



# AGRICULTURAL

## Case Study – Valley Fertilizers Ltd.

### Industry: Agricultural

**Problem:** Corrosion and subsequent failure of electrical components on service equipment including bobcats and loaders. Corrosion was caused by exposure both to elements such as rain and snow as well as to corrosive chemicals involved in the production of fertilizers.

**Effect:** Down time and frustration due to constant failures. Loss of productivity from equipment and employees as well as costs associated with lost production. The actual dollar values were approximately \$300.00 per month in actual repair costs.

**Recommendation:** Upon investigation of the problem, it was suggested to replace affected electrical components and begin a regular preventive maintenance program treating problem areas with Krown KL-73.

**Result:** Once the worst of the corroded areas had been replaced a regular PM schedule was instituted and has shown a vast reduction in failures, downtime, and loss of productivity. The problem of corrosion on the electrical components of the equipment has been virtually eliminated.

#### **Cost Saving:**

Extended Service Life of Electrical: \$3600.00/year  
Eliminated Maintenance Cost: \$2400.00 (48 hours@\$50/hour)

#### **Documented Cost Savings: \$3600.00**

Additional associated savings: \$2400.00 labor costs,  
\$2400.00 lost production

**Total cost savings: \$8400.00**

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