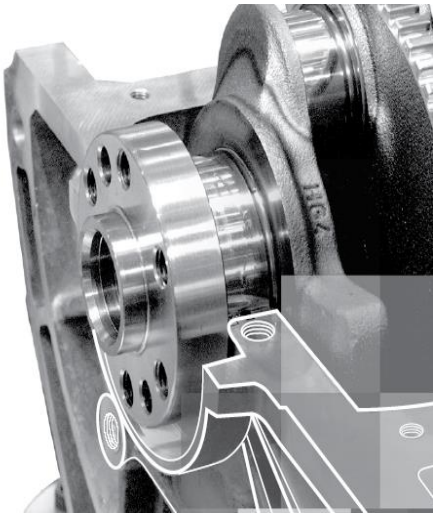
* Formerly known as WS3-908F

AUTOMOTIVE (USA)

ENGINES

Castrol Alusol® 908*

ANNUAL SAVINGS: $17,275



THE SITUATION

Crank-bore and cylinder bore honing were supplied coolant from two separate coolant systems using the same coolant, Alusol 908. Cross contamination of the two coolant systems occurred inside the machine. The filtration system on the smaller coolant system failed several times causing downtime and occasional scratches on the crank-bore.

BEFORE

- Two coolant systems supplying coolant to block hone operation
- 16 blocks scraped in six months due to scratches in crank-bore from failed filtration in the smaller system

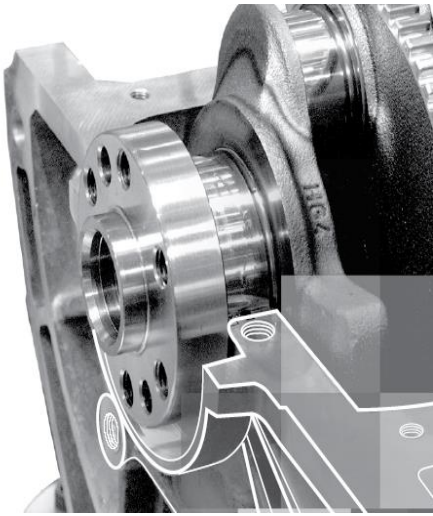
AFTER

- Elimination of one coolant system led to the following savings:
  - Electrical Energy Savings $3,486
  - Filtration Savings $1,950
  - Downtime Reduction $1704
  - Scrap Reduction $10,135

THE SOLUTION

- Scratches were observed only in the crank-bore honing operation.
- Cross contamination caused daily variation in the two coolant system concentrations
- The recommendation was made to consolidate the two systems and eliminate the smaller system.

- Solutions improve system performance



RECOMMENDATIONS

From past experience and extensive product/filtration knowledge, Castrol recommended consolidation of the two systems to improve the filtration and reduce downtime and scrap.

CONCLUSION

After the change there were no scratches observed on the crank-bore. **Consolidation of the two systems resulted in overall savings of $17,275.**