

## Fluke 810 Diagnosebericht

Das Schwingungsmessgerät Fluke 810 in Verbindung mit der PC-Software Viewer erleichtert die Überwachung des Zustands von Maschinen. Mit der im Lieferumfang enthaltenen Software Viewer können Sie schnell Berichte im PDF-Format erzeugen, aus denen die Einrichtung des Antriebsstrangs und Diagnoseinformationen sowie aufgezeichnete Spektren hervorgehen. Außerdem können Sie den Bericht mit der Software anschaulicher gestalten, indem Sie Bilder der Maschinen (im .JPG- oder Fluke-eigenen .IS2-Format) in den Bericht einfügen.

Nachstehend finden Sie ein Beispiel eines Diagnoseberichts mit Daten von Fluke 810. Das tatsächliche Aussehen des Berichts hängt von den erfassten Daten und den in den Bericht eingefügten Bildern ab. Weitere Informationen siehe unter [www.fluke.com/viewer-software](http://www.fluke.com/viewer-software) oder senden Sie eine E-Mail an [vibration@fluke.com](mailto: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

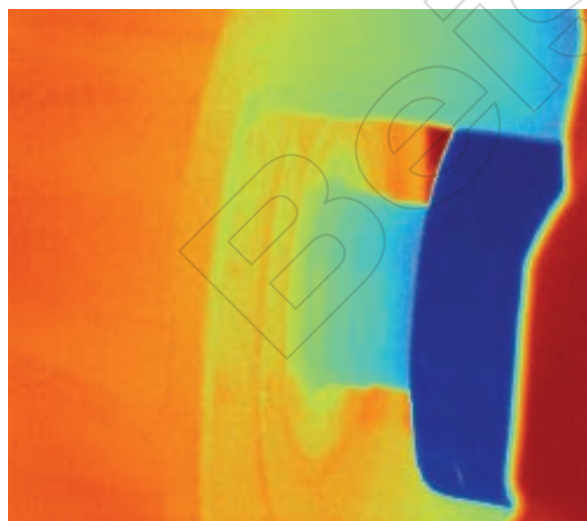
#### Drive Train



#### 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	

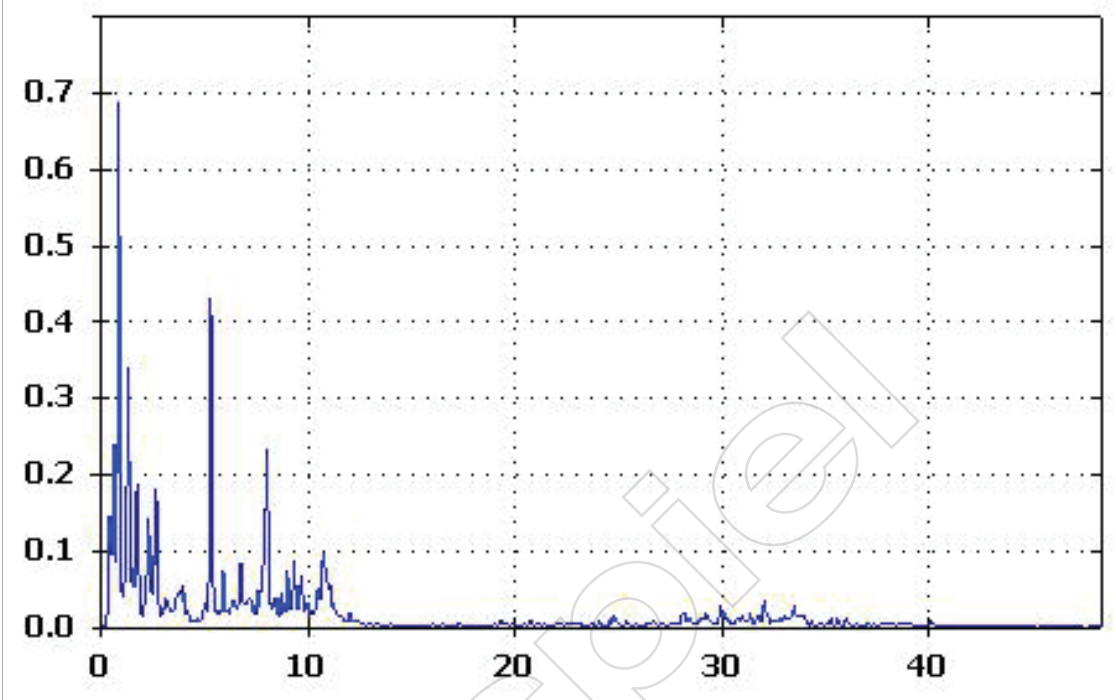
#### Image



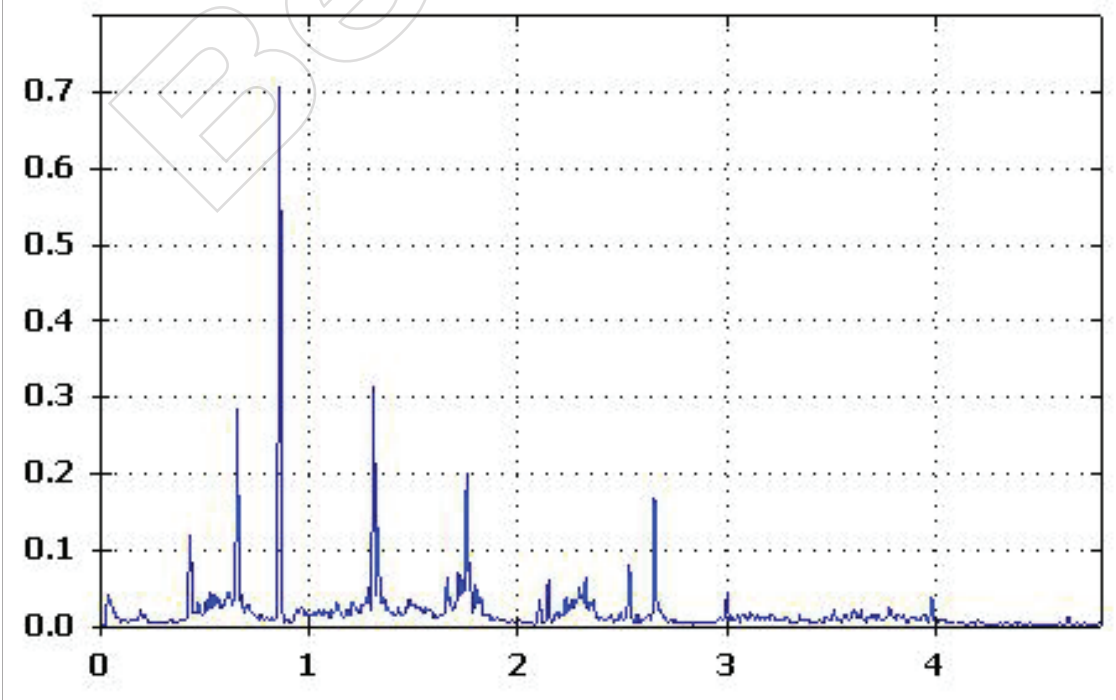
#### Recommendations

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

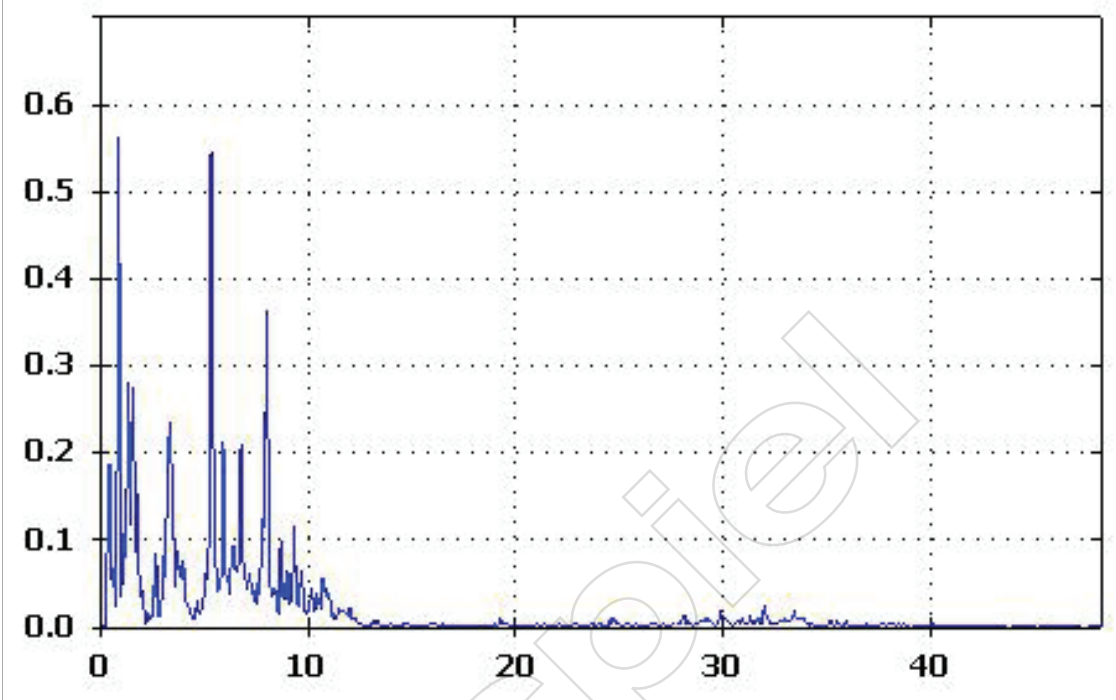
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Range : High range  
Axis : Axial  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



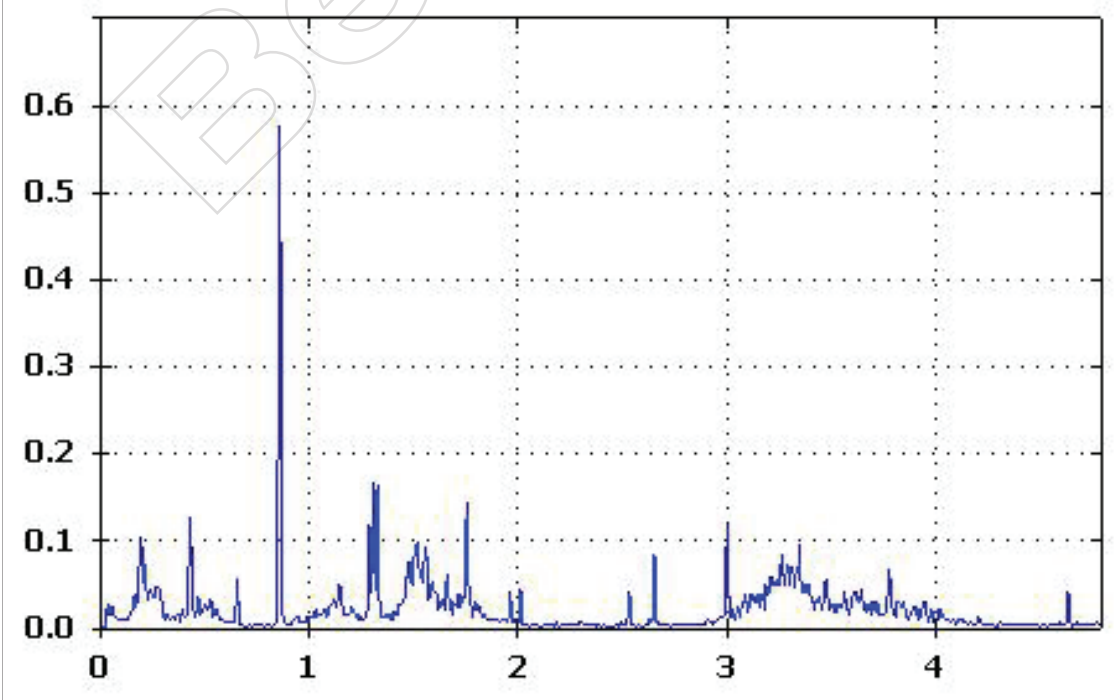
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X Axis Unit : Orders  
Y Axis Unit : mm/sec



