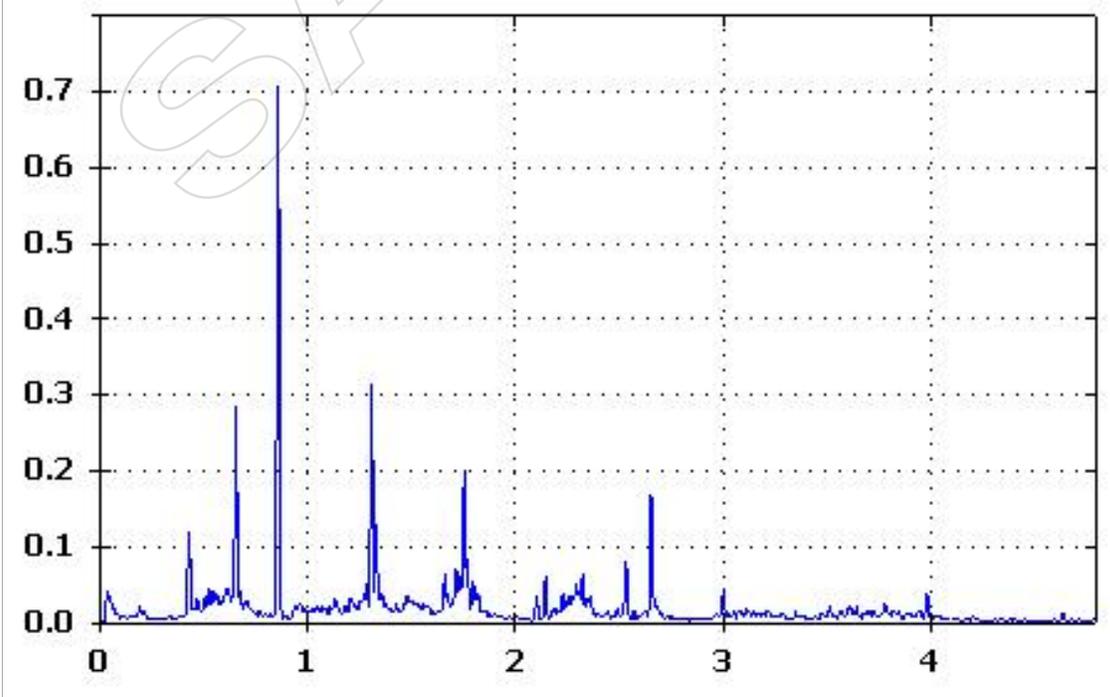
Recommendations

Recommendations	Priority	Priority Description
Monitor All Pump Bearings For Increased Vibration	2	Desirable

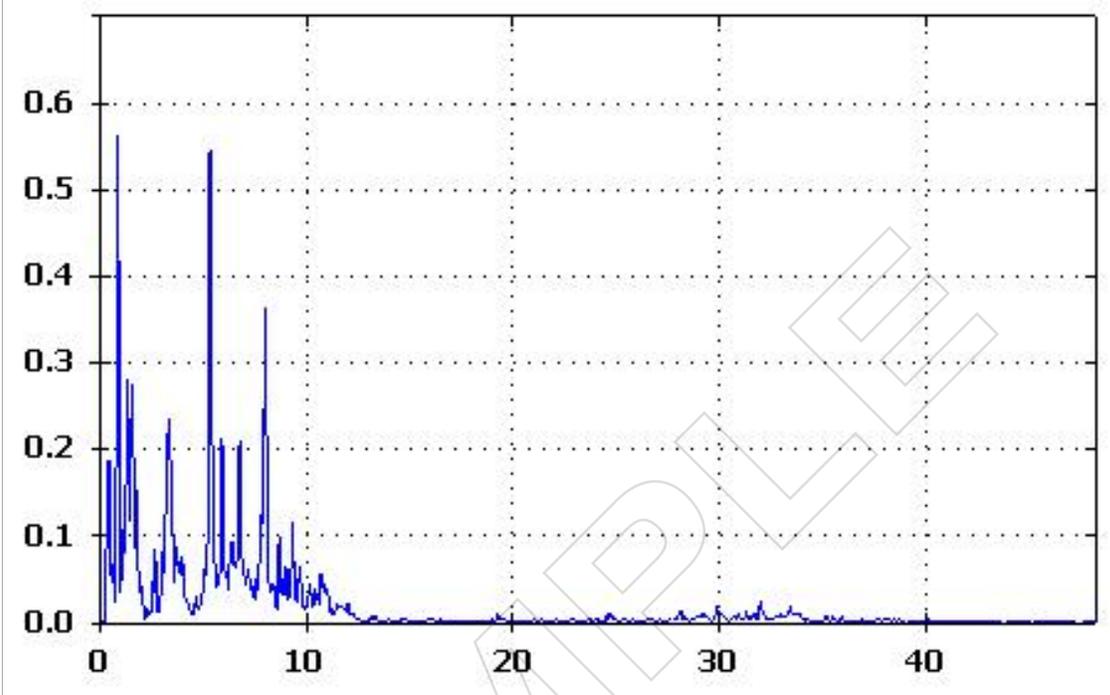
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Range : High range
Axis : Axial
X Axis Unit : Orders
Y Axis Unit : mm/sec



