



## Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

January 15, 2007

### Establishing Band Alarms for Belt Frequency Peaks

When establishing band alarms for belt frequencies associated with a 2-pulley belt driven system, remember both the 1x belt frequency and 2x belt frequency should be evaluated. Initial band alarms for the 1x belt frequency are recommended at baseline + 10% for caution and baseline + 20% for severe. Initial band alarms for the 2x belt frequency are recommended at baseline + 25% for caution and baseline + 50% for severe. Based on test results from known defects, analysis of the 1x belt frequency focuses more on the alignment and analysis of the 2x belt frequency focuses more on belt condition and looseness.

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**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](mailto:lou@pdma.com).**

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