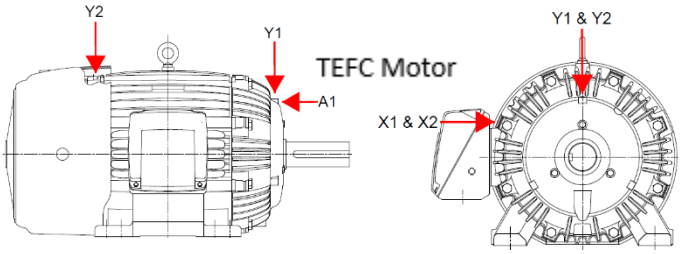
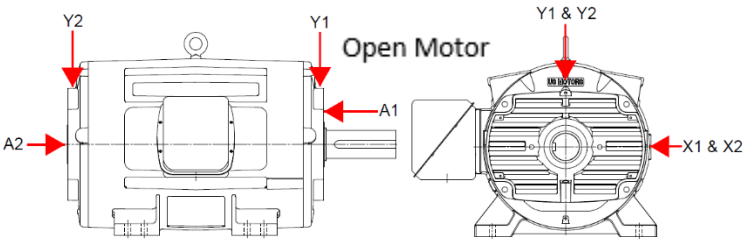
Minimum fields for useful survey information highlighted in yellow.

Horizontal Motor Vibration Survey

Subject Horizontal Motor		Driven Pump	
Manufacturer		Manufacturer	
Serial Number		Pump Type Figure	
HP		Model	
Poles		Size & Type	
Frame Size		Serial Number	
Assembly Position		BEP Rate of Flow (GPM)	
Full Load Amps		BEP Head (Feet)	
Volts/ Hz/ Phase		BEP Speed (RPM)	



These are examples of vibration measurement locations. Always practice safety and do not remove any shields or guards to take measurements. Measurements should be taken as close the bearing as possible on a solid surface of the frame or bracket, not on a cover, shroud, or box.



X1 = DE Horizontal Bearing Housing
X2 = ODE Horizontal Bearing Housing
Y1 = DE Vertical Bearing Housing
Y2 = ODE Vertical Bearing Housing
A1 = DE Axial Bearing Cap or Register
A2 = ODE Axial Bearing

Test Conditions	
Test Geographic Location	
Pumped Liquid	
Viscosity (centistokes)	
VFD Model # and Switching Frequency (If VFD is used)	
Material of Baseplate	
Ambient Temperature (°F)	
Voltage to Motor (V)	
Vibration Meter Type / Calibration Date	

Motor & Pump Data					Unfiltered Motor Vibration (Inch/Second RMS)[1, 2]					
Data Point	Motor Speed (RPM)	Motor Current (AMPS)	Pump Rate of Flow (GPM)	Pump Discharge Pressure (PSIG)	Position X1	Position X2	Position Y1	Position Y2	Position A1	Position A2

1. Preferred frequency range for unfiltered vibration measurements is 0 – 1,000 Hz.
2. For equipment operating 600 rpm or less, also record vibration in displacement (MILS Peak-To-Peak)

Tested By: _____ Form Completed By: _____ Date: _____