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:	Circe 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 orientation