

BearingLifeGuard® MDA 400

Portable handheld computer terminal.

- It's not how fast you collect spectral data!
- It's how fast you get answers!

BearingLifeGuard® MDA 400 Portable handheld computer terminal.

BearingLifeGuard gets you
actionable maintenance and
financial information 'Fast'.



BearingLifeGuardtm

Step #1
Click on

Perform Measurement

Quit

DMC-CT

Dynamic Measurement Consultants, LLC

Hamden, CT USA

US Patent # 6,763,312 B1

MDA 400 PDA Data Collection Screen

User Input Fields

Assembly ID

111222333

Scan barcode

RPM

Normal (600-7200)

Select RPM range
<600 * , >600

of Data Sets

3

Select # data sets to
average. (1 to 10)

Collect Data

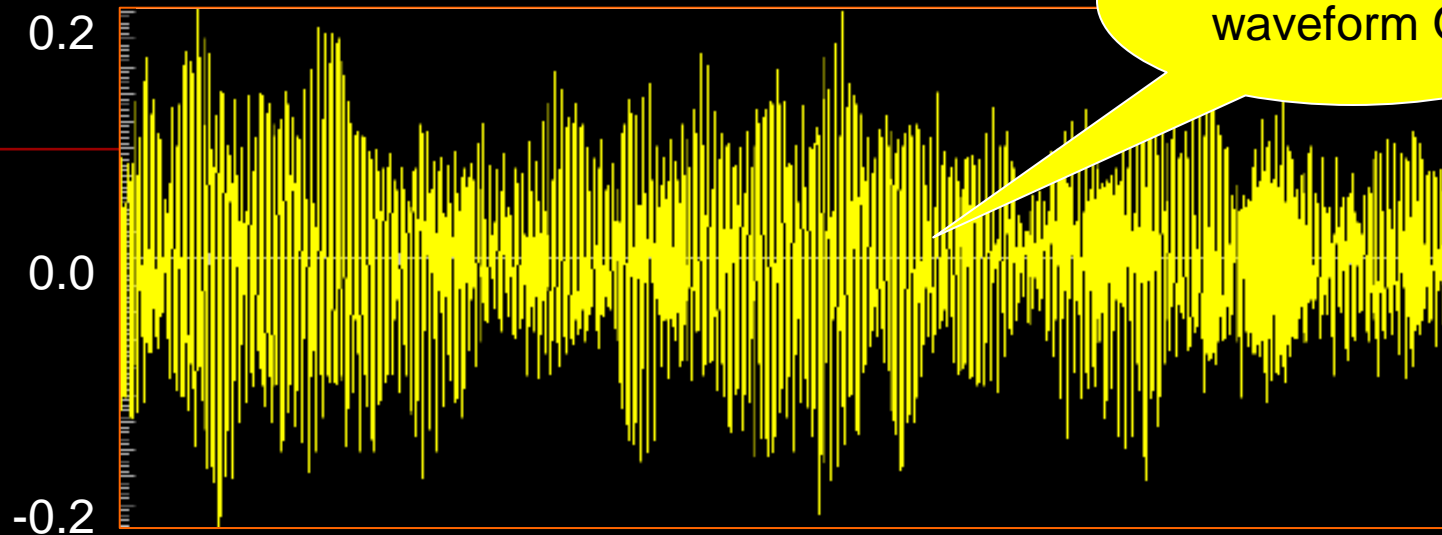
Step #2
COLLECT

Finish

* <600 RPM requires
500mv/g sensor

Enter Barcode ID –Select # Samples- Collect

Vibration Level (g)



Quickly check waveform Ok

0.0

0.2 secs

Process This Data



STEP #3

Collect Again

PROCESS

SKIP

Check signal -If OK - Select Process

MDA 400 data collection.

Simple as 1,2,3.....Cuts collection time by 50-80%

- **Done!**
- Time elapsed less than 5 seconds!
- Collection time for 60 points \approx 5 minutes!
- 500/1000 point capacity.
- Upload for processing to your PC.
- ...and get this report:



Bearing LifeGuard[®] -Information Screen:

Step-5 YOU GET ANSWERS! NOT SPECTRA!

