



A Leader in Electric Motor Testing

# Tip Of The Week

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## Lifting a Motor?

If you or your motor repair facility are planning on moving a motor for installation or repair make sure you use all the lifting points available by the manufacturer and don't forget to disconnect the load from the motor. This may be even more important for long frame motors. Using only part of the lift points available or leaving a pump connected to the motor can twist the stator frame resulting in a non-symmetrical air gap between the rotor and stator. This twisted frame will produce elevated 2x line frequency peaks in the vibration spectrum, as well as elevated eccentricity frequency peaks in the current signature spectrum. The worst case scenario may result in premature bearing failure or a rotor/stator rub.

If you would like to learn more about a variety of electric motor reliability topics including analyzing non-symmetrical air gaps, motor repair standards, using MCEMAX® technology, or even performing a motor shop assessment visit:  
<http://www.pdma.com/PdMA-training.php>.

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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