

Reduced cost and environmental concerns using Castrol Techniclean cleaning fluid

MACHINERY MANUFACTURE (USA)

AGRICULTURE EQUIPMENT

Castrol Techniclean® 2000

ANNUAL SAVINGS: \$49,110



THE SITUATION

An agriculture equipment manufacturer was using a low cost cleaner for the final cleaning of assembled equipment. The cleaner had been in use for many years and was working, but the manufacturer was looking for lower VOC's (volatile organic compounds) and overall cost savings.

BEFORE

- High VOC cleaner
- Concentration target of 6%
- Worker acceptance was good

AFTER

- Lower VOC (20%) with Techniclean 2000
- Reduced concentration to 3%
- Good worker acceptance
- Cleaned effectively without changing any other parameters

THE SOLUTION

- Techniclean 2000 is used at 3% concentration and 130°F.
- Cleaning final assembled equipment, prior to it leaving the plant.
- Soils include light to medium oils, dirt and smut.
- The cleaner is applied by hand sprayers in booths similar to a car wash.
- Workers are subject to odors and overspray from the equipment.
- Compatibility with seals, paint, glass, plastics, rubber and metal was taken into account during testing of the cleaner.
- This has been implemented into 10 final wash booths and 3 rework booths.

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RECOMMENDATIONS

Techniclean 2000 was recommended because of the ability to be compatible with all of the different materials. The fresh odor and slight foam that is generated when sprayed helps to clean the surfaces of the equipment. A water rinse is all that is required to remove the cleaner, leaving a streak-free surface.

Typical spray booth operation

(note: picture not representative of actual equipment being manufactured)

CONCLUSION

The price of the competitive cleaner and Techniclean 2000 were very similar, but the Techniclean was able to run at half the concentration with the same effectiveness.

This generated a 50% reduction in usage equating to over \$49,000 annual savings!



OTHER POTENTIAL APPLICATIONS

Techniclean 2000 is an excellent floor and machine cleaner. It is typically used at half to a quarter of the concentration rate of other cleaners.