Timestamp = 11/21/2006 12:55:35 PM

Forecast period (days) RPM

Estimated MTTF (hours)

Estimated Life (hours)

Probability of Failure in
forecast period

Short term Probability
(14 day)

**Bearing service
recommended**

Risk Estimate CoAF

Factors Discriminants MTTF

With BLG Rpt program: Generate BearingLifeGuard Reports

- Machinery Condition
- Machines in Alarm Status
- Work orders
- Reliability Trends
- Financial Trends

Bearing LifeGuard[®] Machine Condition Report

Date: 1/5/2009 9:12:39 AM

Optimum

Degraded

Take Action

Near Failure

XYZ Corp.

Lab

Test Motor 3.0v

<i>Sensor: 1</i>	<i>Prob. of Failure</i>	<i>Bearing Life</i>	<i>Balance/Align</i>
<i>1/12/2008 12:01:37 PM</i>	63.2	10.0	8.8
		<i>Risk Exceeds Repair Cost</i>	
<i>1/12/2008 11:59:31 AM</i>	63.2	10.0	8.8
		<i>Risk Exceeds Repair Cost</i>	
<i>1/12/2008 11:57:35 AM</i>	63.2	10.0	8.8
		<i>Risk Exceeds Repair Cost</i>	

Bearing LifeGuard[®] Machine Alarm Status Report

Date: 1/5/2009 9:15:32 AM

XYZ Corp.

1

BIG MOTOR

<i>Latest Test Date</i>	<i>Location</i>	<i>Status</i>
5/2/2008 7:34:08 PM	FRONT BEARING	Risk Exceeds Repair Cost

Building 1

Conside of Drive

<i>Latest Test Date</i>	<i>Location</i>	<i>Status</i>
6/6/2008 3:07:26 PM	1	Check LF, Balance, Alignment

Lab

Test Motor 2.0v

<i>Latest Test Date</i>	<i>Location</i>	<i>Status</i>
4/24/2008 5:23:48 PM	1	Risk Exceeds Repair Cost
11/12/2007 6:26:12 A	1	Check LF, Balance, Alignment

Test Motor 3.0v

<i>Latest Test Date</i>	<i>Location</i>	<i>Status</i>
1/12/2008 12:01:37 PM	1	Risk Exceeds Repair Cost

Test Motor 7.0v

<i>Latest Test Date</i>	<i>Location</i>	<i>Status</i>
2/9/2008 12:58:20 PM	1	Risk Exceeds Repair Cost

Bearing LifeGuard

Machine Work Orders

1/5/2009 9:06:03 AM

XYZ Corp.



Lab

Test Motor 2.0v

Assembly ID: BALDOR DRIVE 3A

Sensor: 1

Latest Test Date: 4/24/2008 5:23:48 PM

Check assembly for causes of unbalance/misalignment.

Latest Test Date: 4/24/2008 5:22:56 PM

Check assembly for causes of unbalance/misalignment.

Latest Test Date: 4/24/2008 5:20:13 PM

Check assembly for causes of unbalance/misalignment.

Latest Test Date: 4/24/2008 4:41:10 PM

Check assembly for causes of unbalance/misalignment.

Latest Test Date: 4/24/2008 4:29:15 PM

Check assembly for causes of unbalance/misalignment.

Latest Test Date: 4/24/2008 4:28:04 PM

Check assembly for causes of unbalance/misalignment.

Latest Test Date: 11/12/2007 6:26:12 AM

Check assembly for causes of unbalance/misalignment.

Test Motor 3.0v

Assembly ID: BEARING 1

Sensor: 1

Latest Test Date: 1/12/2008 12:01:37 PM

Inspect bearings for lube/wear. Replace as necessary.

