

BEARINGS (USA)

Roller Bearings

Castrol Techniclean® MP 2*

Long Life, Residue-free Cleaner



THE SITUATION

A large bearing producer needed to find a replacement cleaner to wash the bearing rollers they produced. The cleaner that they had been using was being discontinued due to rationalization.

They wanted to maintain the cleaning properties of the former fluid and continue to meet the cleanliness requirements established for their steel rollers.

This was a central washer where the fluid remained for up to one year between change-outs. Spots and residues would also not be tolerated.

BEFORE

- Previous fluid lifted oily soils completely, leaving streak-free, well degreased part
- Wash fluid was low foaming in the ambient temperature, low pressure spray washer

AFTER

- Techniclean MP 2 met all the goals of the cleaning challenge, lifting oily soils, yet releasing oil readily in the coalescing unit
- Additionally, the cleaner has good bio-resistance, allowing central wash system to last for a full production year.

THE SOLUTION

- Previous testing showed that a cleaner with good detergency and oily soil lifting properties best fit the customer needs.
- Excess oil is readily removed by a coalescing system.
- Good rust protection was achieved in order to protect the parts between post washing operations.
- A small scale trial was made, with the parts tracked through the press & heat treat operations, without loss of cleaning performance.
- After the central wash system was recharged with Techniclean MP 2, good cleaning performance has been maintained.

- Residue free parts keep press operations from developing rejects.
- Cleaning performance works well for parts prior to assembly
- Low fluid usage keeps daily operating costs low.

RECOMMENDATIONS

The customer found that oil-rejecting cleaners would not be effective in their operations due to the oiliness of the parts. The low pressure spray does not provide enough impingement to adequately lift the oily soil and as a consequence, inadequately clean parts caused issues with the press and heat treat operations.

The ambient conditions also limited the effectiveness of oil rejecting, low foaming cleaners where more heat would help break up oily soil films.

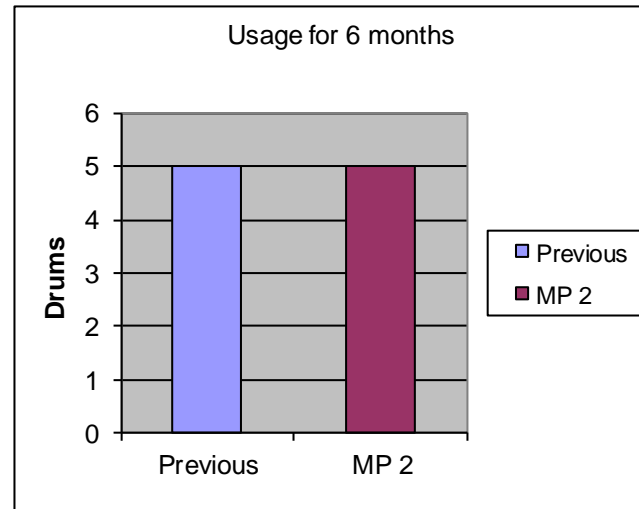
Any customer with severely oily parts would benefit from the excellent degreasing and oil lifting properties of Techniclean MP 2

NO CHANGE IN USAGE OR COST

Fluid consumption was equal to the previous Castrol product & cost to the customer did not change. We were able to meet the goal of no increase in cost of operation.

CONCLUSION

Our customer was well satisfied with the type of performance they experienced with the previous Castrol cleaner – it met their requirements completely, especially in that they achieved a working life of one year with minimal maintenance to the fluid. Techniclean MP 2 is able to meet the same cleaning goals and do so with a slightly lower pH operating environment.



OTHER POTENTIAL APPLICATIONS

Techniclean MP 2 is well suited to remove quench oils, oily rust preventives, or oily cutting or forming fluids.

It is also suited to degrease excessive oil from parts being cleaned for maintenance purposes, especially in spray washers heated above 120°F