

VDS Diagnostics

Types of Diagnostics

Auto-diagnosis tools

- Machine builder
- Forcing Orders
- Machine Speed
- Baselines (Averages)

Auto diagnostic features come from the machine class. Machine class holds information such as machine elements (mechanical parts) forcing orders, speed/RPM and data collection points. Information on machine class construction can be found here: [VDS Machine Builder](#)

Alarms

Alarms are a tool directly tied to a measurement entry, the rms and crest factor values are manually set for the entry

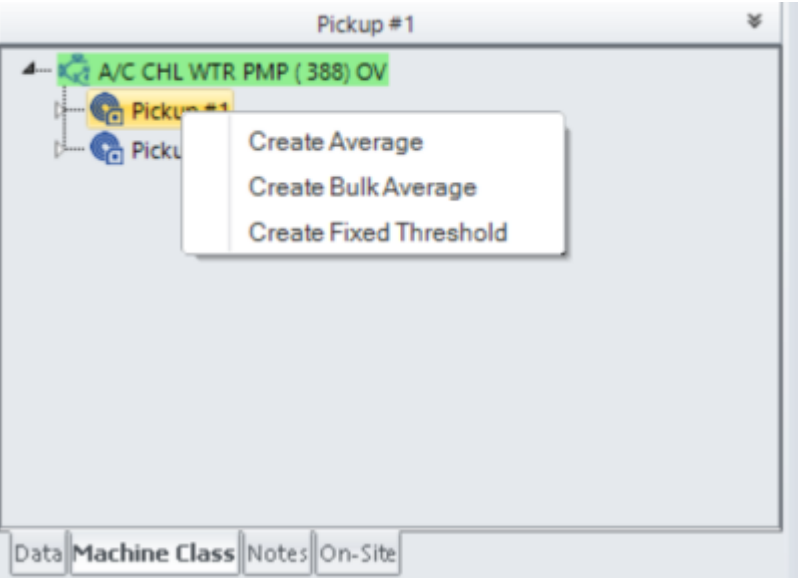
The screenshot shows the 'Measurement Entry' dialog box with the 'Alarm' tab selected. The dialog has tabs for 'Orientation', 'Parameter', 'Alarm', 'Sensor', and 'Data'. The 'Alarm' tab contains the following sections:

- Pick from the Alarm Library:** A text box with the instruction 'Pick an Alarm set up to fill in the values below. You will be able to modify the values.' and a button labeled 'Pick from the Alarm Library'.
- Link to the Alarm Library:** A text box with the instruction 'Link this entry to the selected Alarm set, such that any changes to the alarm set will be applied to this measurement entry.' and a checkbox labeled 'Link to Parameter Library'.
- Current alarm set:** A text box.
- Alarm Setup:** A section with two columns: 'Signal Level' and 'Crest Factor'. Each column has a 'Unit' dropdown (set to 'm/s' and 'RMS' respectively) and a table with three rows (Radial, Axial, Tangential) and three columns (Warn, Alarm, Danger). Each cell in the table contains a numeric input field.
- Save these setting in the Alarm Library:** A button labeled 'Save the Setup'.
- Make default for this point:** A checkbox.
- Buttons:** 'Ok' and 'Cancel' buttons at the bottom right.