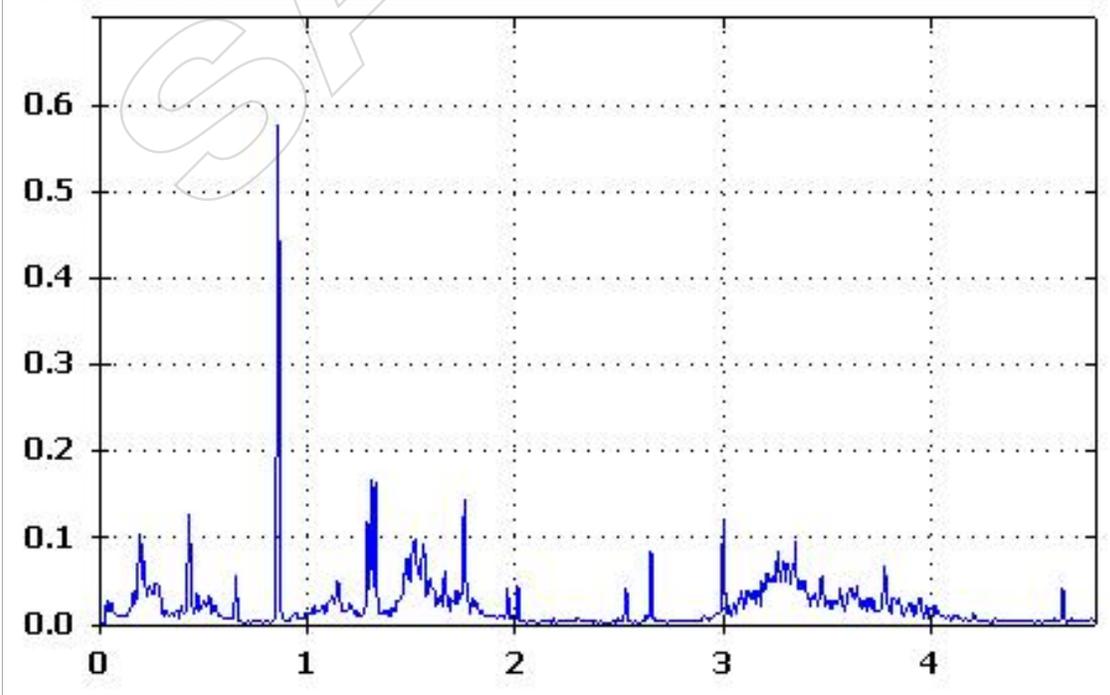
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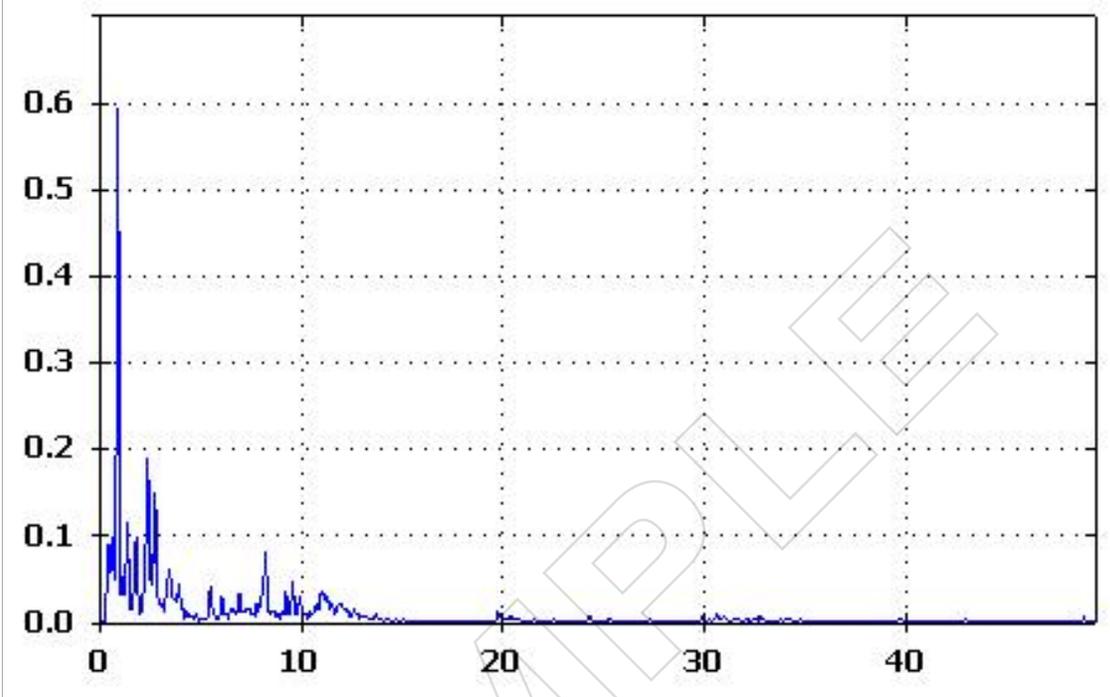
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X Axis Unit : Orders
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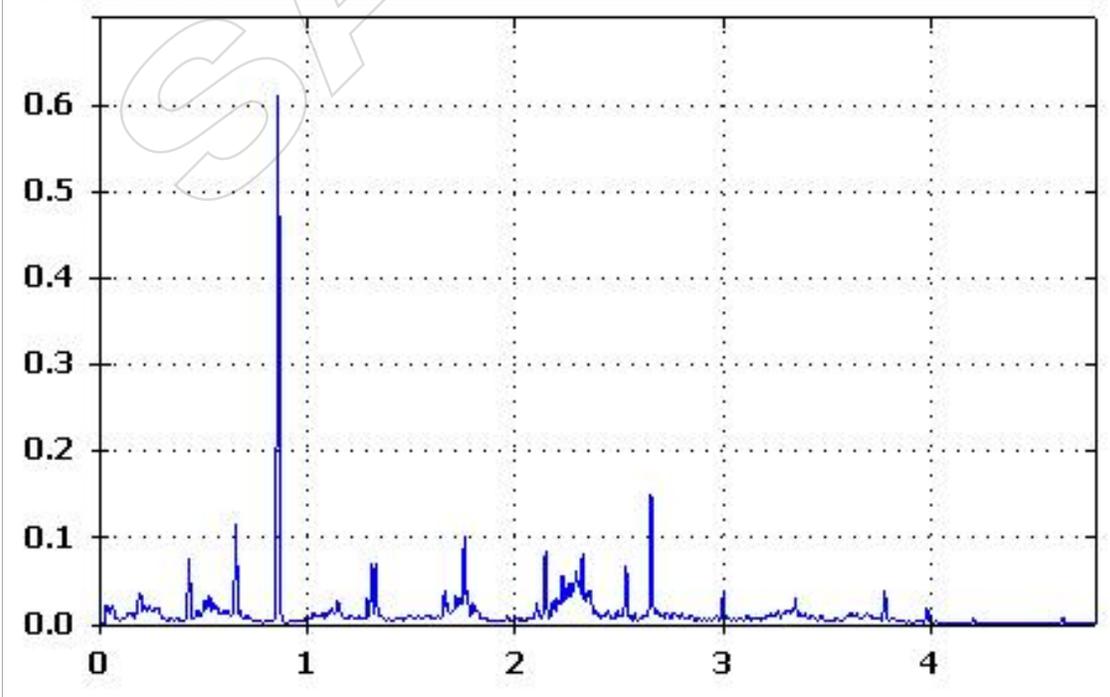
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X Axis Unit : Orders
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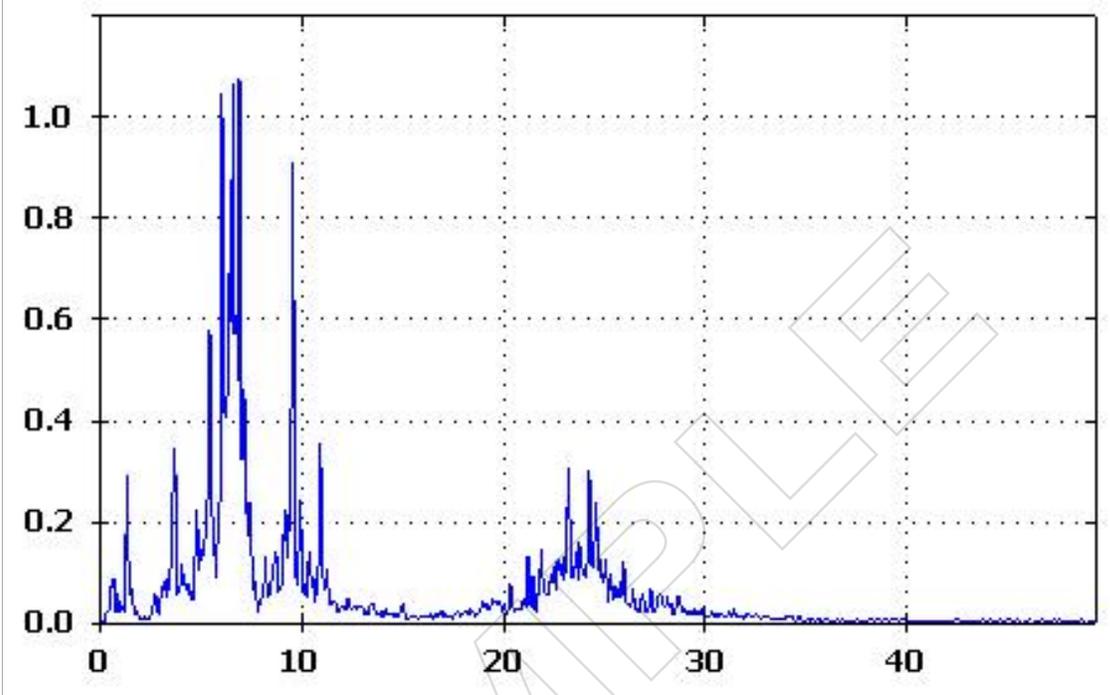
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Y Axis Unit : mm/sec



