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Loose Rotor Bars

Loose rotor bars are best defined as a mechanical anomaly. They commonly result in elevated 2x line frequency vibration and may first show up on EMAX testing through increased eccentricity frequencies. MCE testing may not show early indications as there are no continuity issues on the rotor cage. If left unattended, chipping and/or shorting of the rotor laminations may occur. Excessive movement may increase chances of cracks or breaks on the end ring. Swaging (press indent of rotor bars to tighten fit) is a common corrective measure before rebarring.

For more information on the Rotor Fault Zone visit our website Fault Zone Analysis page at:
http://www.pdma.com/PdMA_faultzone_rotor.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.

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