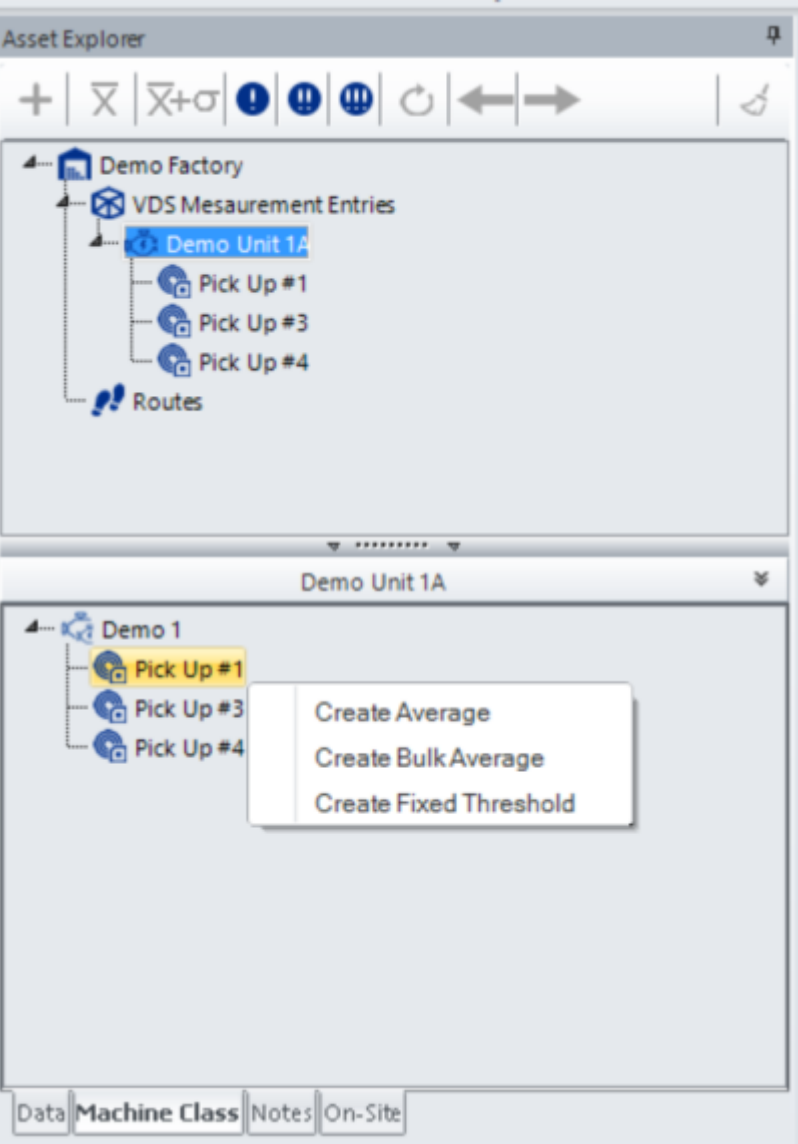
Fixed Thresholds & Baselines

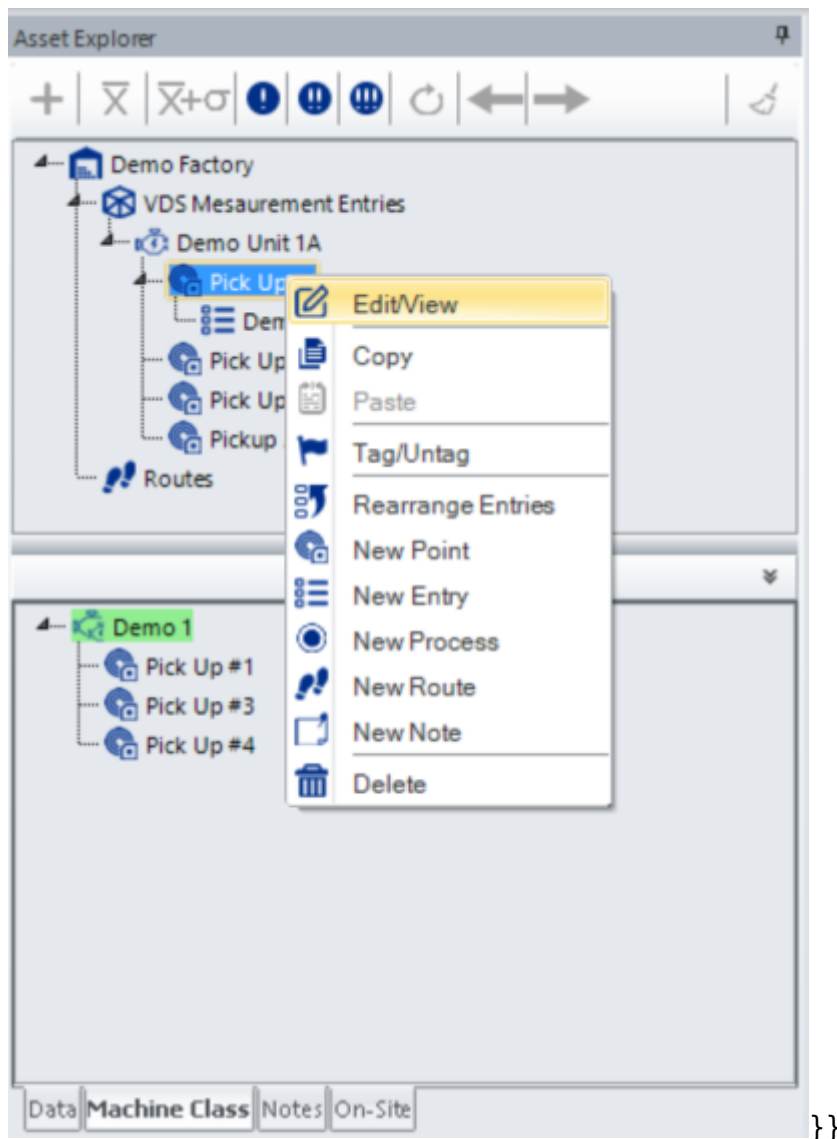
Creation

Fixed thresholds and baselines are both created by selecting a point or machine class in the asset explorer and then navigating to the machine class page in the data explorer. Then right click on the pickup point you would like to create the baseline for and select average for a baseline or fixed threshold for a fixed threshold.