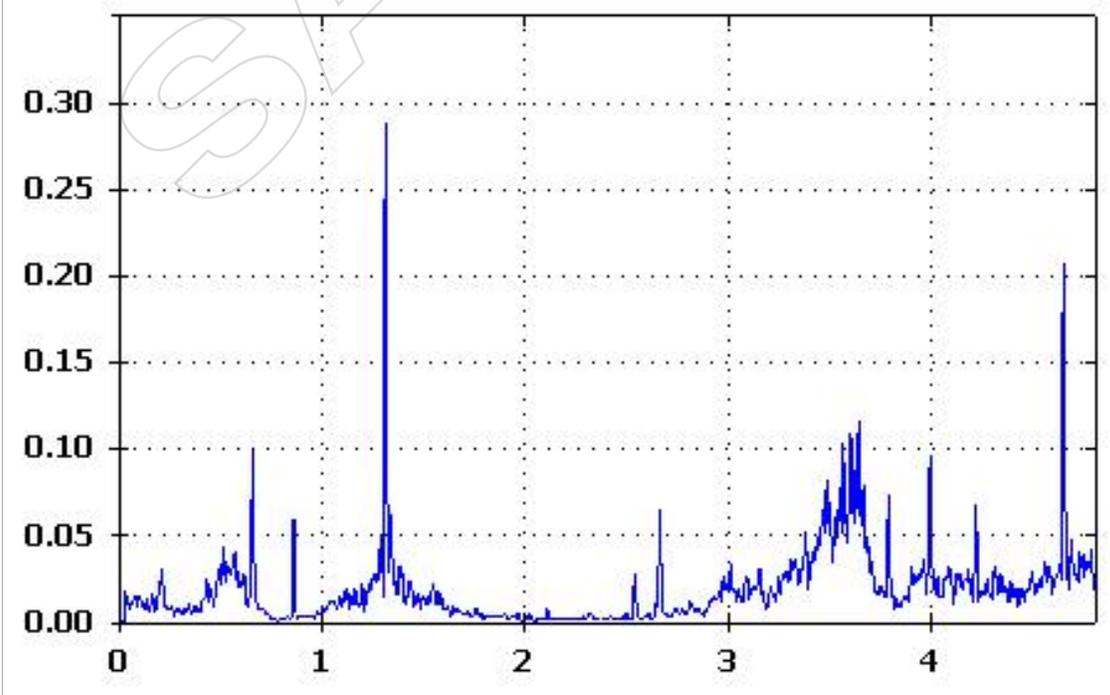
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Range : Low range
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X Axis Unit : Orders
Y Axis Unit : mm/sec



