

METALS (US)

FIRE-RESISTANT HYDRAULICS

Castrol Anvol® SWX 46*

ANNUAL SAVINGS: \$125,677



Hydraulic cylinder replacement and related down time was reduced over five times after change to Castrol Anvol SWX fire-resistant hydraulic fluid.

THE SITUATION

A leading steel producer was experiencing very frequent Slide Gate Hydraulic system failure. The most critical part of Slide Gate Hydraulic system is the Parker 5.00JJ-2HUV14A7.00 hydraulic cylinder. Approximate cost: \$1,000.00.

Castrol was challenged to reduce Slide Gate Hydraulic system failures, hydraulic cylinders replacement, total maintenance costs, and increase overall uptime.

BEFORE

- Using water glycol type fire-resistant hydraulic fluid
- 150 hydraulic cylinders consumed in one year; double usage from the previous year

AFTER

- We opted to use the Castrol Anvol SWX 46 fire-resistant hydraulic fluid as our choice for hydraulic oil. This application is very hot, and requires a fire-resistant fluid for safety reasons.
- The hydraulic cylinders usage was reduced to 27 versus 150 the previous year.

THE SOLUTION

- The introduction of Castrol Anvol SWX 46 fire-resistant hydraulic fluid resulted in 5.5 times lower annual cylinder usage.
- The oil was the only thing that changed during this time period. The cylinders were still purchased from the same vendor.
- No other parameters were altered.
- This resulted in a cylinder cost saving of \$133,000.
- Lubrication cost rose slightly resulting in a total cost savings of \$125,677.

*Formerly known as Anvol SWX 46 FM

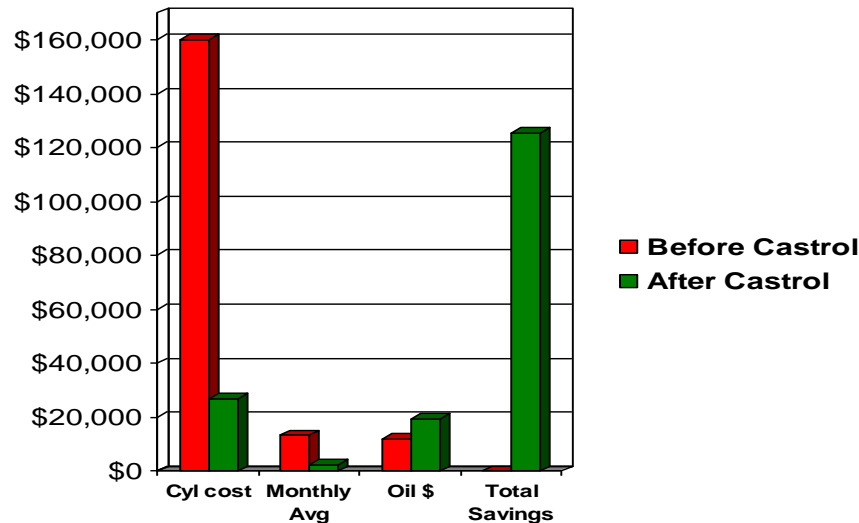
RECOMMENDATIONS

Castrol Anvol SWX is able to handle the very harsh working conditions of hydraulic cylinders in the Slide Gate Hydraulic system, as well as any other hydraulic system in a Melt Shop which requires fire-resistant hydraulic fluid.

CONCLUSION

- The year after introduction of Anvol SWX 46, only 27 cylinders were used versus 150 previously.
- Average monthly usage was down from 13.3 to 2.25.
- Hydraulic cylinder cost savings of \$133,000.

Slide Gate Hydraulic System Cylinder Cost Reduction and Total Maintenance Savings



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OTHER POTENTIAL APPLICATIONS

Castrol Anvol SWX is ideal for any area of steel production where fire-resistant hydraulic fluid is required. The application of Castrol Anvol SWX will significantly increase equipment life and provide overall trouble-free operations.