



## CARRIER TRANSICOLD STATIC TEST

OZ Highland Farm, in Auburn, Kansas initiated testing of the Chemsonic system in a 48' Refrigerated trailer. The trailer uses a Carrier Transicold refrigeration unit for cooling the reefer unit.

The trailer is used for product storage at the farm. The set point temperature for product storage is - 0° degrees Fahrenheit. The unit provided an excellent test as dressed beef and frozen Scottish pies are stored in the unit awaiting distribution.

Operating parameters: unit is operating 24 / 7, 8 months per year, 4,608 hours

Baseline fuel usage: Fuel burn prior to installing Chemsonic: **0.595 U.S. gallons per hour.**

Refueling schedule: **84 hours** / 50 gallons

### **Chemsonic:**

Results: after installing Chemsonic;

Refueling schedule: **144 hours** / 50 gallons

Fuel burn: **0.347 U.S. gallons U.S. gallons per hour**

**Fuel reduction: 41.7%**

**Annual fuel reduction: 1,142.82 gallons**

**Annual fuel savings: @ \$3.20 gallon = \$3,657.00**

**Chemsonic Cost: \$1,530.00**

**ROI: 3.34 months**

**CO<sup>2</sup> / GHG REDUCTION: 1,142.82 GALLONS = 25,649 LBS. / 11.6376 METRIC TONS ANNUALLY.**

**CO<sup>2</sup> / Green house gas reduction: 22.46 lbs. per gallon of diesel.**