

METALS (USA)

ROLLING MILL CIRCULATING OIL

Castrol Magna® CTX 460 WT*

ANNUAL SAVINGS: \$16,284



THE SITUATION

A leading steel producer was looking for ways to reduce waste water treatment costs.

Castrol was challenged to reduce the cost of getting oil out of the waste stream.

BEFORE CASTROL

- The customer was using a common circulating oil as specified by the OEM of the back up bearings.
- The mill was having difficulty separating the oil from water in the waste treatment facility.

AFTER CASTROL

- There has been a significant reduction in the amount of wastewater treatment chemicals needed to separate the oil.

THE SOLUTION

- Castrol provided the customer with an offer which included Castrol Magna CTX 460 WT super-demulsibility circulating oil.
- Due to the super-demulsibility properties of the Magna CTX, the oil easily separates from waste water requiring fewer chemical additives to treat the waste.
- The oil was the only thing that changed during this time period; the waste treatment chemicals were still purchased from the same vendor.
- No other parameters were altered.
- This resulted in a chemical cost saving of \$1,357 per month.

- Right oil for the right application
- Better proven demulsibility; Castrol Magna CTX separates from water more effectively, utilizing the latest oil and additive technologies

RECOMMENDATIONS

Castrol Magna CTX is a super-demulsibility circulating oil specifically engineered to be used in MORGOIL® bearing systems and other similar back-up roll bearings. The ability to easily separate from water reduces the amount of oil being carried off with wastewater. Magna CTX is well suited to the high impact and high shock loads experienced by the rolling mill bearings.

CONCLUSION

The result was a lower cost to the mill to achieve its environmental goals. The reduction in oil going to the wastewater treatment facility and the ease of separating the oil from water reduced the volume and related expense for treatment chemicals.

The overall savings was \$16,284 per year.



OTHER POTENTIAL APPLICATIONS

Castrol Magna CTX WT is ideal for any circulating oil system where moderate to high water contamination is a primary concern. The rapid separation from water greatly reduces maintenance time and cost associated with moisture removal.