Vibration Tester

Answer questions to describe your machine

Create a New Machine Setup

Explanations and Diagrams

Overview

1. **Vibration Tester**
   - **Software**
   - **Connection**
   - **USB PC**

2. **MEASURE**
   - **SETUP**
   - **ENTER**
   - **MEMORY**
   - **SAVE**

3. **DIAGNOSE**
   - **SETUP**
   - **MEMORY**
   - **SAVE**

4. **Answer questions to describe your machine**

Create a New Machine Setup

Explanations and Diagrams

Overview

1. **Machine Setup Questions**
   - **Type**: Choose the type of machine setup.
   - **Sensor**: Select the sensor type.
   - **Optional**: Indicate if the setup is optional.

2. **Cable between sensor and machine component?**
   - **Yes**
   - **No**

3. **Connection**
   - **USB PC**

4. **ROLLING ELEMENT**
   - **Yes**
   - **No**

5. **Material**: Choose the material for the setup.

6. **Bearing type**: Select the bearing type.
   - **Rolling**
   - **Ball**

7. **Bearing type**: Choose the bearing type.
   - **Rolling**
   - **Ball**

8. **Bearing type**: Select the bearing type.
   - **Rolling**
   - **Ball**

9. **Bearing type**: Choose the bearing type.
   - **Rolling**
   - **Ball**

10. **Bearing type**: Select the bearing type.
    - **Rolling**
    - **Ball**

11. **Bearing type**: Select the bearing type.
    - **Rolling**
    - **Ball**

12. **Bearing type**: Select the bearing type.
    - **Rolling**
    - **Ball**

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**Vibration Tester**

**Quick Reference Guide**

**Overview**

**PN 3464999  January 2010, Rev. 2, 5/15 © 2010-2015 Fluke Corporation. All rights reserved.**

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See the Users Manual for important safety information and a complete list of warnings for this product.
### Diagnostic Report – How to read the machine condition report and when action is needed.

<table>
<thead>
<tr>
<th>Find where is the problem?</th>
<th>Find how bad is the problem?</th>
<th>Severity Score</th>
<th>Recommendation</th>
<th>Priority</th>
<th>Description Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>No recommendation</td>
<td>No action</td>
<td>0-25</td>
<td>No action</td>
<td>1</td>
<td>Immediate action is required.</td>
</tr>
<tr>
<td>No repair action</td>
<td>Schedule repair</td>
<td>26-50</td>
<td>Monitor for vibration</td>
<td>2</td>
<td>Do not repair yet</td>
</tr>
<tr>
<td>Monitor for vibration</td>
<td>Monitor for vibration</td>
<td>51-75</td>
<td>Schedule repair</td>
<td>3</td>
<td>Desirable</td>
</tr>
<tr>
<td>Schedule repair</td>
<td>Repair immediately</td>
<td>76-100</td>
<td>Repair immediately</td>
<td>4</td>
<td>Important</td>
</tr>
</tbody>
</table>

#### Find the problem?

- **Mandatory**
- **Desirable**
- **Important**
- **No action**

#### Severity Scale

- **Extreme**: 96/100
- **Serious**: 52/100
- **Moderate**: 26/100
- **Slight**: 0-25

### Machine Setup

**Machine Setup Name**: A1014 P-1201A

#### Recommendations

- Fault Description: Motor Bearing Wear, Extreme, 86/100
- Action: Replace Motor Bearings

### Machine Condition Report

**Overall Vibration**: 0.52 g (RMS)

**11xRPM**: 3630.545

**Maximum Peak**: 4.0542 mm/sec at 15.0003 on 3T in High Range

**Measurement Date/Time**: 12/10/2013 11:20:23

**Device Serial Number**: 16170026

**Pinion Damage**

- **Gearbox Input Shaft Looseness**
- **Fault Description**: Looseness
- **Severity**: Moderate
- **Severity Score**: 30/100

**Motor Drive End Bearing Wear**

- **Fault Description**: Wear
- **Severity**: Moderate
- **Severity Score**: 30/100

**Motor Free End Bearing Wear**

- **Fault Description**: Wear
- **Severity**: Moderate
- **Severity Score**: 30/100

**Gearbox Ball Bearing Wear**

- **Fault Description**: Wear
- **Severity**: Serious
- **Severity Score**: 55/100

### Other Machine Types

- **Compressors (Piston, Centrifugal, Screw)**
- **Rotory Thread/Gear/Lobe**
- **Pumps (Centrifugal, Piston, Sliding Vane, Propeller, Screw, Gearboxes and couplings)**
- **Fans and blowers**
- **Motors (AC/DC)**

### Sample Recommendations

- **Generate work order**, Replace Motor Bearings

### Troubleshooting Tips

- **Fluke Connect™ Enabled 810 FC**
- **Diagnose**: Review, report, and make recommendations
- **Check setup**
- **Check validity using Viewer software**
- **Check machine setup – Is it correct?**

### Additional Information

- **Sensor Location Numbering**
- **Motor Pump Motor and orientation**

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**Note**: The provided content is a summary of a diagnostic report and some troubleshooting tips. For detailed analysis and recommendations, the full report should be consulted.