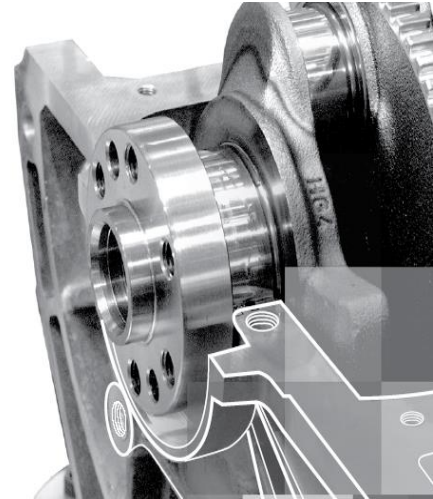


AUTOMOTIVE (USA) ENGINES

Castrol Techniclean® 2000

ANNUAL SAVINGS: \$7,500



THE SITUATION

A major engine manufacturer was producing cast iron engines with a soluble oil. This product was difficult to split in the cleaner stage, leading to biological problems, low pH, odors and excess product usage in the washers.

This customer asked Castrol to help improve cleaner washer life.

BEFORE CASTROL

- Previous bath life: 3-4 months
- Heavy biological odors
- Kathon additions every two weeks.

AFTER CASTROL

- Castrol Techniclean 2000 for improved oil splitting, bath life, pH stability and biological control.

THE SOLUTION

- The introduction of Castrol Techniclean 2000 reduced annual chemical usage by 600 gallons.
- Techniclean 2000 extended bath life from 3-4 to 6 months.
- With Techniclean 2000 no Kathon additions were required; pH remains stable; no tank odors.
- With bath life extended to six months, there is one less clean out per year and one more day of production availability.

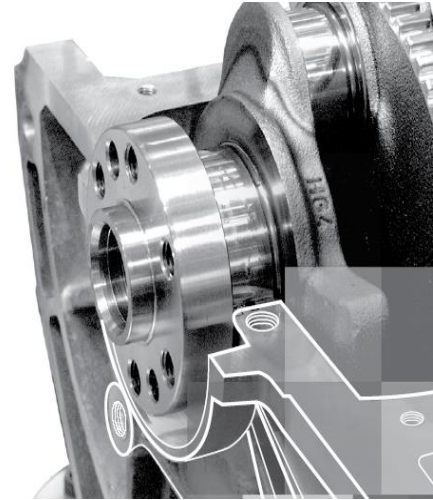
The success of Techniclean in this application leads to new business in other washers in this facility

RECOMMENDATIONS

Castrol Techniclean 2000 can improve oil splitting, bath life, pH stability and biological control.

CONCLUSION

Improved washer life has helped this customer improve productivity with more uptime.



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