

Guide to Completing the Equipment Registration Sheet

This form identifies information required to effectively define your database. Often referred to as the “VTAG – Vibration Test and Analysis Guide”, the information completed in this form is essential for properly setting up the ALERT database for machine setting configurations, average baseline, and analysis.

Complete as much information as possible prior to creating Machine Identification components (MIDs). Photos or sketches should be included whenever possible. WATCHMAN Service customers should email these forms along with photos, drawings, or technical specifications to their program manager.

The following should help explain the field information to this form.

General

- Customer Info:** Reference Information for Plant / Building / Location / Customer / Site etc.
- Machine Name, Unit:** Name of Machine(s) and their unit number(s) applicable to this VTAG
- Category:** If categories are defined for program, enter applicable category name
- Model / Asset Serial:** Model number or asset serial number used to identify this machine
- Significance:** The operational significance of this machine (0 = least impact – 10 = most impact)
- Prepared By:** Name of the person completing this VTAG
- Date:** Date when VTAG was created
- Photo ID:** Image name or ID number to reference photo/drawings taken of this machine
- Notes / TOC:** Any additional notes or Test Operating Conditions applicable to machine

Driver Information

- Type:** What type of component drives this machine (AC or DC Motor / Diesel / Turbine)
- Mfg / Model:** Name of the manufacturer and model number
- Serial Number:** Enter the serial number applicable
- Frame:** Enter the frame size
- Vert/Horz:** Is this machine mounted vertically or horizontally (Enter V or H)
- Rated RPM:** RPM as indicated on nameplate
- VFD:** Running speed or VFD setting if variable speed (Slow, Fast, RPM, Hz, %, etc.)
- Volt / Amp:** Rated voltage and current per the nameplate
- HP (KW):** Horsepower or power rating
- BRG Type / Model:** Non-drive end and drive end bearing type (ball, thrust, journal) and model number
- Sensor Loc. / Orient:** Bearing test location number and sensor orientation on driver. ie (1) ART (2) RAT
- Notes / TOC:** Test Operating Conditions or other notes for testing the driver component

Coupling / Belt / Chain Information

- Type:** What type of component couples driver to driven (Coupling / Belt / Chain)
- Coupling:** What type of coupling (Circle as applicable)
- Manufacturer:** Component Manufacturer
- Speed Ratio:** Enter Speed ratio as applicable
- Sheave/Gear Dia.:** Enter the diameters of Driver and Driven gears or sheaves
- Gear # of Teeth:** Enter the number of teeth on Driver and Driven gears
- Belt Length:** Length of belt
- Center-to-Center:** Distance from centerline to centerline of each sheaves
- Notes / TOC:** Test Operating Conditions or other notes for testing the driver component

Gearbox Information

- Type:** Enter the type of gearbox
- Incr / Decr:** Increasing or Decreasing gearbox (circle one)
- Final Gear Ratio:** Enter the final gear ratio across component
- Shaft 1 (Input):** Shaft number 1 is the input shaft of the gearbox
- # Gear Teeth:** Enter the number of teeth on input gear
- Brg 1# / Brg 2#:** Enter the type and model of each bearing
- Shaft 2-4 Ratio:** Enter the ratio across each gear mesh
- Shaft 2-4 # of Teeth:** Enter the number of teeth on each gear
- Shaft 2-4 Brg#:** Enter the type and model of each bearing
- Oil Pump:** Circle yes or no to indicate if gearbox has a connected oil pump
- Aux Drive Gear:** Yes = oil pump is connected via drive gear, No = oil pump is in-line to a shaft
- Location, Shaft:** Indicate which shaft the oil pump is connect
- Sensor Loc. / Orient:** Bearing test location number and sensor orientation on gear. ie (3) RTA (5) RTA
- Notes / TOC:** Test Operating Conditions or other notes for testing the gear component

Driven Unit Information

- Pump Type:** Circle type of pump as applicable
- Fan Type:** Circle type of fan as applicable
- Compressor Type:** Circle type of compressor as applicable
- Other Type:** Circle other type of driven component as applicable

Prime Mover or 1st Stage

- Number of Elements:** Enter the number of passing elements on components 1st stage prime mover
- NDE / DE Bearing #:** Enter the type and model number of Non-drive end and Drive end bearings
- # Timing Gear Teeth:** Number of teeth on timing gear, as applicable
- Driven Lobe Element:** Number of elements on Lobe blower, as applicable
- Overhung (Y/N):** Circle Yes if driven component is overhung, circle No if driven is supported
- Sensor Loc. / Orient:** Bearing test location number and sensor orientation on driven. ie (7) RAT (8) RAT
- Notes / TOC:** Test Operating Conditions or other notes for testing the gear component

Second Mover or 2nd Stage / Tertiary Mover or 3rd Stage

- Number of Elements:** Enter the number of passing elements on components 1st stage prime mover
- NDE / DE Bearing #:** Enter the type and model number of Non-drive end and Drive end bearings
- Sensor Loc. / Orient:** Bearing test location number and sensor orientation on driven. ie (7) RAT (8) RAT
- Notes / TOC:** Test Operating Conditions or other notes for testing the gear component

Sketch or photo of the machine should indicate the installed attachment pad locations and sensor orientations.