

Machine Sentry®

Experience What's Possible

ADA™ - the Automated Diagnostic Assistant



- Fully Automated Compares multiple readings taken at a similar time on the asset to advise on potential faults present.
 - Built-in Vibration Analyst advises on common vibration problems (similar level to a Category II vibration analyst)
 - Recommends further actions identifies checks to be performed
 - Additional support for more complex analysis situations available from our expert analysts

ADA™ - Automated Diagnostic Assistant

Machine Sentry[®] contains ADA[™] the Automated Diagnostic Assistant can predict stage 2, 3 and 4 bearing failure and detect a wide range of other common fault conditions, which would be detected by a category II vibration analyst, by using advanced algorithms which are included as standard.

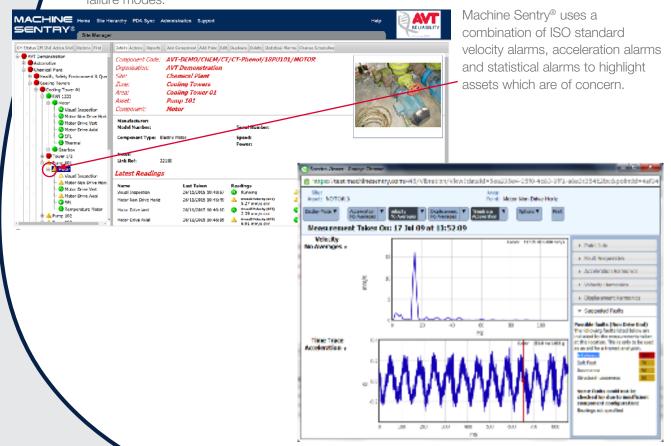
The ADA™ algorithms have been developed by AVT Reliability® team of vibration experts who have used thousands of hours of vibration data coupled with field experience. ADA™ acts as an aide to the on-site maintenance team identifying potential causes for concern

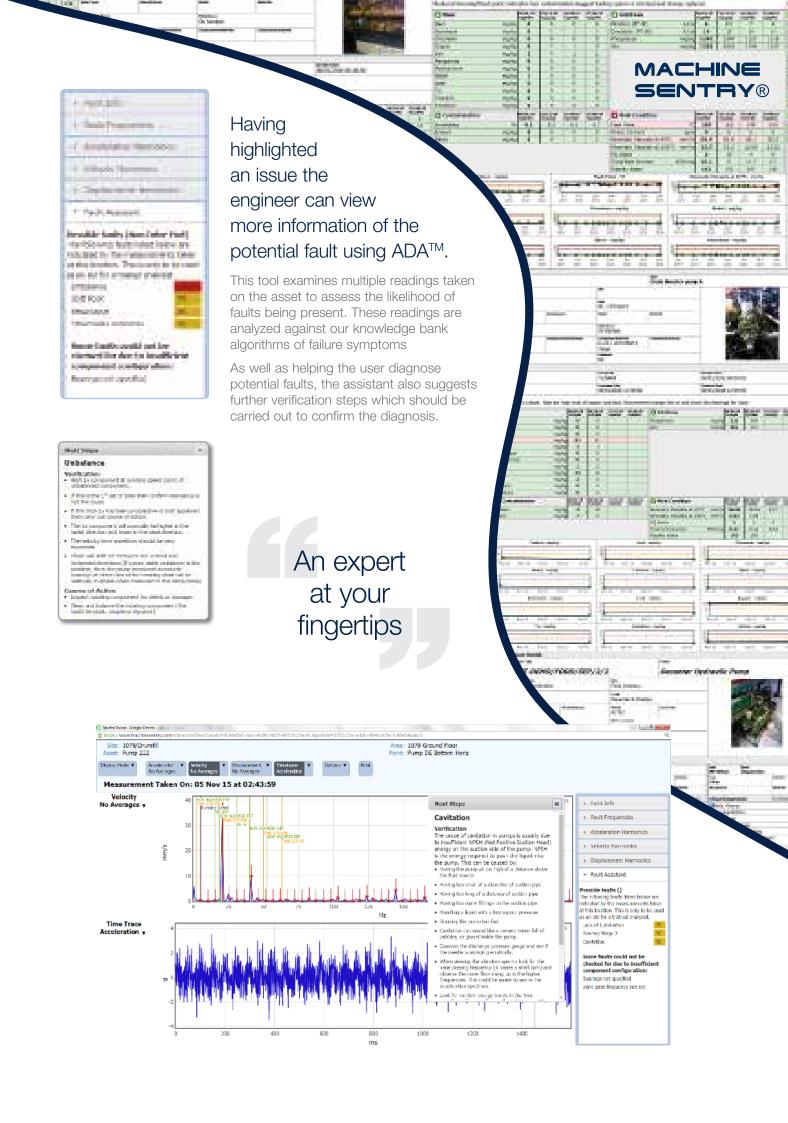
Faults diagnosed include:

- Imbalance (couple, static, dynamic and overhung)
- Bent Shaft
- Resonance
- Parallel, Angular, or
- Complex Misalignment
- Cocked Bearing
- Structural, or Rotating Looseness
- Blade or Vane Pass Issues

- Soft Foot
- Cavitation
- Lack of Lubrication
- Gear Misalignment
- Gear Backlash / Eccentricity
- Gear Broken Tooth
- Gear Tooth Wear
- Bearing Stage 2, 3, or 4

ADA™ compares and evaluates multiple vibration measurements taken on an asset in a similar time window to better evaluate and differentiate between different failure modes.





Need extra assistance?

Analyst Support

For customers who do not employ experienced condition monitoring engineers, AVT Reliability® provide access to a large pool of condition monitoring experts. These experts can review clients' 0 data and deliver practical guidance that will improve plant reliability.



AVT RELIABILITY®

The comprehensive AVT Reliability® program covers Asset Integrity, Performance Monitoring, Training, Maintenance Consultancy and Total Pump Management / Products to industry. AVT Reliability® are certified to ISO 17359 and ISO 9001. Accredited by UKAS as a Machine Directive Notified body, and are ICML and BINDT members.

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