

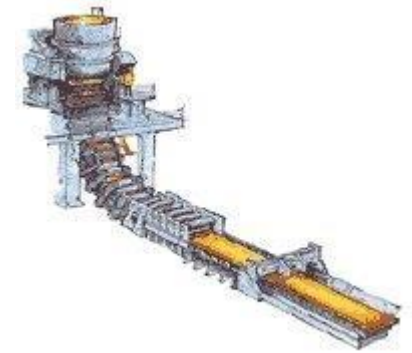
Anvol SWX Successfully Replaces Phosphate Ester

METALS (USA)

Caster Mold Oscillator Hydraulic System

Castrol Anvol® SWX 46*

ANNUAL SAVINGS: \$85,710



THE SITUATION

A major steel mill was running a phosphate ester fire-resistant hydraulic fluid in their mold oscillator. They were unhappy with the following areas:

- ❖ High price per gallon
- ❖ Frequent oil change-out rate
- ❖ Limited pump & cylinder life
- ❖ Extra environmental reporting (SPCC audits)

BEFORE

- Phosphate ester in use
- Oil changed every 6 months with partial dumps every 6 weeks
- Cylinders changed every 6 months
- Pump life 4-8 months

AFTER

- Anvol SWX (polyol ester) in use
- Oil tank life doubled
- Cylinders extended to 1-year replacement
- Pump failures greatly reduced

THE SOLUTION

- Anvol SWX 46 was offered as an alternative to the expensive phosphate ester in use.
- The customer developed a new cylinder change-out procedure. This coupled with the performance of Anvol SWX has resulted in longer cylinder life.
- The use of the Anvol SWX has also resulted in longer pump life.
- With its lower price, longer life, and better wear protection, Anvol SWX saved the customer substantially in oil costs (\$32,957) and equipment expenses (\$52,753).

- Double oil life
- Greatly extended equipment life
- Improved overall reliability

*Formerly known as
Anvol SWX 46 FM

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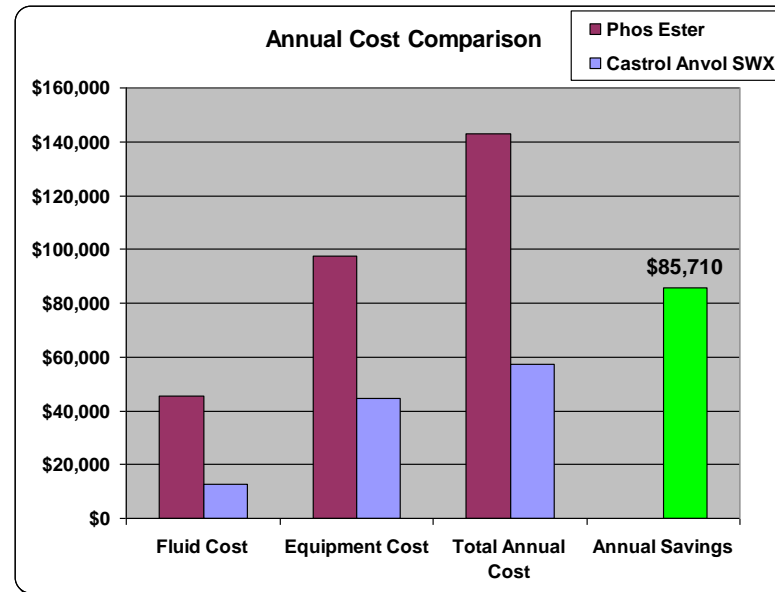
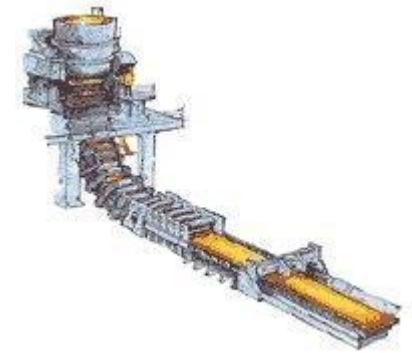
RECOMMENDATIONS

Due to the previous phosphate ester building acidity very quickly, the customer had implemented strict procedures to regularly perform partial and full dumps of the tanks. This led to very high oil usage and costs. Anvol SWX is based on a highly saturated polyol ester that builds acidity very slowly, allowing for long drain intervals. In addition, Anvol SWX has outstanding wear characteristics that allowed for greatly extended pump and cylinder life.

CONCLUSION

The use of Anvol SWX 46 has resulted in a substantial cost savings related to oil price, oil usage, and equipment life.

The result was \$85,710 in annual savings.



OTHER POTENTIAL APPLICATIONS

Anvol SWX series fire-resistant hydraulic oils offer exceptionally long life of the oil and hydraulic components, while providing an added level of safety over conventional mineral hydraulic oils. They are also a great alternative to phosphate esters.