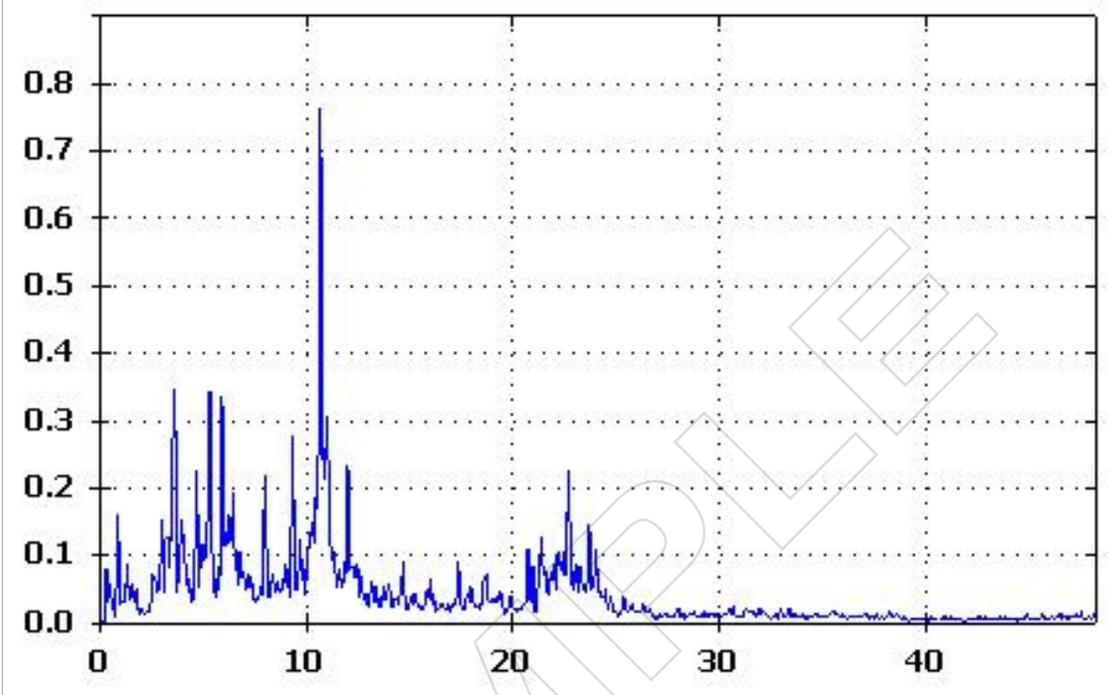
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Axis : Axial
X Axis Unit : Orders
Y Axis Unit : mm/sec



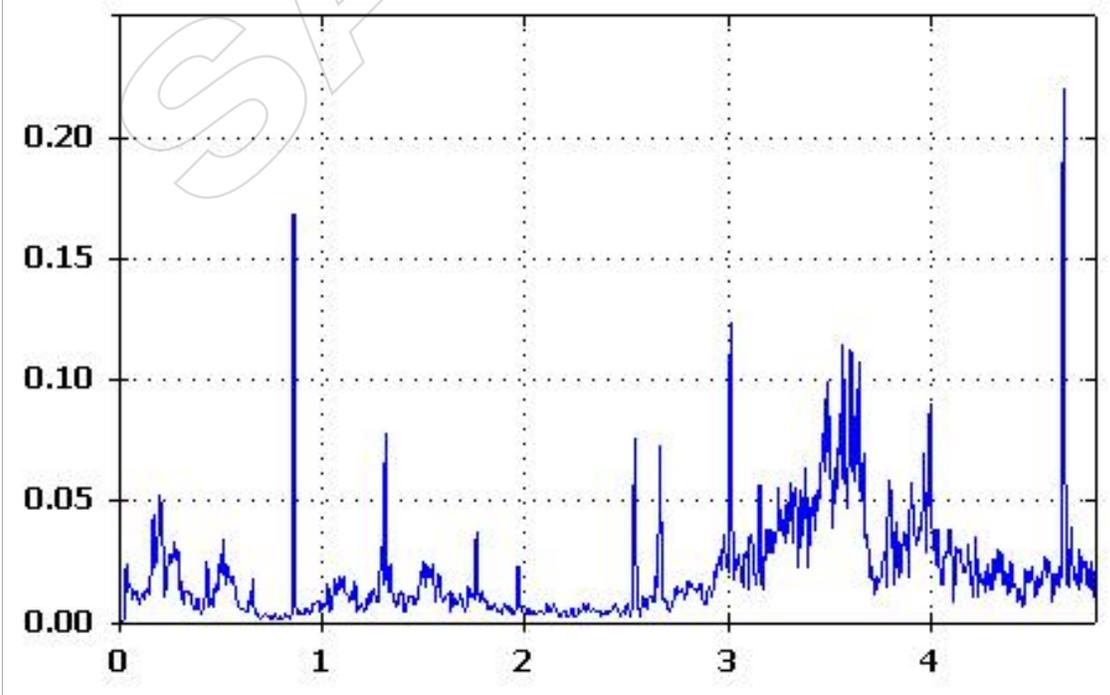
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Axis : Axial
X Axis Unit : Orders
Y Axis Unit : mm/sec



