

Techniclean MP 2 Greatly Improves Cleaning Process

MACHINERY MANUFACTURING (USA)

HYDRAULIC MANIFOLDS

Castrol Techniclean® MP 2

ANNUAL SAVINGS: \$21,902



THE SITUATION

A hydraulic manufacturer was interested in improving their final washer process, along with consolidating their current fluid suppliers. The part cleanliness was critical to the blackening process that followed the washer. The competitor fluid was not achieving the best possible part cleanliness. Sometimes, parts would require multiple passes through the washer before going to the blackening process. Because of this, the washer was being dumped and recharged weekly on a regular PM schedule.

BEFORE

- Acceptable part cleanliness but often required multiple passes
- Concentration of 15–18%
- Poor rust prevention properties
- Elevated fluid usage

AFTER

- Excellent part cleanliness
- **Concentration of 3%**
- Improved rust prevention
- **Reduced fluid usage 50%**
- Improved cleanliness made blackening process easier

THE SOLUTION

- The objective was to improve part cleanliness, reduce concentration, and lower fluid usage.
- Castrol recommended a fluid that was known to provide excellent cleaning performance in ultrasonic washers.
- Due to the improvement of part cleanliness, the blackening process has become much easier to accomplish for the customer.
- The change resulted in improved part cleanliness, drastic reduction in concentration, improved rust prevention properties, and over 50% reduction in usage.
- Technologically advanced fluids coupled with problem solving expertise
- Customer buy-in and support throughout

Techniclean MP 2 Greatly Improves Cleaning Process

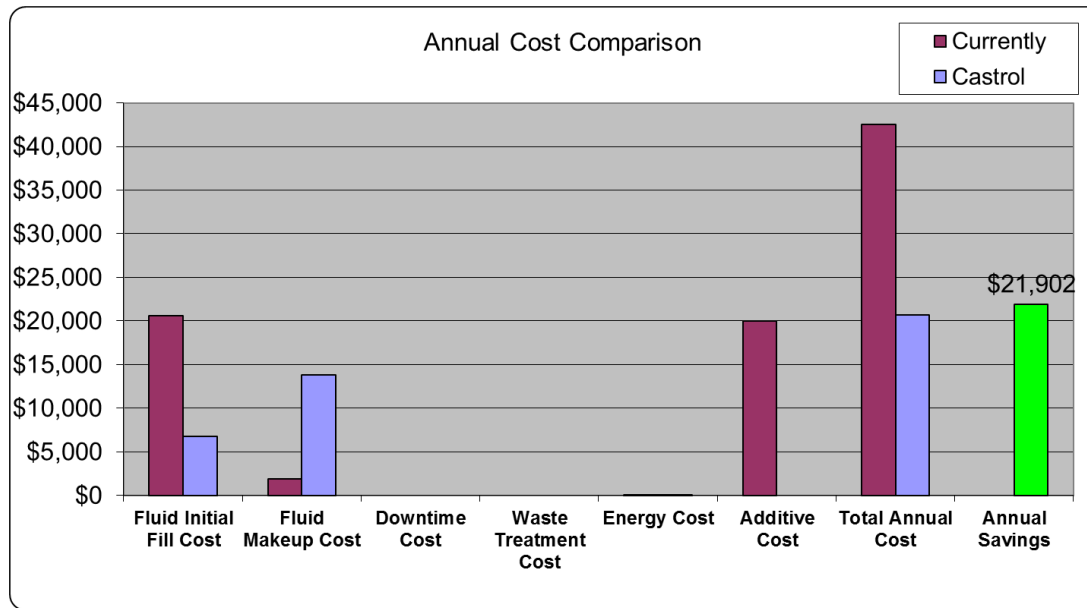
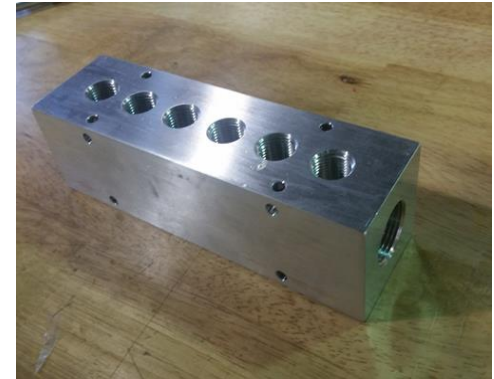
RECOMMENDATIONS

The proposal was made to convert the system to a proven fluid that was designed for ultrasonic wash processes. We also recommended charging the system up at less than ½ the concentration as the competitor fluid.

CONCLUSION

After one month of testing, the data shows a significant reduction in concentrate usage, the elimination of additional rust preventive fluids for parts that do not go through the blackening process, and overall improved part cleanliness.

The result was over \$21,000 in annual savings and significant process improvements!



OTHER POTENTIAL APPLICATIONS

Castrol Techniclean MP 2 is a great cleaning fluid in ultrasonic wash applications in addition to flood, dip, and spray washers. It performs well on all metals at low concentration levels, yet still provides excellent rust inhibition.