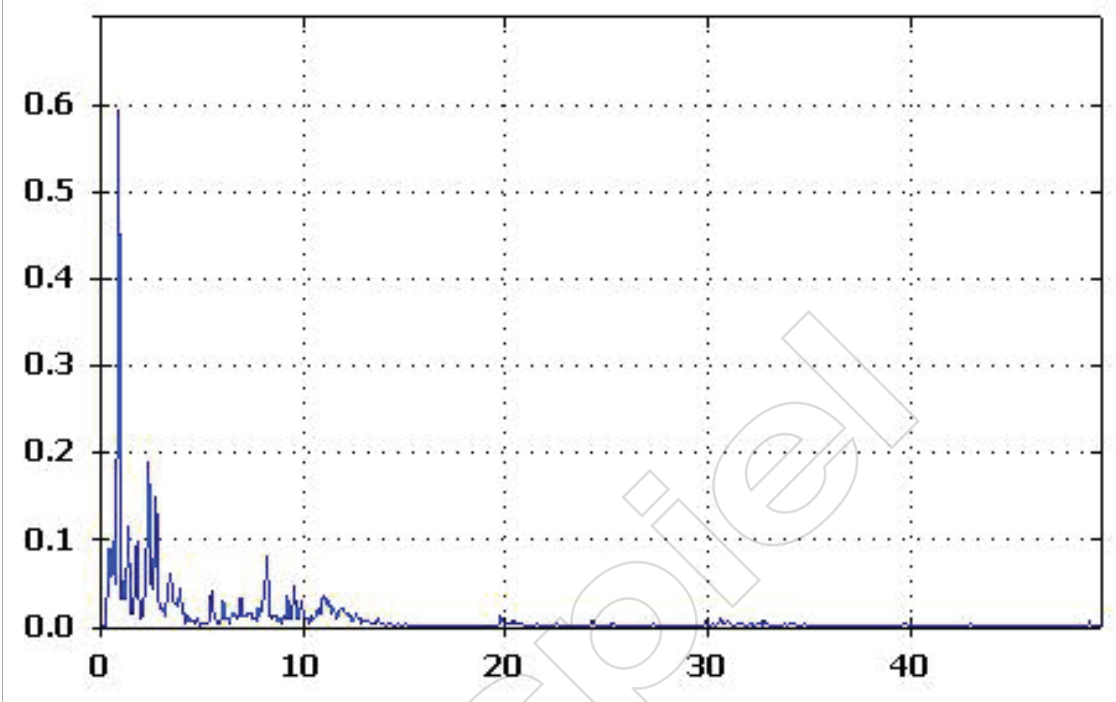
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Axis : Tangential  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



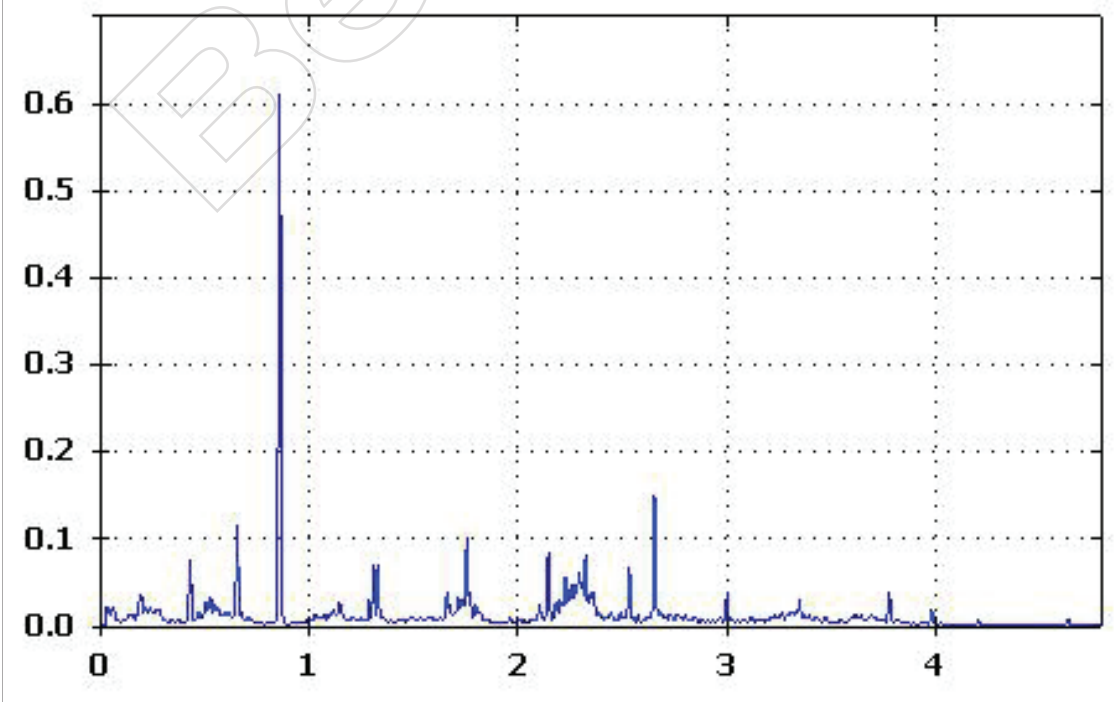
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Range : Low range  
Axis : Tangential  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



