

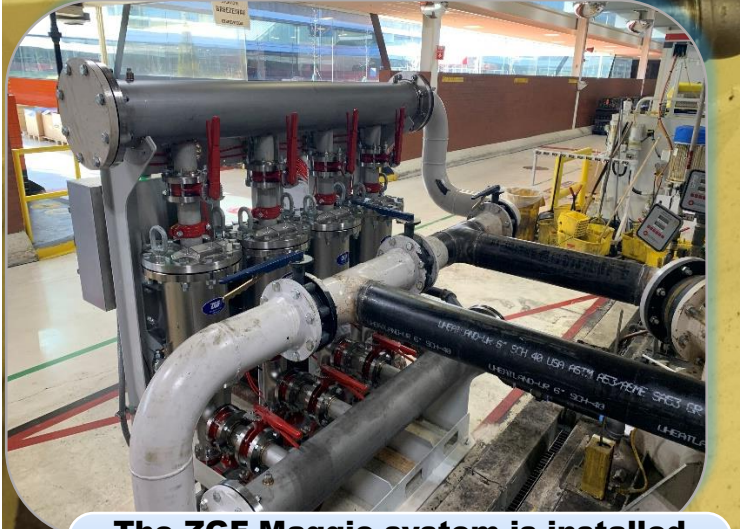
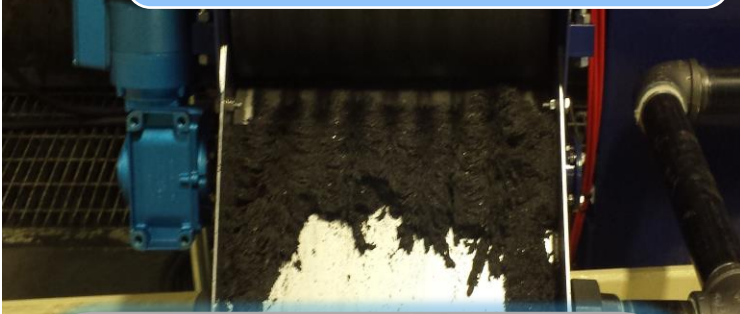
# Truck Engine Manufacturer Implements Patented ZGF Maggie technology on Engine Block Washer - Prevents Nozzle Plugging and Provides Consistently Cleaner Parts



Metalworking / Part Washing



**ZGF Maggie MG2600, 4-Station with Smart Drum PLUS fluid recovery system rated at 1,000 gpm**



**The ZGF Maggie system is installed downstream of the primary vacuum filter and removes all the metal fines not capture by the vacuum filter.**

## **Customer Challenge:**

Part cleanliness is becoming more critical than ever because it has been determined that contaminants left on powertrain components prior to assembly can ultimately lead to warranty issues.

A manufacturer of truck engines had a conventional vacuum filter with a drag assembly installed on an engine block washer. The filter could not efficiently or effectively remove the fines from the wash solution which led to plugged spray nozzles and poor part cleanliness.

When block cleanliness deteriorated, production was halted, and maintenance personnel would clean and / or replace the spray nozzles and associated distribution piping.

The current process was neither consistent, reliable, or cost effective.

## **Our Solution:**

ZGF installed a full flow Maggie system downstream of the existing filtration and directly in line to the spray nozzles.

The Maggie system is a fully automatic magnetic separator that requires virtually zero maintenance and capture most ferrous particles 5 micron and larger and will also capture sub-micron particles.

## **Results:**

- ❖ The Maggie system is capturing and removing as many or more fines than the upstream vacuum filter / drag assembly.
- ❖ Maintenance no longer cleans and / or replaces spray nozzles and associated distribution piping.
- ❖ The block washing operation is consistent and reliable. **Part cleanliness routinely meets the cleanliness specification.**
- ❖ **Productivity has increased and Operating Costs have been reduced.**