



# Tip Of The Week

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**April 16, 2012**

## Avoid the Failures

A common root cause of electric motor failures is excessive heat or vibration. The motor components will exhibit symptoms (overheating, low Polarization Index, high resistance, high vibration, etc.). The symptoms are just an indication of a root cause (corrosion, moisture, misapplication, misalignment, persistent overload, etc.), which will eventually result in a failure mode (broken rotor bars, bearing damage, failed connection, dielectric breakdown, etc.). Being proactive instead of reactive in your motor testing program will allow you determine the root cause of the symptoms, which will prevent an unnecessary failure. If a failure is inevitable, determine the root cause anyway to help prevent a future failure.

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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