

# Customer Testimonial



## Xclude® Desiccant Breathers

*Ring Container Technologies – Belle Fourche, S.D.*

### *Liberty Blow Molding Machine*

- Significantly reduced particle count and water contamination
- Extended the expected life of hydraulic systems by a factor of five times

#### *Customer Profile*

Ring Container is a U.S.-based company with manufacturing plants in 18 states, plus one in the U.K. and one in Canada. This plant has three production lines and produces poly containers using blow mold machinery. It has been in business and has been an LE customer since 2005.

#### *Application*

Ring Container uses three Liberty RSI 3500 blow molding machines to manufacture 1.5- and 4-gallon poly containers used by adjacent bentonite plants to package granular bentonite marketed as kitty litter.

#### *Challenge*

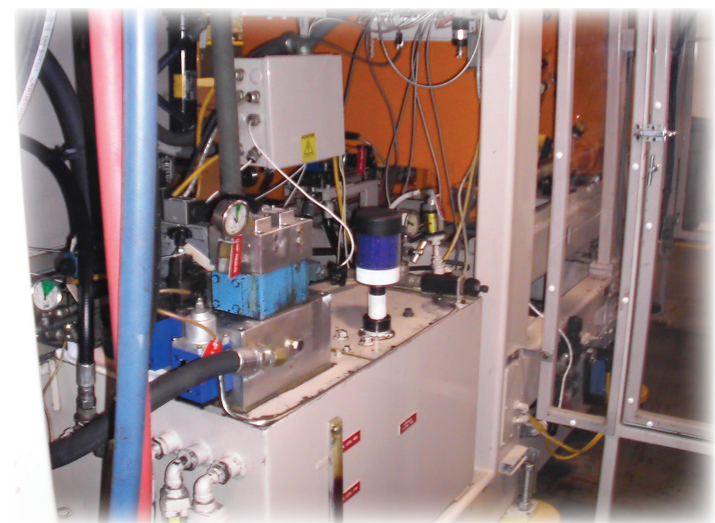
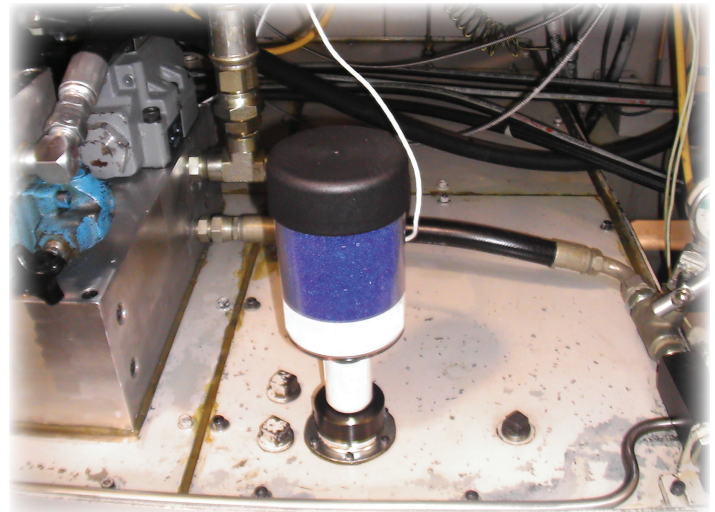
Hydraulic oil reservoirs constantly had contamination issues with high particle counts and water contamination.

#### *Solution*

Mike Carter, LE lubrication consultant, recommended installing Xclude desiccant breathers. Ring Container installed the breathers on all six hydraulic reservoirs associated with the Liberty RSI 3500 blow mold machines. Each machine has a hydraulic reservoir of 210 gallons as well as a separate 40-gallon reservoir for the machine programmer. They change the breathers every three months.

#### *Results*

Rigid adherence to the maintenance schedule has resulted in significant improvement in both particle count and water contamination in all six reservoirs. (See next page.)





### ***Oil Analysis Report***

According to the results of oil analysis reports, the particle count in the worst case, Unit 1H Programmer, was 22/21/17 and was reduced and held at 15/14/11 or better. Water by Karl Fischer result was reduced from 680 ppm to 88-194 ppm.

A reduction in particle count from \*/20/17 to \*/14/11 shows that Ring Container can expect a life extension of its hydraulic systems by a factor of five times. No major pump failures have occurred since converting to LE's Equipower™ Ultra Hydraulic Oil (6168) and maintaining the Xclude breathers. If there had been any failures, it would have cost approximately \$4,500 for a new hydraulic pump and \$12,500 for a new programmer pump.

*Thank you to Ring Container's Gene Secrest, maintenance manager, and to Mike Carter, LE lubrication consultant (pictured), for providing the information used in this report.*



Xclude® is a registered trademark and Equipower™ is a trademark of Lubrication Engineers, Inc.

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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.