

# MACHINERY MANUFACTURING (USA)

## STAMPING

Castrol Iloform® PS 364

**ANNUAL SAVINGS: \$168,900**



### THE SITUATION

A major machinery manufacturer draws and stamps lawn and garden mower decks and tractor components.

A competitive drawing and stamping fluid caused rust, foam, and required cleaning before assembly and welding. Many maintenance hours were spent cleaning up messes from tanks that would overflow because of foam.

Parts were sent to an outside company to be cleaned and inhibited before welding and assembly. The incumbent fluid company was not responsive to the needs of the customer.

### BEFORE CASTROL

- Rust issues
- Foaming issues
- Temporary workers hired to clean rusted parts and apply rust inhibitors

### AFTER CASTROL

- Reduced cleaning by maintenance
- No foaming
- Eliminated rework, excess material handling and excess shipping costs

### THE SOLUTION

- Castrol utilized a new drawing compound, Iloform PS 364, to fix the issues seen with the existing fluid. There were four companies selected to trial new products in the drawing operations.
- The Castrol Iloform PS 364, when used at 50% concentration, performed the difficult draws with no foaming issues and no occurrences of rust, and has been approved to go through welding and assembly with no cleaning.

- **Right fluid in the right application**
- **High-performance products**
- **On-site service**

## RECOMMENDATIONS

Castrol Iloform PS 364 is best used in roll coating applications because of its high viscosity. Spraying application can be achieved if used at dilutions of 25% or less.

Castrol Iloform PS 364 has a high degree of detergency to allow it to penetrate heavy mill oils for a nice even coating.

The residue of Castrol Iloform PS 364 left on parts after the deformation, provides a temporary rust inhibitor film. The residue can be welded through and easily cleaned with warm alkaline cleaning solutions such as Castrol Techniclean S 5001.

## CONCLUSION

Offering the right fluid with the right application gave this customer the confidence that Castrol can support the operation.

Meetings with all three shifts gave the work force confidence that Castrol will be there to help when problems arise.



## OTHER POTENTIAL APPLICATIONS

Castrol Iloform PS 364 is a heavy-duty drawing and stamping fluid for ferrous parts. It can be used on heavy steel drawing applications such as auto frames, stainless steel sinks, bath tubs and structural components.

Type	Savings
Reduced maintenance cleanup costs	\$ 11,700
Reduced rust rework and inhibitor	\$ 7,200
Eliminated cleaning, handling, and shipping	\$150,000
<b>TOTAL SAVINGS</b>	<b>\$168,900 USD</b>

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