

Mobil Engineering Support Saves Steel Industry Customer US\$160,000

**SMS High Speed Rolling Mill
Ma Anshan Steel Wire Rod Mill
China
Mobil Customer since 1987**

Objective

To increase the efficiency and reduce the unscheduled downtime in the Morgoil Bearing and gearbox.

In Year 2000, Ma Anshan Steel, one of the famous Chinese steel producers, increased production output by 100%. Following this increase they started to suffer from quarterly Morgoil bearing and gearbox failures in its finishing section. The oil in service is a high quality No-Twist Mill lubricant - Mobil Vacuoline 525.

Solution

Mobil Engineers analyzed the system with onsite equipment and identified a highly contaminated system and ineffective 3rd stage filtration.

Their recommendation was to replace the 3rd stage filter with qualified 10um filter to improve cleanliness of the oil entering into Morgoil bearings and gearboxes.

Result

The Morgoil bearing and gearbox failure rates were reduced to once a year on average. Production efficiency has improved and the maintenance cost has reduced.

Benefits

The benefits from Mobil Engineering Service are directly related to :

- Reduced unscheduled downtime
- Lower part replacement and labor cost
- Reduced lubricant consumption

This represented a saving of US\$160,000 over a year period.



Ma Anshan Steel Wire Rod Mill