Fixed thresholds



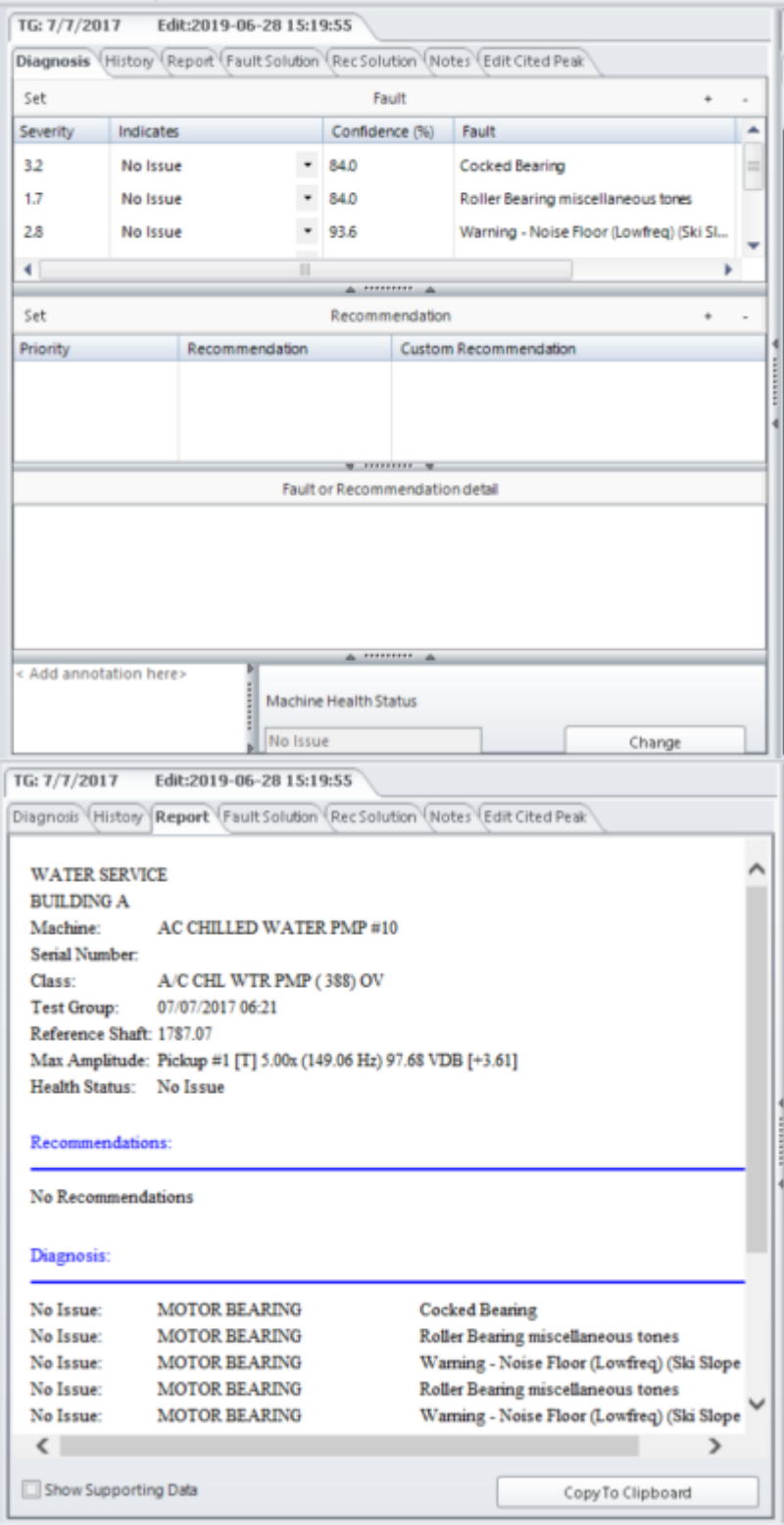


Diagnosis

Diagnostic information will be processed for the test group when route data is collected and uploaded to VDS if the option for auto-diagnostic processing is checked. Otherwise, the data can be processed by right clicking the data under the data explorer in selected point and clicking create diagnosis.

Report

Diagnostic information can be viewed in the review panel by selecting the View Diagnosis feature or by exporting the information from the tool page and selecting Diagnosis. Information includes fault diagnosis, severity, confidence interval, and recommended action



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