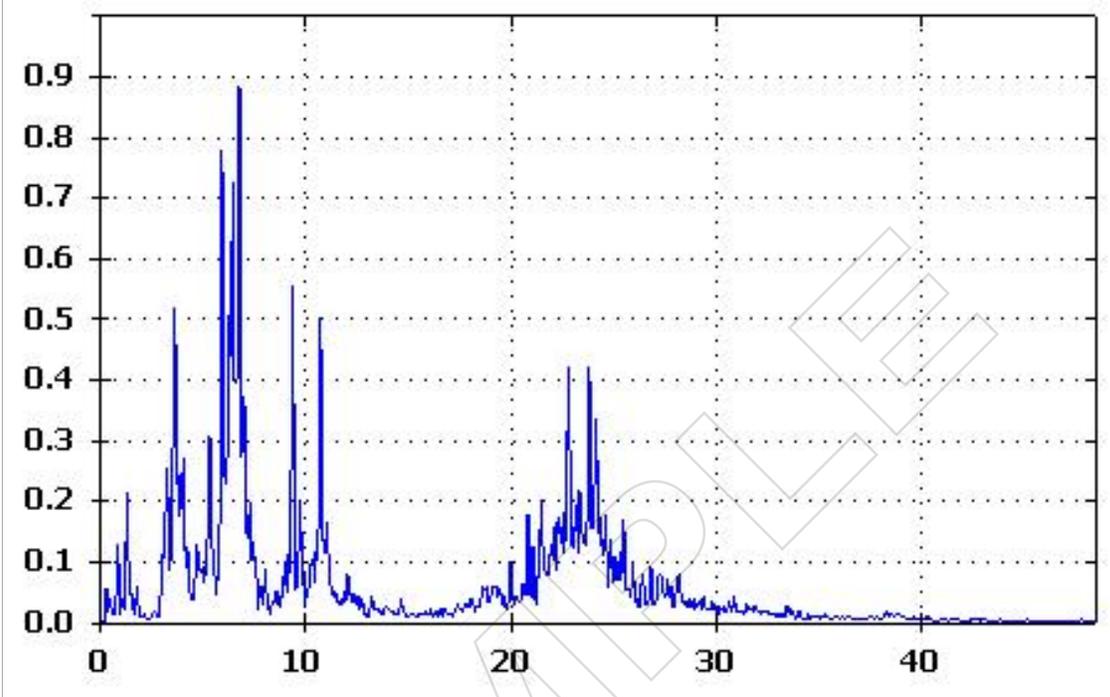
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Axis : Tangential
X Axis Unit : Orders
Y Axis Unit : mm/sec



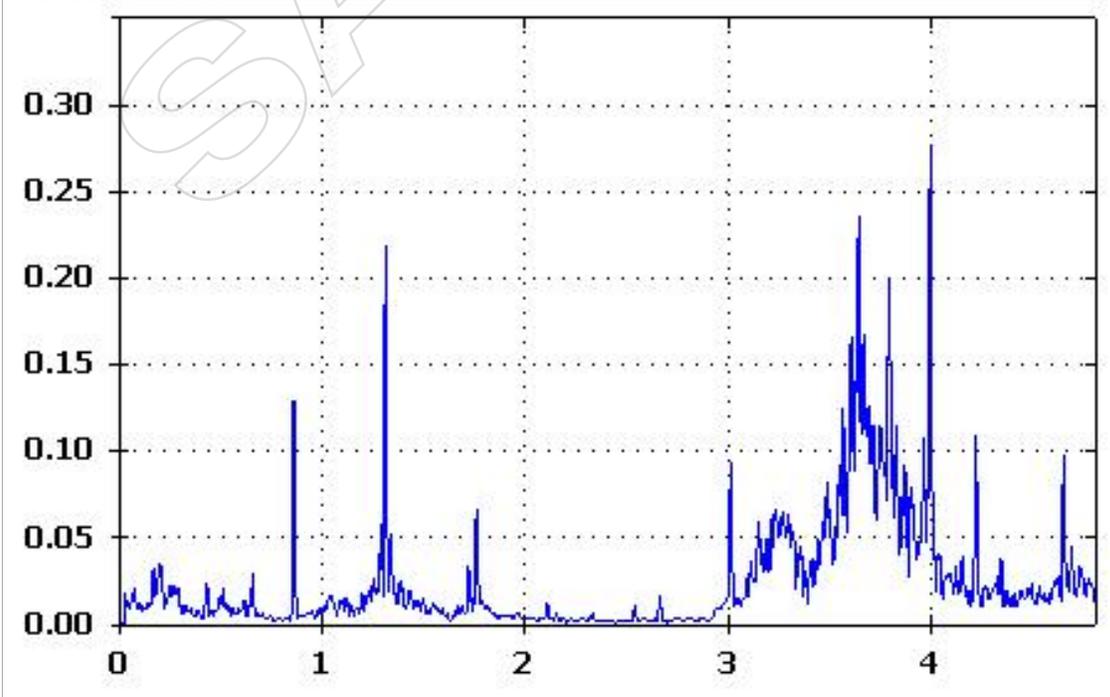
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Range : Low range
Axis : Tangential
X Axis Unit : Orders
Y Axis Unit : mm/sec