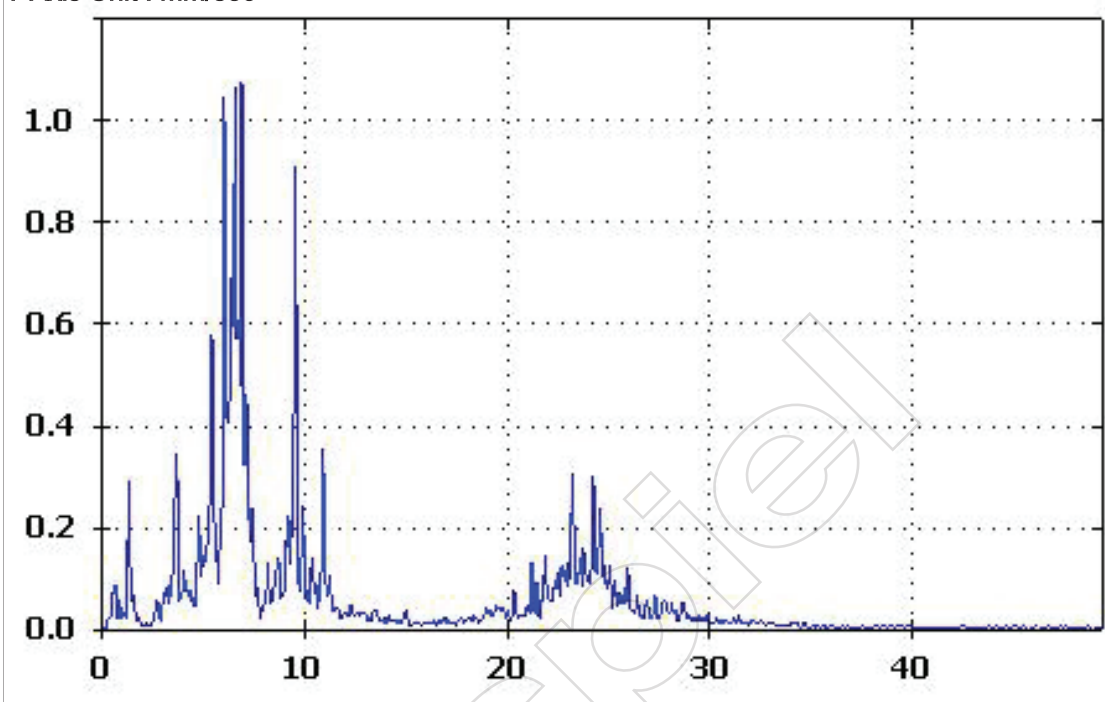
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Range : High range  
Axis : Radial  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



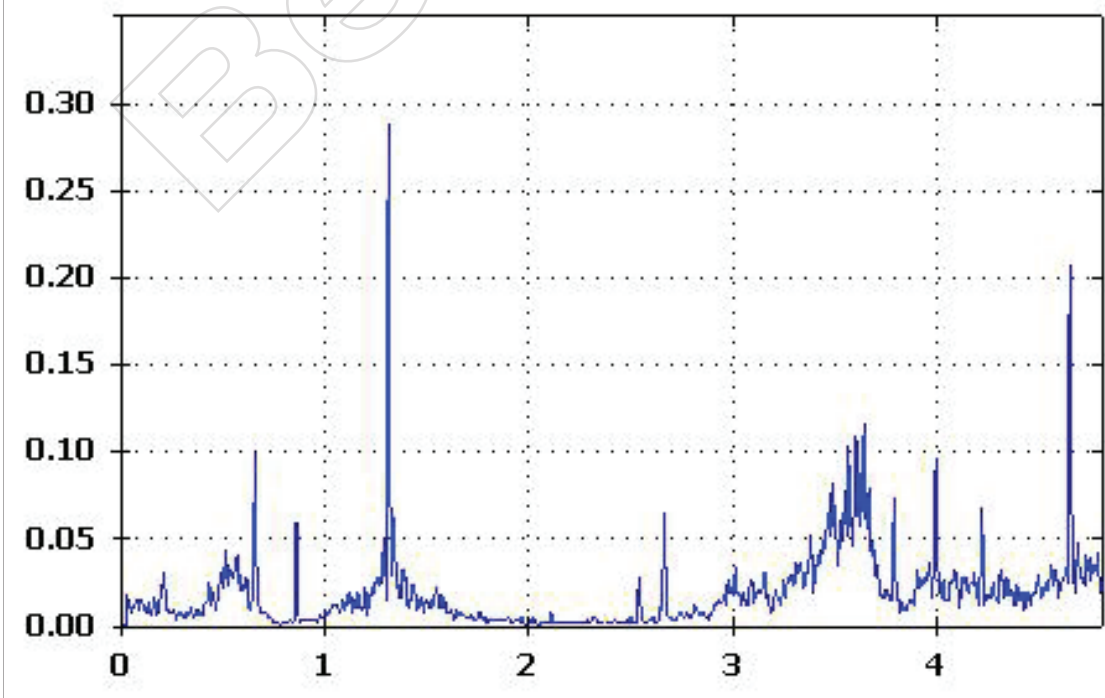
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Range : Low range  
Axis : Radial  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



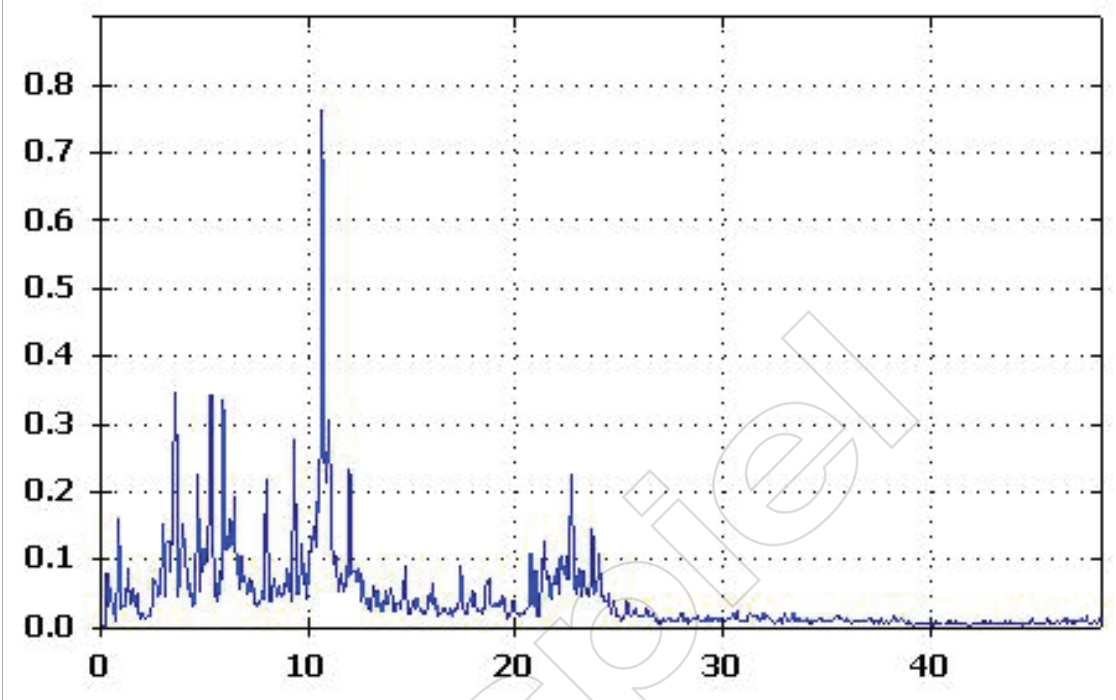
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Range : High range  
Axis : Axial  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



