

**May 30, 2011**

## Test Your Knowledge

For the next three weeks we will be testing your knowledge of electric motor testing. See how you do.

### **Surface Condition**

Surface leakage current may be significantly higher on large turbine generators and DC machines.

- A. True
- B. False

The correct answer is True. The surface leakage current is dependent upon foreign matter on the winding surfaces outside the slot. Due to the relatively large exposed creepage surfaces, large turbine generator rotors and DC machines will usually have a significantly higher surface leakage current. Additionally, machines where a stress-control coating has been applied to the end-windings may also experience an increase in surface leakage current.

Source: IEEE Recommended Practice for Testing Insulation Resistance of Rotating Machinery - IEEE Std 43-2000

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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