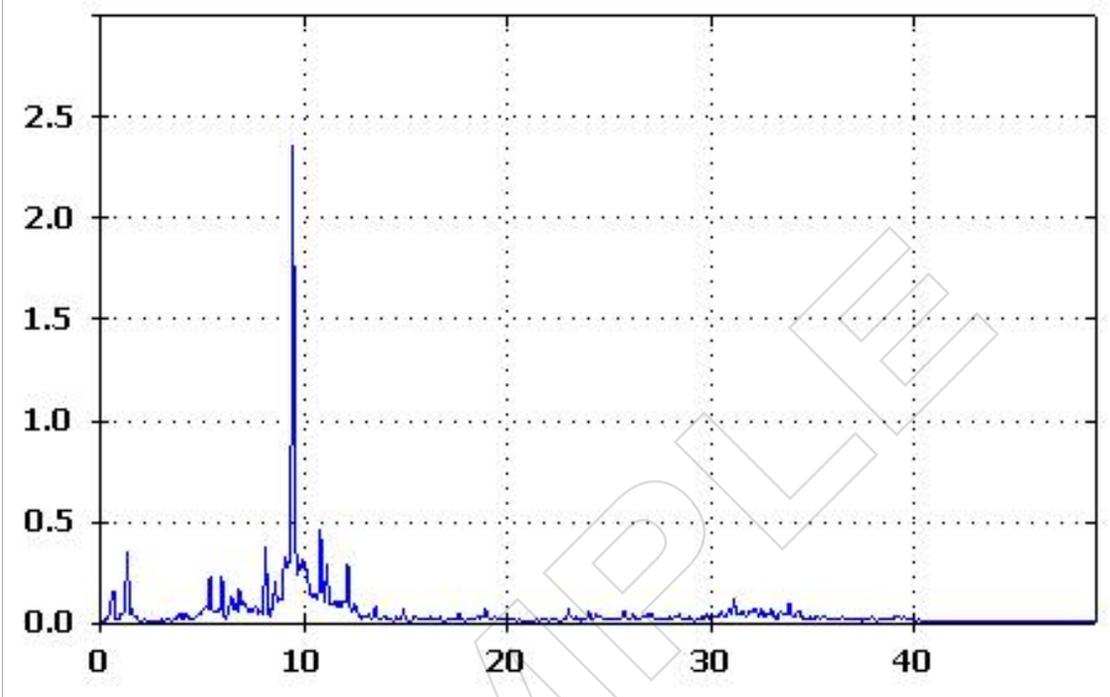
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Range : High range
Axis : Radial
X Axis Unit : Orders
Y Axis Unit : mm/sec



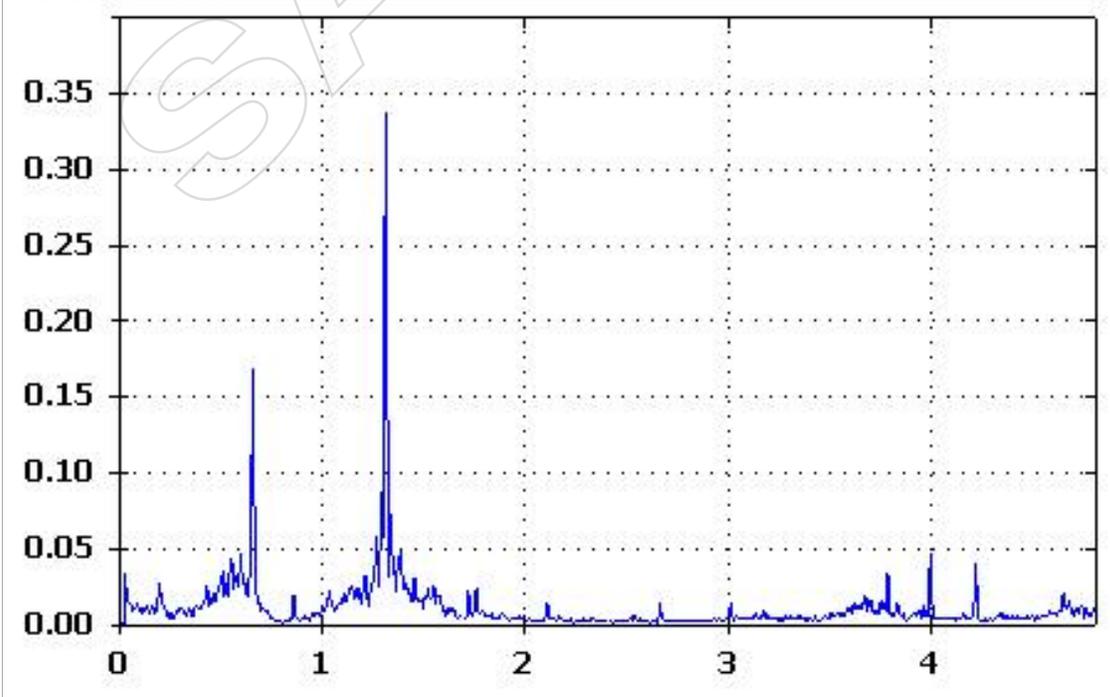
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Axis : Radial
X Axis Unit : Orders
Y Axis Unit : mm/sec



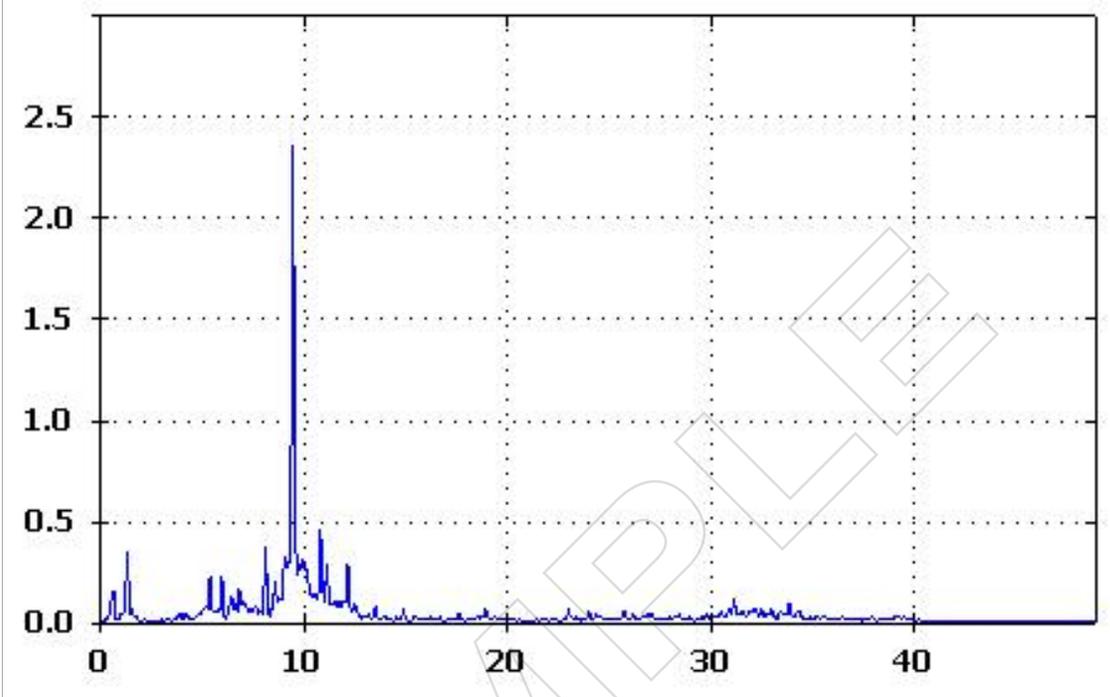
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Range : High range
Axis : Axial
X Axis Unit : Orders
Y Axis Unit : mm/sec



