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**Easylube 150RFID for Steel Mills - Water Pump Motor Bearings**

**Energy savings of 13.1% for the first year, 13.5% for the following year.**

**Application:** Direct Cooling Water Pump Motor (150kw) – Bearings

Customer Background

Steel Manufacturer

Problem Encountered

Operating hours: 21 hours/7 days
Operating conditions: Heated / Dusty
Previous greasing method: Manual grease gun
Previous re-greasing interval: Every 6 months

Problems encountered:
Due to high speed and long operating hours, the electric consumption (ampere reading) for motors are tremendously high. Under-lubrication has been a problem which caused high ampere reading.

When the bearing is under-lubricated, friction increased and this leads to energy loss and shortens motor lifespan. The motor bearing was found to be changed every 2 years and this problem creates unnecessary mechanical repairs, parts replacement, services and downtime costs.

Improvement Requirement:

1. Prolong bearing lifespan
2. Reduce electric consumption
3. Reduce operating and maintenance costs

Results



After using Easylube single-point microcomputer grease lubricating system at the Direct Cooling Water Pump Motor (150kw):

1. Energy savings of 13.1% for the first year, and 13.5% for the following year
2. Maximized the motor lifespan and performance
3. Proven to be a better method of lubricating the bearings. It simplifies maintenance and lubrication schedule. No more manual re-greasing work is needed
4. Reduced the risks of breakdown, and cut down operating and maintenance costs