Test Motor 7.0v

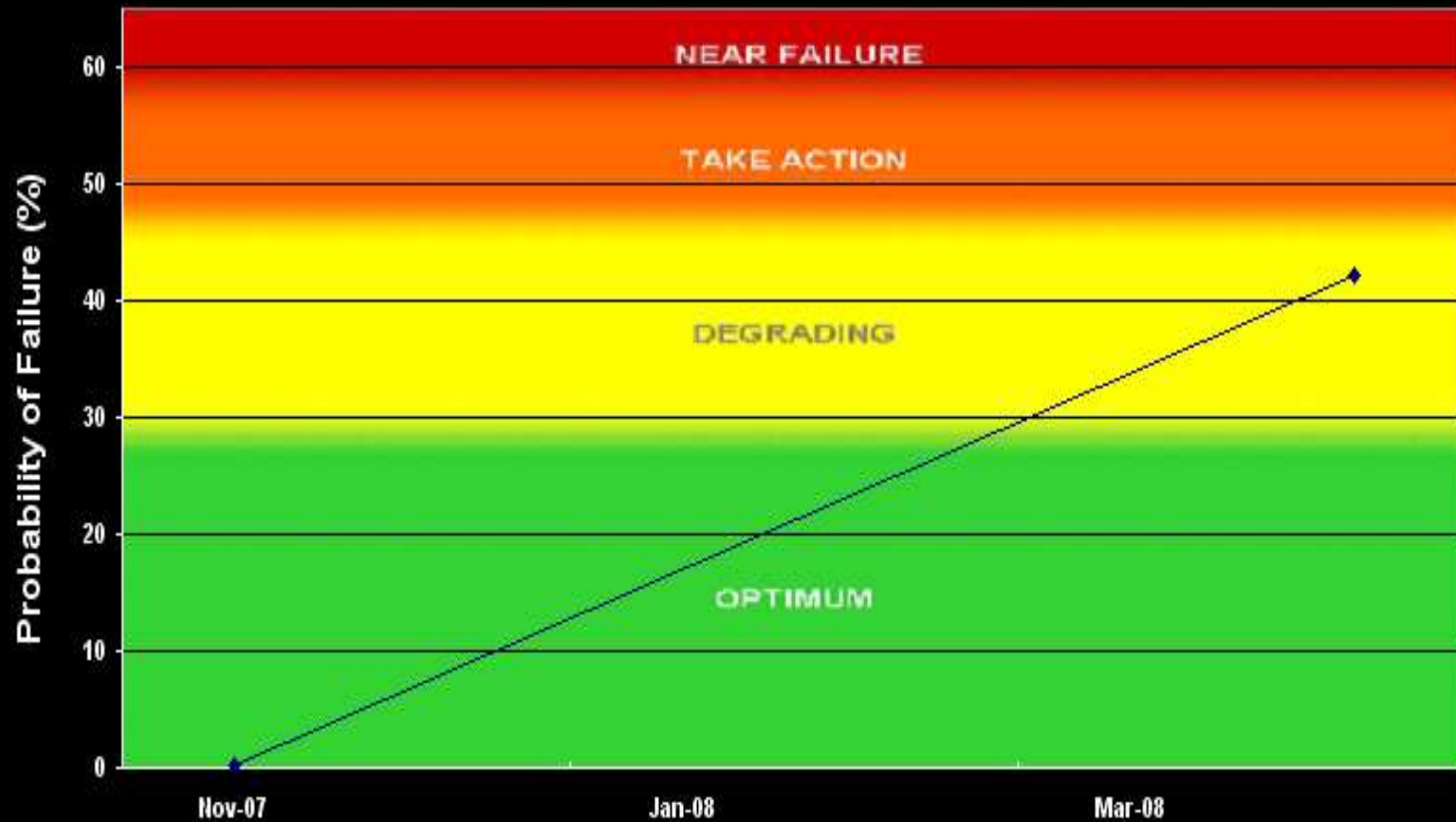
Assembly ID: 5

Sensor: 1

Latest Test Date: 2/9/2008 12:58:20 PM

Inspect bearings for lube/wear. Replace as necessary.

