

Dynamic Balancing Report

Customer : XYZ Corp Contact Name : John B Good Machine Name : PV2 Fan Job Date : 1-16-16 Job Performed By : Andy Dortch

Balancing Before and After Data

.86 ips/rms

Data point and position showing highest amplitude ODE bearing, horizontal

Before

118 Industrial Blvd

229-924-3030

After

Americus, Georgia 31709

fax 229-924-1222

.081 ips/rms

081 ips/rms, noted on ISO chart below with arrow.

ISO 10816 Vibration Severity Chart Reference										
			D					18	0.71	
			с					11	0.43	
								7.1	0.28	
			В					4.5	0.18	Ve
								3.5	0.14	loci
								2.8	0.11	۲.
								2.3	0.09	
			А	5				1.4	0.06	
								0.71	0.03	
Rigid	Flexible	Rigid	Flexible	Rigid	Flexible	Rigid	Flexible	mm/s rms	inch/s rms	
Pumps > 20 hp Radial, Axial, Mixed Flow Types			Medium Sized Machines 20 hp < P ≤ 400 hp Motors With Shaft Height		Large Machines 400 hp < P < 50 MW Motors With Shaft Height					
Shaft Mounted/Flanged MTR. Motor C		Motor Coup	oled to Shaft	6.25 in. ≤ H < 12.5 in.		12.5 in. < H		-		
Group 4 Gro		up 3	Gro	up 2	Gro	oup 1			1	
Α	New Machine Condition						С	Short-term	Operation A	llowable
В	Unlimited Long-term Operation Allowable						D	Vibration Causes Damage		
Rigid = High Support Stiffness, Viibration Measured on Housing or Pedestal, No Springs or Dampers, Typical for Rolling Element Bearings										

Flexible = Means Low Support Stiffness, Typically Vibration Measured on Shaft, Flexible Pedestal Mounting, Typical for Fluid Film Bearings

Spectral data attached on next page.

Documenting before and after spectra



Job Notes:

Two anchor bolts securing fan base are broken and should be replaced. Machine has a resonant frequency that is slightly above fan running speed, and should never be run faster than the current 1025 rpm. Correction weights were welded to fan rotor.