



**AMERICAN & OHIO LOCOMOTIVE CRANE CO.**

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**OEM Product Support Bulletin**

**No. 17**

**DATE:** February 24, 2009 (revision date)

**SUBJECT:** Traction Motor Over-speed

**RATING:**  **DIRECTIVE** (Action is required)  **ALERT** (Potential Problem)

**INFORMATION** (Action is optional)  **PRODUCT IMPROVEMENT** (Enhance Product)

**Machine Model (s):** All Ohio DE Series Cranes

**Serial Numbers:** Equipped with Two Traction Motors & 14.98:1 or 15.0:1 Gear Ratios.

**Summary:** Crane travel speed must be limited to 28 mph with the Traction Motors engaged. Travel speed is reduced by 10% to 25 mph, when crane wheels are extremely worn.

**Operational Impact:**

**Traction motor over-speed may result from the following conditions:**

1. Self-Propelling down grades in excess of 28 mph travel speed.
2. Unchecked wheel spin. Operators should exercise caution to avoid wheel spin.
3. In-train movement of the crane while the travel gears engaged
4. Attempting to self-propel the crane without engaging the travel gears

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## **Additional Information:**

- > The maximum allowable rpm for traction motor armatures is 4,500 RPM.
- > Armature turns at a rate of 160 revolutions per one mile per hour of crane travel speed.

## **Traction Motor Rebuilds:**

- > It is critical that a rebuilt motor is balanced for a 4,500 rpm operation.

### **GE-763 Traction Motor ratings**

(Self ventilated, 33" wheels )

IEEE Ratings Continuous - 400 Amperes

60 Min. – 450 Amperes

30 Min. – 470 Amperes

20 Min. – 500 Amperes

10 Min. – 580 Amperes

5 Min. – 730 Amperes