

Anvol SWX Greatly Reduces Downtime

AGRICULTURAL EQUIPMENT (USA)

FOUNDRY CENTRAL HYDRAULIC

Castrol Anvol® SWX 46

ANNUAL SAVINGS: \$103,056



THE SITUATION

A major agricultural equipment manufacturer was having issues with the incumbent fire resistant hydraulic fluid in their foundry, including high oil temps, foaming, and short pump life. The main concern was the unscheduled production downtime due to these problems.

The customer's engineers requested Castrol to investigate the root cause and provide a solution.

BEFORE

- Leading competitor fire-resistant hydraulic fluid
- Regular foaming
- High oil temp shut-downs
- Shortened pump life
- Unscheduled downtime

AFTER

- Anvol SWX fire-resistant hydraulic fluid
- Air release greatly improved
- Temp reduction eliminated shut-downs
- Extended pump life
- No unscheduled downtime

THE SOLUTION

- Castrol engineers evaluated the incumbent fluid through oil analysis and performance testing in the lab.
- Results indicated a deficiency of the incumbent in air release, wear protection, and oxidation resistance as compared to Anvol SWX.
- Castrol reviewed this information with the customer's engineers who agreed with the findings.
- Castrol worked with the customer in planning of the difficult oil conversion, due primarily to the large size of the system.

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RECOMMENDATIONS

The Central Hydraulic system has a huge volume (~12,000 gal total) which required careful planning in order to change-over. The fluids were compatible but due to Factory Mutual recommendations, fire-resistant fluids should not be mixed in large quantities. Castrol supported this conversion with in-plant personnel to ensure a smooth transition.

CONCLUSION

After a full year in service, the Castrol fluid has exceeded the customer's expectations. The lab testing proved to be accurate for the situation, and the conversion provided a large savings.

The result was \$103,056 in annual savings related to lower downtime, extended pump life, and reduced oil costs.*

*Note: Customer did not share specific savings details, but the total amount was officially signed-off in their internal tracking system.



*Foundry central
hydraulic tank, about
12,000 gal total in
tank and lines*

OTHER POTENTIAL APPLICATIONS

Anvol SWX is a fully synthetic polyol ester fire-resistant hydraulic fluid approved by Factory Mutual. It was designed to overcome the deficiencies of competitor fluids for increased oil life, elimination of sludge formation, improved air release, and longer pump & valve life.