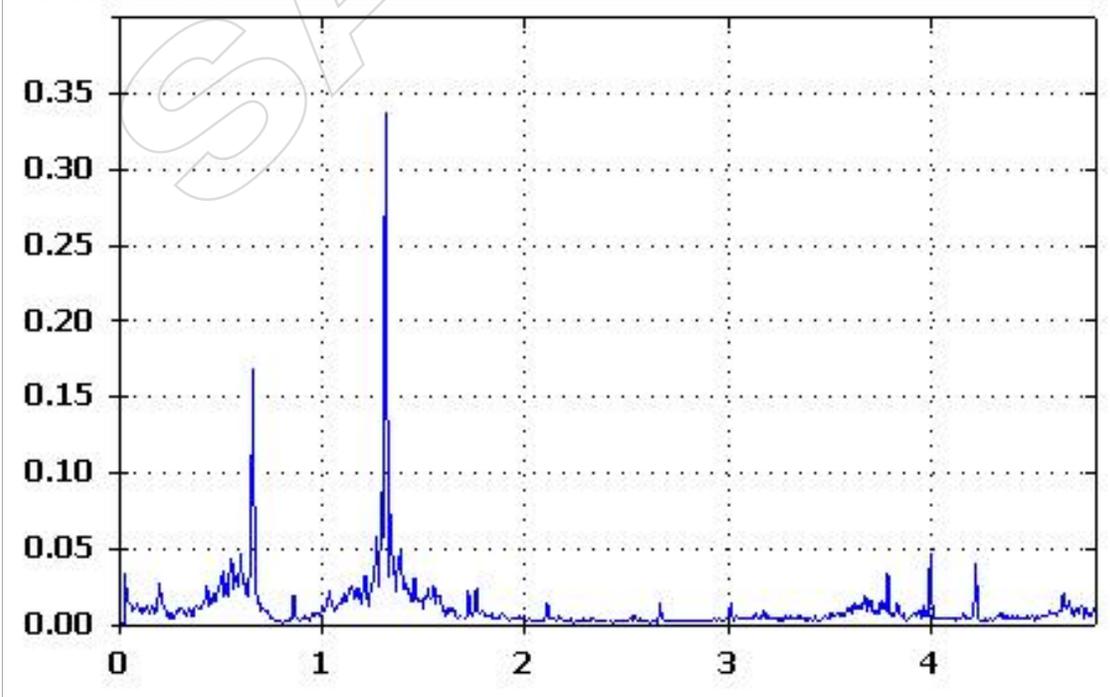
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Range : Low range
Axis : Axial
X Axis Unit : Orders
Y Axis Unit : mm/sec



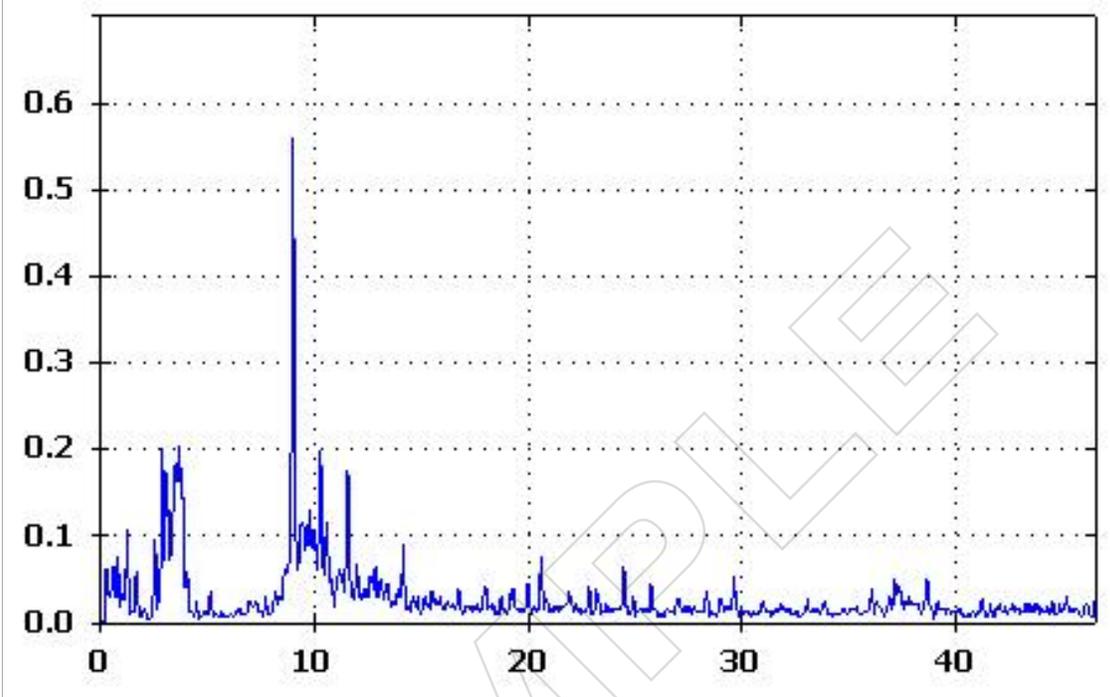
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Axis : Axial
X Axis Unit : Orders
Y Axis Unit : mm/sec



