

# CASE STUDY

## RENOFORM OS 7806

### Replacement of a water-miscible chlorinated oil



#### CLIENT OBJECTIVE

Motivated by potential associated EPA restrictions, a leading manufacturer of precision formed products desired to replace chlorinated-paraffin based soluble stamping oils used in their most severe operations. The company required that the replacement lubricant had no adverse effects to part quality, tooling, post-processing or disposal. It must eliminate the use of any form of chlorinated additive.

#### APPLICATION DETAILS

- Multiple stamping presses
- Heavily chlorinated petroleum soluble oil used at 20% in water 0.04" to 0.20", dimensional tolerances below 0.003"
- Part cleanliness, sump life and tool life are critical to their business

#### PROJECT GOALS

- Eliminate chlorinated paraffin with an equally effective chlorine-free lubricant
- Reduce disposal costs associated with chlorinated oil
- Maintain tool life of dies
- Maintain or improve part finish and tolerances
- Continue to apply via flood and spray application

#### IMPROVEMENTS ACHIEVED

- Part quality was improved – tighter tolerances, enhanced part cleanliness and finish
- Tool life was maintained and increased in some areas
- Fluid sump life extended
- Work environment improved

#### BUSINESS VALUE

- Part rejects are reduced due to more consistency in meeting tight part tolerances
- Chlorine related corrosion eliminated and overall anti-rust protection improved
- Lubricant use reduced because recirculating sump life increased
- Lighter lubricant residue improves part cleaning and general housekeeping

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