

Case Study

TRUFAST PLANT OPERATIONS



Reduced Maintenance Intervals & Costly Oil Changes

Cost, Time, Maintenance Hours and Environmental Waste were Decreased

TRUFAST is an ISO 9000 manufacturer of construction fasteners producing products with exacting accuracy, quality and precision. Always looking for ways to improve their maintenance process and reduce costs, they allowed NTZ to run a study integrating micro filtration into their screw machine maintenance program.

As part of their maintenance program, TRUFAST was finding that they needed to service their screw machines every 2-3 weeks (every 350 hrs). This maintenance involved labor hours, oil purchases, machine downtime, disposal costs (very high) and factory installed suction filters.

The NTZ study proposed extending the current maintenance interval 3-4 times by filtering the fluid to a lower ISO code using micro depth filtration. By utilizing depth filtration in everyday procedures, we extended the life of the oil and limited machine wear. (Extended need for maintenance from every 2-3 weeks to 8-12 weeks.)

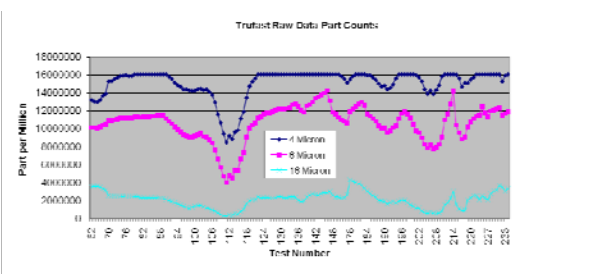
Utilizing calibrated particle counting equipment, the oil cleanliness level was monitored throughout the study to ensure no service interruption to the manufacturing process during the study.

At the start of the test, a fresh oil change was performed and the cleanliness rating of the oil was recorded. The oil cleanliness was maintained at the same level for **more than 1250 hours** by adding micro filtration into the maintenance program!

**Micro Filtration Technology—
Removes Harmful Smaller Contaminates,
Extending Oil Life and Reducing Machine
Wear**



The study results concluded that the micro filtration system was able to extend the maintenance interval from every 2—3 weeks to every 8—12 weeks, beyond normal servicing, without any affect on system performance.



Study Details	
Equipment:	Screw Machine
Fluid:	Briner 68 Cutting Oil
Length of Study:	1250 Hrs
NTZ Filter:	Installed OLFS 58 with Glass Fiber Element
Return on Investment:	6 months - 1 year
Oil Life Extension:	350 hrs to 1250 hrs at same cleanliness level
Normal Maintenance:	Every 2-3 weeks, 350 Hrs
New Maintenance:	Every 8-12 weeks, 750—1250 Hrs