Reliability Trend Test Motor 2.0v

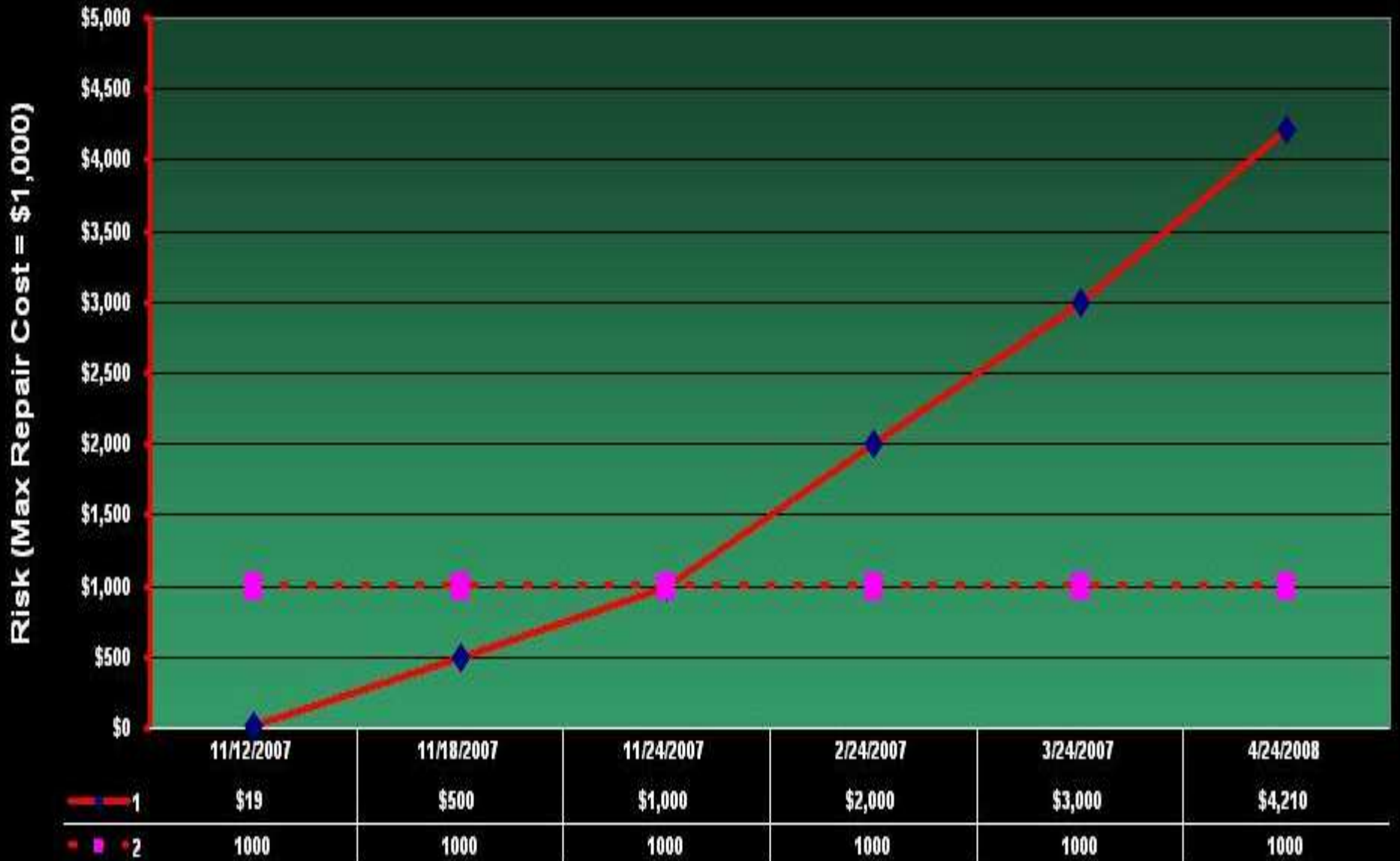


11/12/2007
0.2 Optimum

4/24/2008
42% Degrading

1

Financial Risk vs. Max Repair Cost Test Motor 2.0v



BearingLifeGuardtm

Learn how you can put this technology to work in
your program?

Contact Sales@bearinglifeguard.com

DMC-CT

Dynamic Measurement Consultants, LLC

Hamden, CT USA

US Patent # 6,763,312 B1 other patents pending. Copy
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