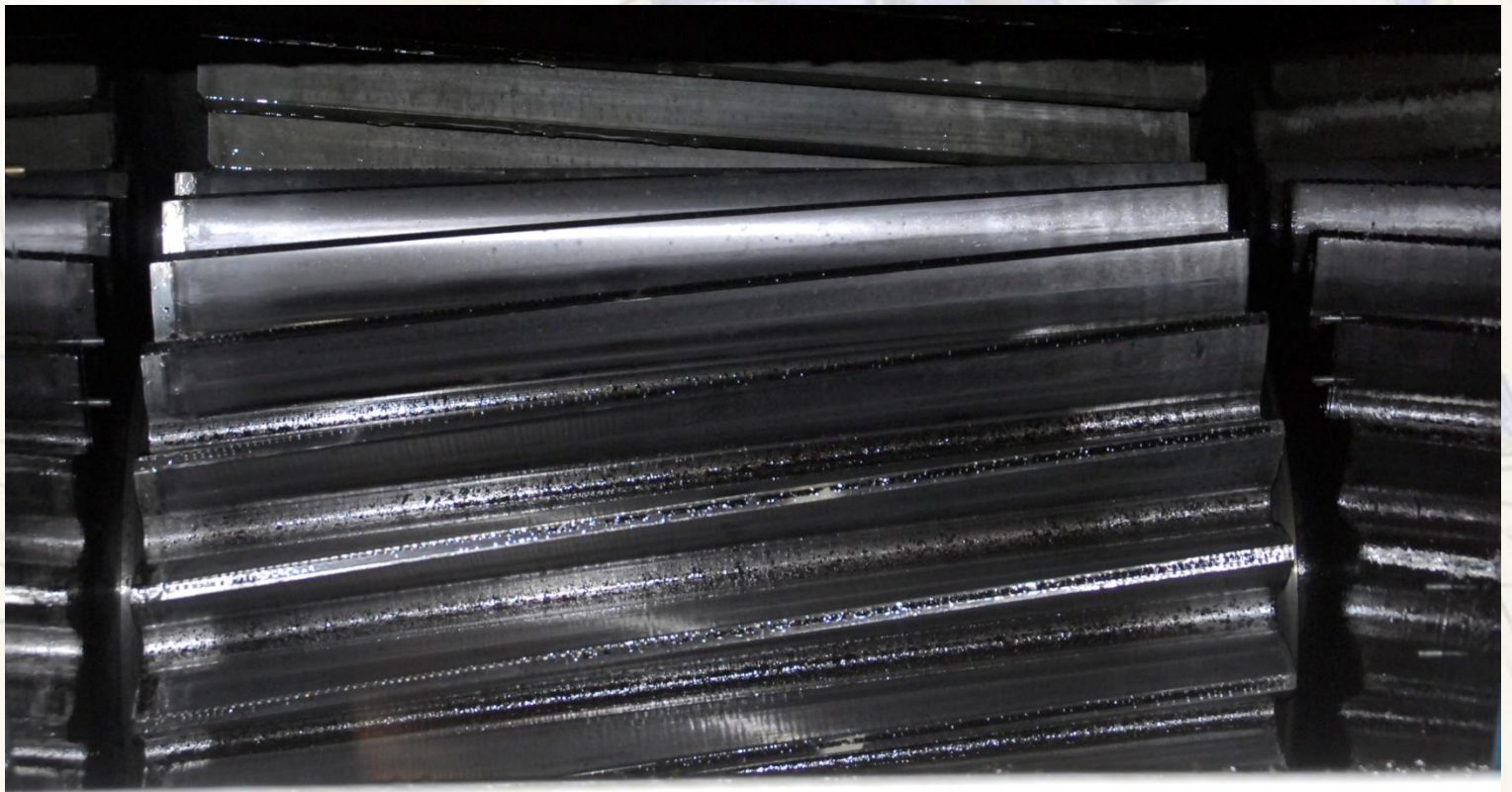




# Proof of Performance

## Gear Shield Synthetic





# *Proof of Performance*

## Background Information

**Industry: Mining**

**Equipment: Ball Mills**

**Application: Open Gear Lubrication**

**Lubricant: Petron Gear Shield Synthetic®**

### Previous Condition:

- Customer was using a low viscosity clear synthetic product to lubricate the girth gears on two raw mills.
- Calculated previous consumption of open gear lubricant for both mills was approximately 10,483 pounds per year.

### Current Condition:

- The lubricant was changed to Gear Shield Synthetic® both mills.
- Calculated current consumption of Gear Shield Synthetic® estimated at 5,896 pounds per year.

### Benefits:

- Less wear due to thicker lubricant film spanning wear particles and reducing metal to metal contact.
- Annual open gear lubricant consumption for both mills reduced by 44% (4,587 lbs).
- Reduced consumption leads to an estimated annual cost reduction greater than \$5,000.



## *Proof of Performance*

### **Previous Consumption**

#### **Per Mill:**

**3.0 ounces every fifteen minutes**

**12.0 ounces per hour**

**288 ounces per day**

**126 lbs per week**

**5,241.6 lbs per year (based on 80% mill run time)**

#### **Two Mills:**

**5,241.6 lbs x 2 = 10,483.2 lbs per year**



## *Proof of Performance*

# Current Consumption

### Per Mill:

**2.25 ounces every twenty minutes**

**6.75 ounces per hour**

**162 ounces per day**

**70.8 lbs per week**

**2,948.40 lbs per year (based on 80% mill run time)**

### Two Mills:

**2,948.40 lbs x 2 mills = 5,896.8 lbs per year**