



Tip Of The Week

September 24, 2012

Axial Shaft Movement

When analyzing online Current Signature Analysis (CSA) motor data, take a look at the peak at 5x line frequency (300 Hz on a 60 Hz system). If the peak appears to be split in two (i.e., two peaks side by side), this may be an indication of axial shaft movement. If you have split peaks and it is a sleeve bearing motor, first strobe the shaft to verify there is actual movement in the shaft. If there is movement then check the coupling and the level of the motor. If it's a ball bearing motor, shaft movement may not be obvious even with axial thrusting. Marking the shaft and running the motor uncoupled may be required to confirm the magnetic center.

You are invited to submit an Electric Motor Testing Tip of your own and receive a free PdMA mug or hat if we publish it! Contact Lou at 813-621-6463 ext. 126 or lou@pdma.com.

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