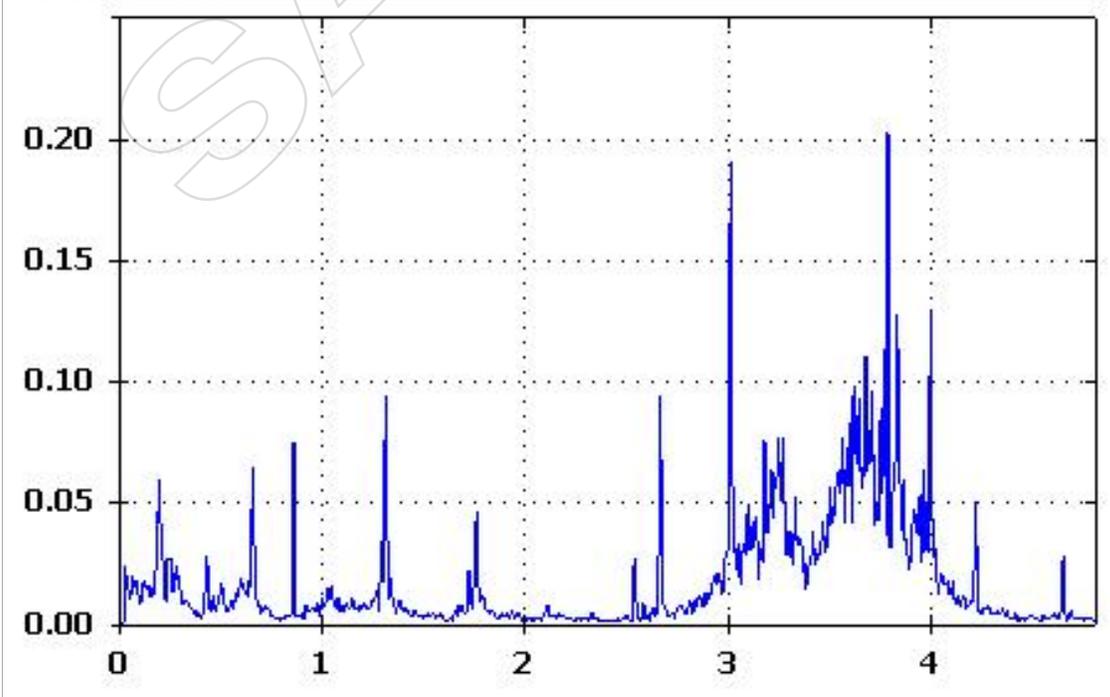
Location : Location 4
Range : Low range
Axis : Axial
X Axis Unit : Orders
Y Axis Unit : mm/sec



Location : Location 4
Range : High range
Axis : Radial
X Axis Unit : Orders
Y Axis Unit : mm/sec



Location : Location 4
Range : Low range
Axis : Radial
X Axis Unit : Orders
Y Axis Unit : mm/sec



Fault description : Pump Free End Ball Bearing Wear

Fault severity : Moderate (31)

Cited peak number	Bearing	Axis	Vibration amplitude	Order	Range
Cited peak1	Location4	Axial	2.36 mm/sec	9.48	High
Cited peak2	Location4	Tangential	1.44 mm/sec	9.31	High
Cited peak3	Location4	Axial	0.46 mm/sec	10.8	High
Cited peak4	Location4	Tangential	0.25 mm/sec	5.32	High
Cited peak5	Location4	Radial	0.20 mm/sec	3.79	Low
Cited peak6	Location4	Radial	0.20 mm/sec	10.3	High
Cited peak7	Location4	Radial	0.18 mm/sec	11.6	High

Fault description : Pump Drive End Ball Bearing Wear

Fault severity : Moderate (30)

Cited peak number	Bearing	Axis	Vibration amplitude	Order	Range
Cited peak1	Location3	Axial	1.06 mm/sec	6.57	High
Cited peak2	Location3	Axial	0.91 mm/sec	9.55	High
Cited peak3	Location3	Radial	0.88 mm/sec	6.8	High
Cited peak4	Location3	Tangential	0.76 mm/sec	10.7	High
Cited peak5	Location3	Radial	0.72 mm/sec	6.45	High
Cited peak6	Location3	Tangential	0.34 mm/sec	5.34	High
Cited peak7	Location3	Radial	0.24 mm/sec	3.65	Low

Fault description : Pump Drive End Looseness Or Bearing Clearance Problem

Fault severity : Slight (8)

Cited peak number	Bearing	Axis	Vibration amplitude	Order	Range
Cited peak1	Location3	Axial	1.08 mm/sec	7	High
Cited peak2	Location3	Axial	1.05 mm/sec	6	High
Cited peak3	Location3	Radial	0.78 mm/sec	6	High
Cited peak4	Location3	Radial	0.70 mm/sec	7	High
Cited peak5	Location3	Tangential	0.34 mm/sec	6	High
Cited peak6	Location3	Axial	0.23 mm/sec	9	High
Cited peak7	Location3	Tangential	0.22 mm/sec	4.67	Low
Cited peak8	Location3	Tangential	0.22 mm/sec	8	High
Cited peak9	Location3	Axial	0.21 mm/sec	4.67	Low

Machine Setup Details

Machine Setup Name : USCC

Setup Field	Input
Motor type	AC
AC motor with VFD	Yes
Speed in RPM	717
Nominal hp	50
Motor mounted	Horizontal
Motor has	Roller bearing
Motor detached from drive train	No
Motor close-coupled	No
Coupling between motor and next component	Yes
Next component	Pump
Driven component bearing type	Roller bearing
Pump type	Centrifugal
Impeller is supported by	Overhung
No. of pump vanes or blades [optional]	

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