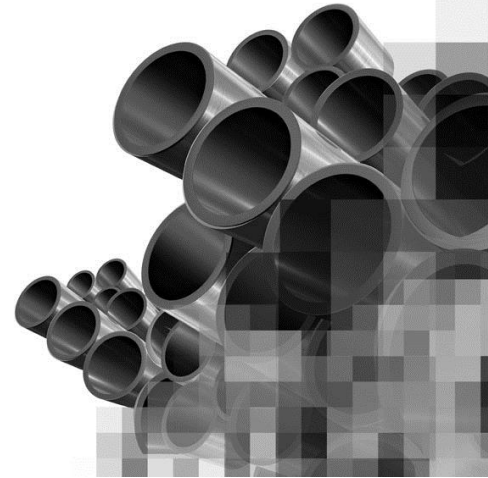


# METALS (USA)

## WELDED TUBE MILLS

Castrol Iloform® TRS 185

**ANNUAL SAVINGS: \$44,000**



### THE SITUATION

The customer was experiencing difficulties in managing their tube forming fluid system. To obtain a required rust protection level, they had to run a high concentration level with periodic tankside additions to maintain the concentration. Tramp oils were not able to be removed from the fluid causing bacteria and other HSE issues. The fluid supplier provided little service other than delivery and billing for the product.

### BEFORE

- Fluid concentration run at 18% in order to obtain the required rust protection level.
- Periodic additives were required to maintain fluid integrity.
- Laboratory analysis was periodic at best.

### AFTER

- Concentration with Iloform TRS 185 was lowered to 10%.
- Tramp oil is now removed easily by skimming.
- Weekly sample analysis is provided to maintain fluid stability.

### THE SOLUTION

- Castrol made recommendations to address the high concentration levels and maintain the required rust protection.
- Castrol Iloform TRS 185 was recommended for its excellent performance, corrosion resistance and bio-resistance.
- Castrol provided a Fluid Condition Monitoring Service on a weekly basis.

- Providing a solution that comes from an extensive knowledge of the tube manufacturing process
- Ability to provide a high level of product technology and services to provide the customer with cost savings

## RECOMMENDATIONS

---

Castrol's offer included Castrol Iloform TRS 185 which provides excellent detergency to remove mill oil and scale from the tubes and forming rolls as well as exceptional corrosion resistance. The Fluid Condition Monitoring Services ensure system stability and prolonged system life. Tramp oil removal is essential to extended fluid life.

## CONCLUSION

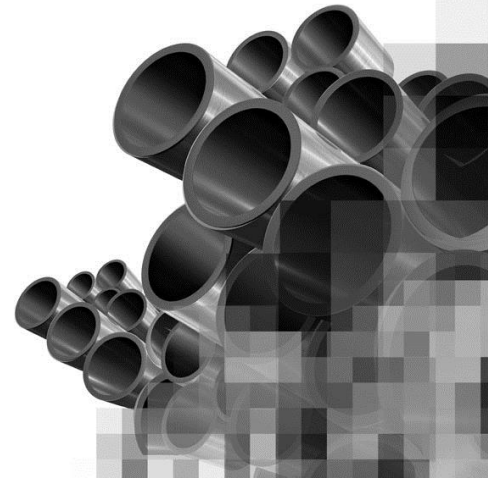
---

- No rust claims were made since Castrol Iloform TRS 185 was installed.
- Coolant usage was reduced by over 25%.
- Savings on product cost alone was over \$44,000.
- Tankside additives were eliminated.

## IMPACT TO THE CUSTOMER

---

- Fluid spend reduction of \$44,000
- Fluid monitoring service provided for no charge (est. value of \$2,600/yr)
- No rust related issues
- No bacterial issues



## OTHER POTENTIAL APPLICATIONS

Castrol has product and service offers for most mechanical, structural and coated welded tube operations including Tube Forming, Corrosion Prevention, Tube Cut Off and Maintenance Lubrication.