



# VALORAZ

PRODUCTS



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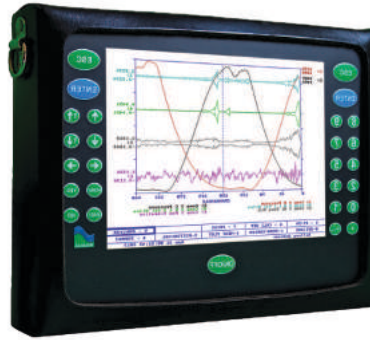
**Turning Data into Performance**

A DOVER COMPANY

**YOUR COMPLETE RESOURCE FOR RECIPROCATING MACHINERY MONITORING & DIAGNOSTICS**

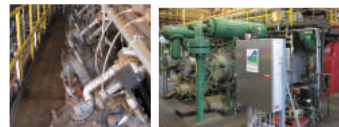
**PORTABLE ANALYZERS**

- Model 6320
- Model 6320/PA/VA
- Model 6320/PA
- Model 6320/MA
- Model 6320/DA
- Model 6320/VA
- Model 6320/CA
- E-Probe



**ONLINE MONITORING SYSTEMS**

- AutoBalance
- On-Guard Products
  - C-Guard
  - HP-Guard
  - E-Guard
  - P-Guard
  - V-Guard

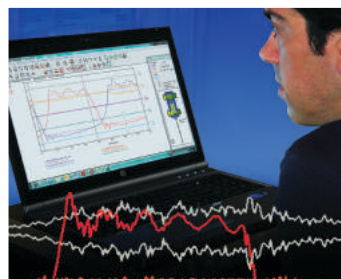


**MACHINERY HEALTH MONITORING & ASSET MANAGEMENT SYSTEMS**

- M-Health
- M-Logr

**TECHNICAL SERVICES**

**TRAINING**



**Detectable Malfunctions Using the 6320/PA**

**Engine**

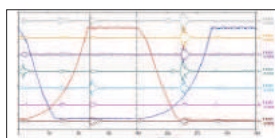
- Ignition System Deficiencies
- Peak Firing Pressure Imbalance
- Defective Fuel Injectors & Valves
- Leaking Valves and Rings
- Worn or Scored Liners
- Intake/Exhaust Port or Bridge Wear
- Worn or Defective Valve Train Components
- Damaged Connecting Rod & Wrist Pins
- Damaged Bearings
- Turbocharger Defects
- Jacket Water & Lube Oil Pump Faults
- Excessive Frame Vibration
- Foundation or Grout Damage
- Low Horsepower Output
- Poor Fuel Consumption
- Excessive Exhaust Emission Factors

**Compressor**

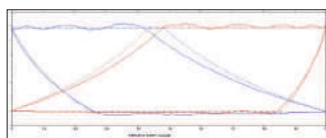
- Mechanical Looseness Piston & Nut Cross Head Pin & Bushing
- Leaking Valves & Rings
- Cylinder & Piping Pulsations
- Passage Flow Restrictions
- Defective Unloaders
- Excessive Rod Loading
- Inadequate Rod Reversal
- Liner & Rider Band Wear
- Excessive Valve Losses & Deficiencies
- Low Capacity
- Poor Engine & Compressor Frame Condition
- Lack of Skid & Foundation Structural Integrity
- Malfunctions with Rotating Accessories

**Windrock MD Software**

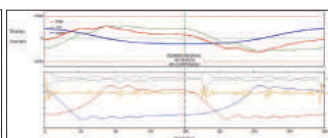
(Windows Compatible)



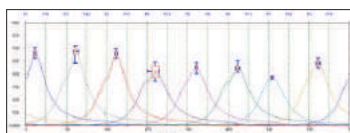
Compressor Cylinder Pressure & Ultrasonic



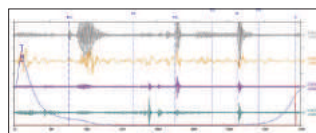
Compressor Pressure vs. Volume



Compressor Rod Load Plot



Engine Power Cylinder Parade



Engine Signature with Vibration & Ultrasonic



FFT Spectrum

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