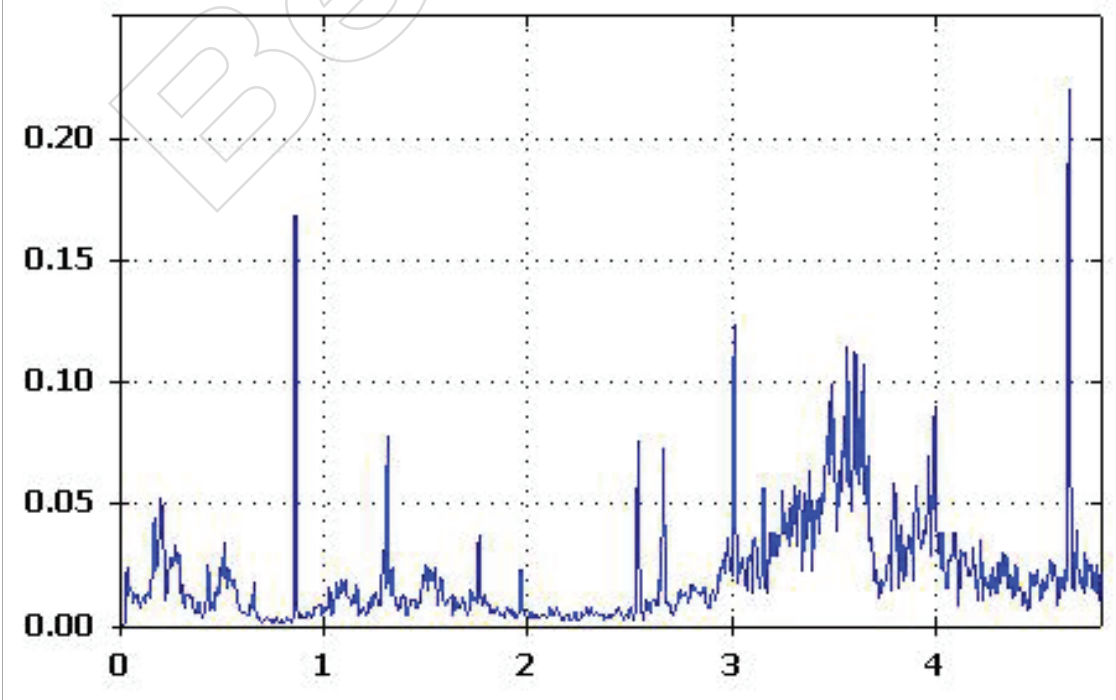
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Axis : Axial  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



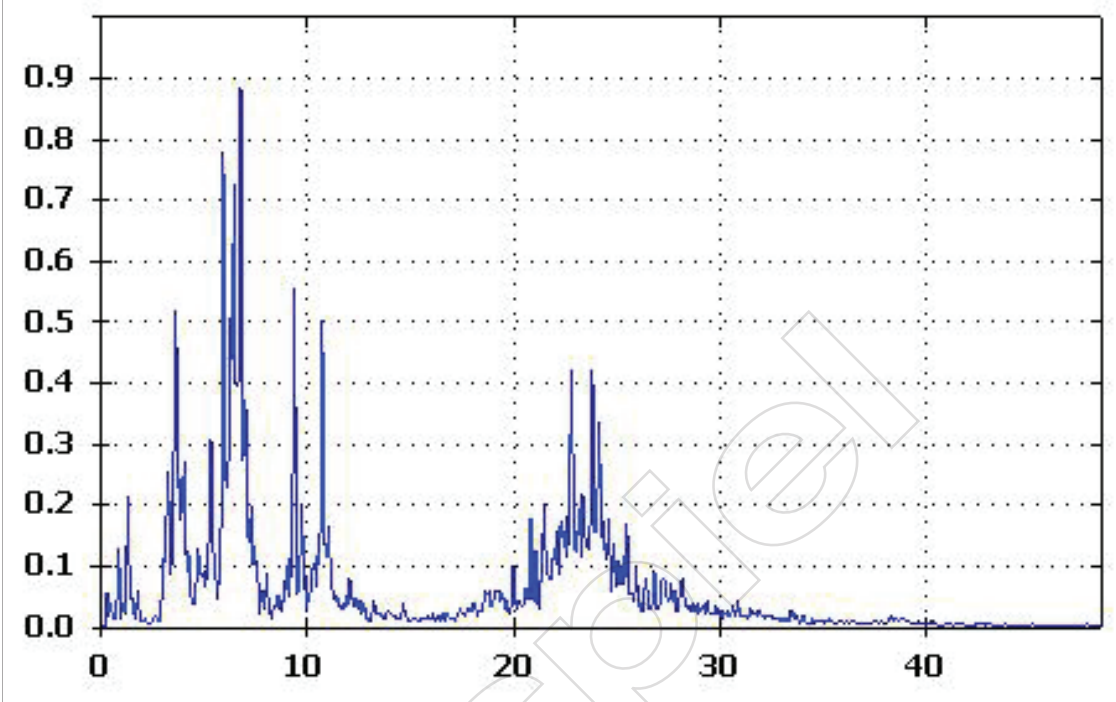
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Axis : Tangential  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



