

Safer Parts Washing with Castrol Fluid

MACHINERY MANUFACTURE (USA) POWER TRANSMISSION COMPONENTS Castrol ILOFORM® 7425

Improved Cleanliness and Operator Safety



THE SITUATION

A global manufacturer of power transmission components (roller chains, sprockets, etc.) was facing health & safety concerns, as well as downtime associated with the parts washing operations. Several solvents were tested or considered, but none met the customer's requirements for cleanliness and operator safety. In addition, the customer required local service and supply for the fluid.

BEFORE

- Lacquer thinner was being used to remove forming oil residues on stamped components.
- Oily parts prevent smooth feeding, causing jamming of equipment and unplanned downtime.
- Operators complained of odor.

AFTER

- Castrol ILOFORM 7425 successfully removed the tenacious forming residue.
- Parts dried quickly and prevented issues with the feeding equipment.
- Operator acceptance was excellent.

THE SOLUTION

- Parts were first bench washed with ILOFORM 7425 to determine operator acceptability as well as soil removal and drying time.
- Criteria included residue-free and oil-free parts to accommodate the assembly process.
- Castrol ILOFORM 7425 eliminated a volatile chemical, reducing fire risk and other potential EHS concerns.

- Lower health concerns
- Greater operator acceptance
- Reduced downtime
- Clean parts
- Local supply & service

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RECOMMENDATIONS

ILOFORM 7425 is a viable alternative for volatile and hazardous solvents. It provides good operator acceptance and leaves an imperceptible film after the cleaning process.

CONCLUSION

ILOFORM 7425 eliminated downtime in the feeder units equating to an additional 20% productivity in the assembly area. In addition, a hazardous solvent was removed from the process, and operator safety was greatly improved.

“Changing this process helped us meet two objectives: A safer operator environment and reduced machine downtime.”

– Plant Engineer



OTHER POTENTIAL APPLICATIONS

ILOFORM 7425 makes an excellent light duty stamping/vanishing fluid where dry parts are needed right away.



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