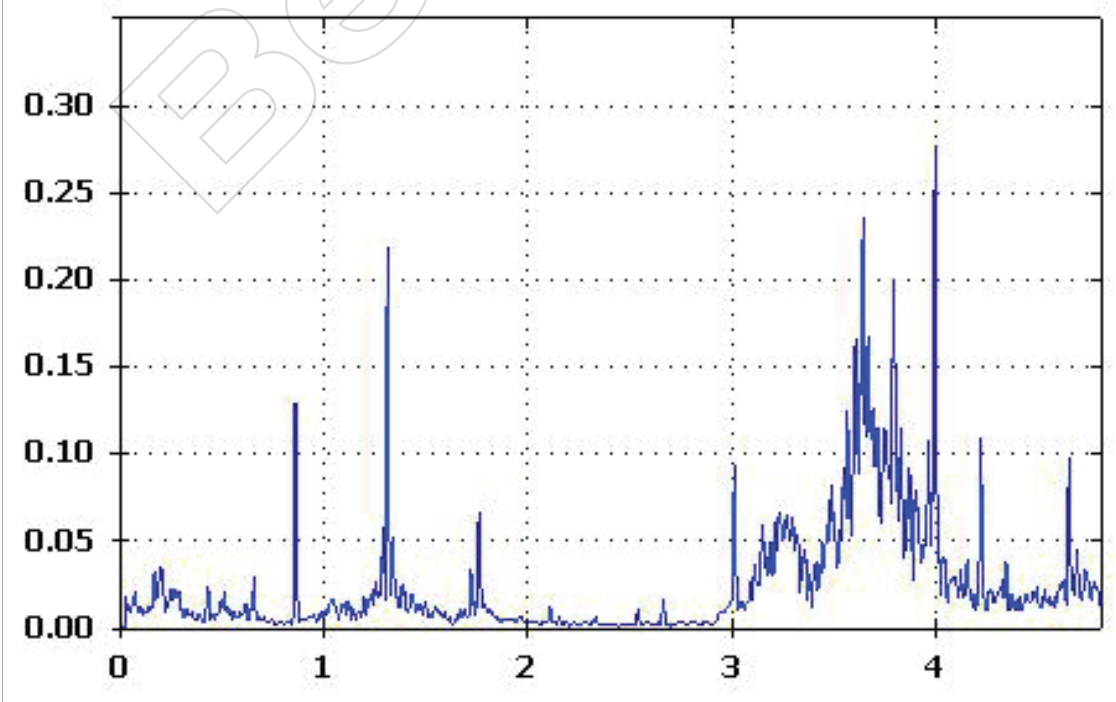
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Axis : Tangential  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



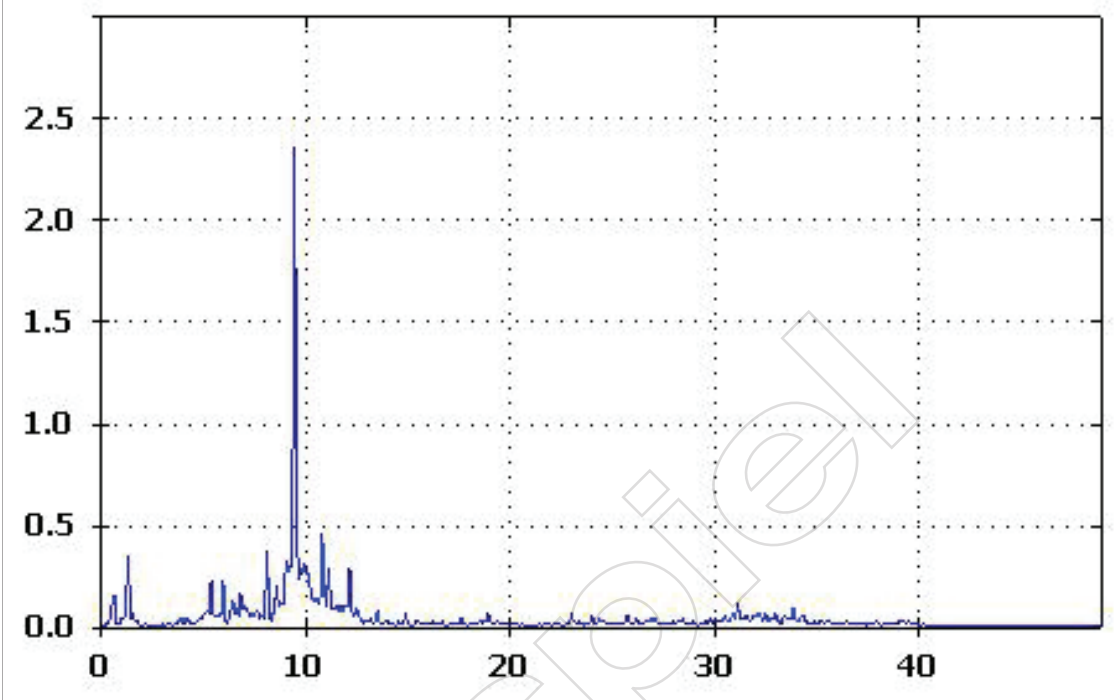
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Range : High range  
Axis : Radial  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



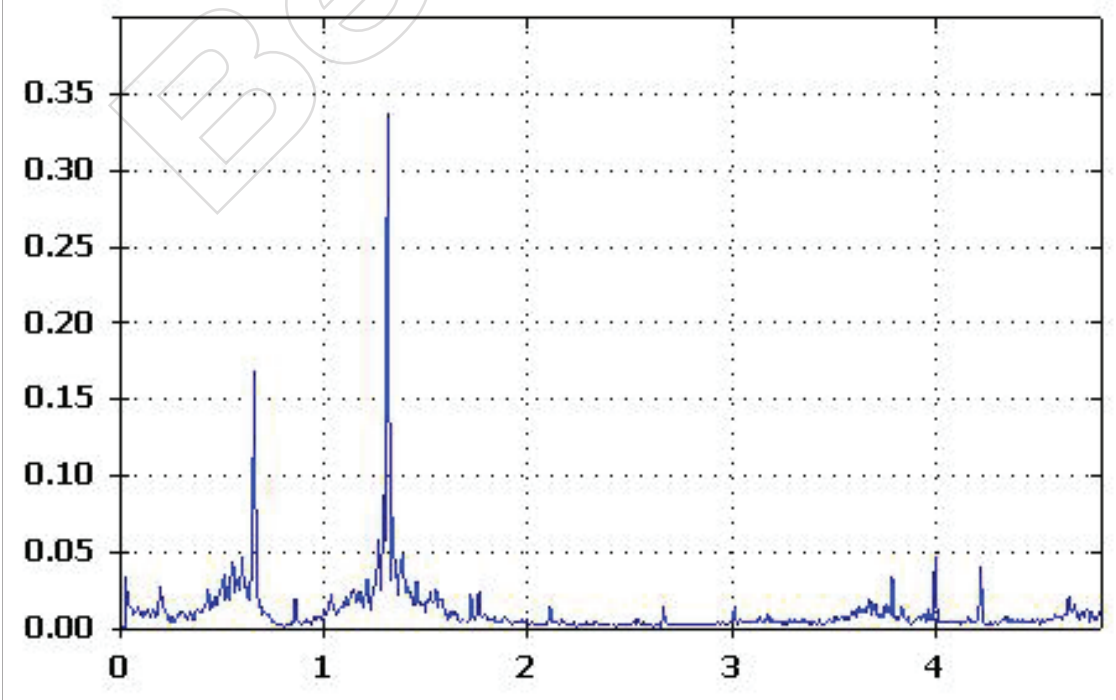
Location : Location 3  
Range : Low range  
Axis : Radial  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



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

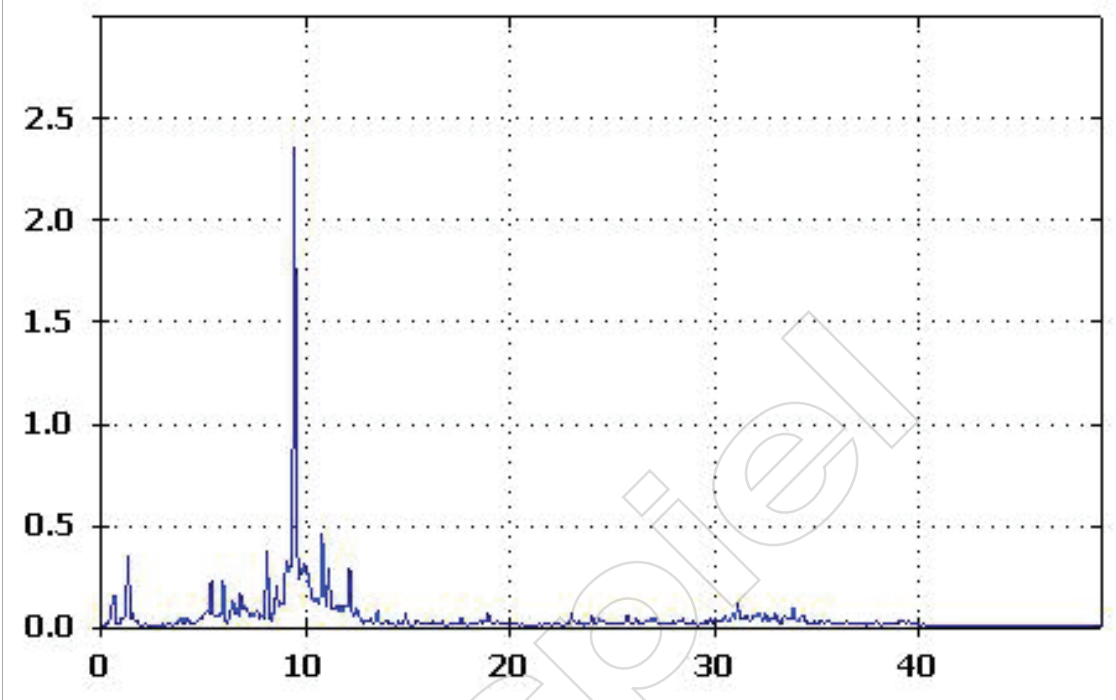


Location : Location 4  
Range : Low range  
Axis : Axial  
X Axis Unit : Orders  
Y Axis Unit : mm/sec

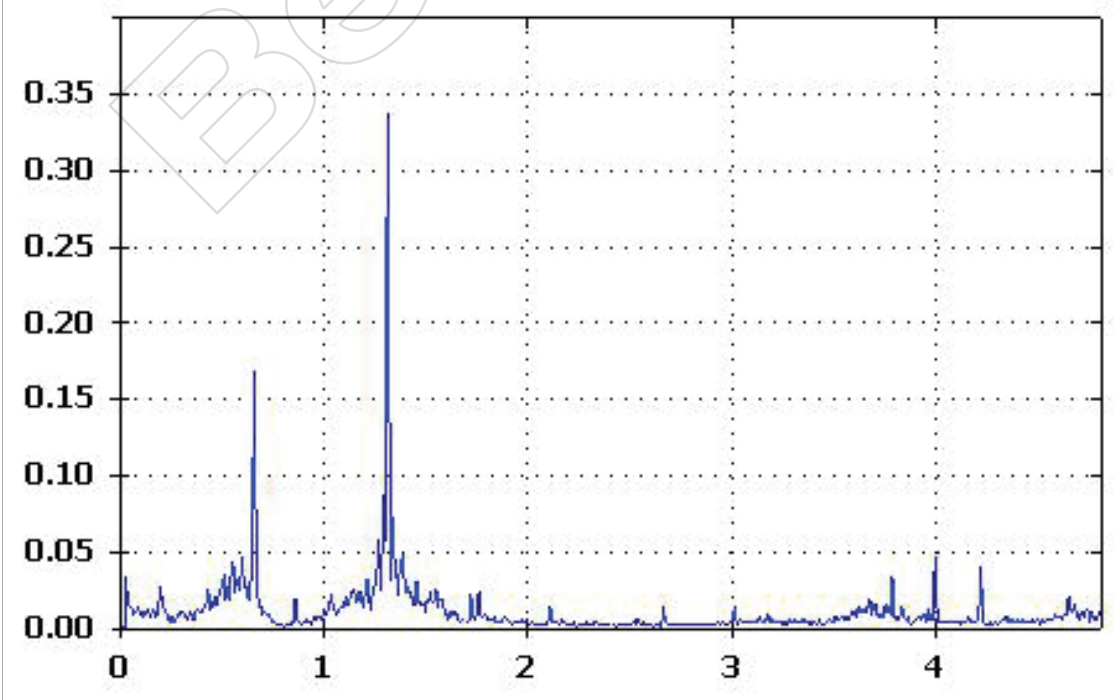




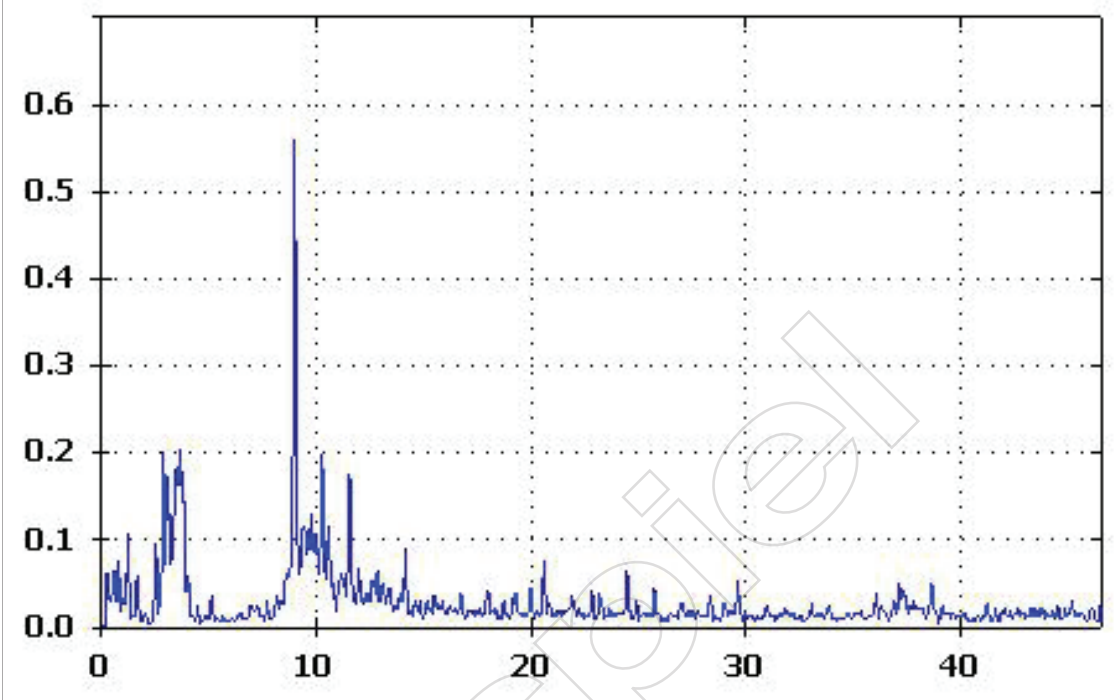
Location : Location 4  
Range : High range  
Axis : Axial  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



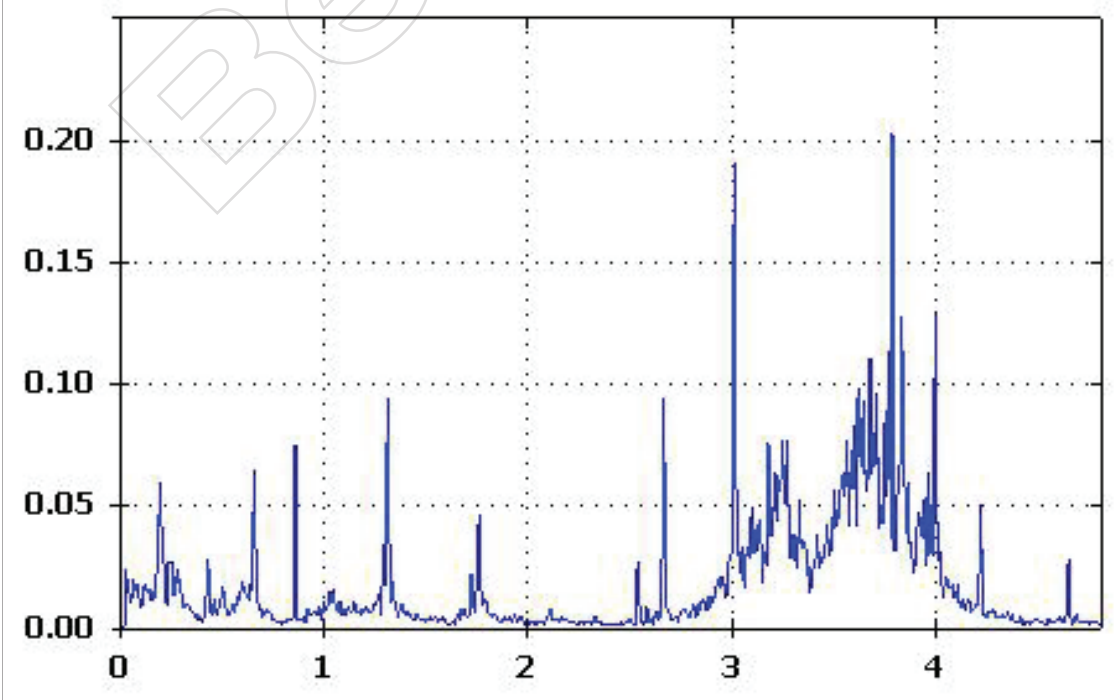
Location : Location 4  
Range : Low range  
Axis : Axial  
X Axis Unit : Orders  
Y Axis Unit : mm/sec



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]	

Nachstehend finden Sie ein Beispiel eines Diagnoseberichts auf Basis der mit Fluke 810 aufgenommenen Daten. Das tatsächliche Aussehen des Berichts hängt von den erfassten Daten und den in den Bericht eingefügten Bildern ab. Weitere Informationen siehe unter [www.fluke.com/viewer-software](http://www.fluke.com/viewer-software) oder senden Sie eine E-Mail an [vibration@fluke.com](mailto:vibration@fluke.com).

**Fluke.** *Damit Ihre Welt intakt bleibt.*

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