

Introduction Information

Client : Automotive

Products : Carrier, Knuckle

Machine type : Machining Center

Contamination material : Casting

Coolant type : Water-soluble cutting oil (Emulsion)



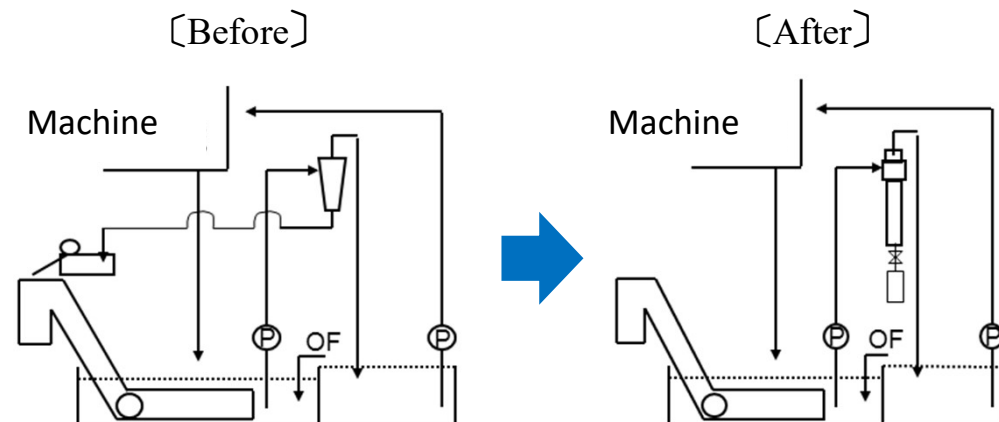
Problem and Effectiveness

Small particle sludge mixed with coolant for washing tools when they are exchanged. A shaft gap was produced by sludge which caused defective products. The shaft gap disappeared after installing the FILSTAR and the defective parts processing fell to zero.

Flow chart information

Cyclone filter and Magnetic separator were installed before the FILSTAR was introduced.

Removed cyclone and Magnetic separator and installed the TK Filter with a drain cup to easily dispose of the contaminants.



Introduction Information

Client : Automotive
Product : Differential Case
Machine type : Machining Center
Contamination material : Aluminum
Coolant type : Water-soluble cutting oil (Emulsion)



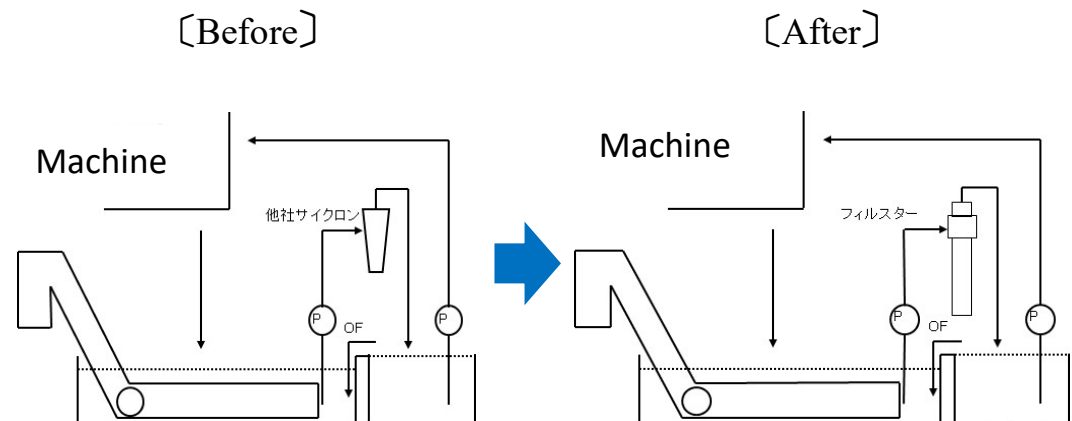
Problem and Effectiveness

Filtration quality was poor by the existing cyclone, and a malfunction occurred at the time of screw processing. In addition, it was necessary to clean the sludge sediment in the tank once a week.

After the FILSTAR installation, malfunctioning of the screw processing became approximately 0, the tank cleaning was reduced to half, and personnel expenses were reduced.

Flow chart information

Cyclonic filter was installed previously without success.
Removed existing cyclone and installed the TK Filter and a drain cup.



Introduction Information

Client : Automotive

Product : Valve Body

Machine type : Washing Machine

Contamination material : Aluminium

Coolant type : Washing Liquid



Problem and Effectiveness

Existing cyclonic filter efficiency was poor causing a secondary filter to be exchanged once a day. The poor filtration efficiency caused the washing machine tanks to be cleaned about once a month. The washing liquid improved cleanliness by about 40%, as well as significant reduction in maintenance for exchanging the secondary filter once every three months. This greatly reduced the cost of operating the machines.

Flow chart information

It had a cyclonic filter with secondary media filter.

Removed the cyclonic filter and replaced it with the TK Filter.

[Before]



[After]



Introduction Information

Client : Automotive

Product : Cam Shaft

Machine type : Grinding Machine

Contamination material : Casting

Coolant type : Water-soluble cutting oil



Problem and Effectiveness

Filtration efficiency was poor, causing a secondary filter to be changed and for the tank to be cleaned monthly. Collection of the sludge improved more than 80% and fixed the blocking of the second filter and was able to reduce the running cost.

Flow chart information

It had a magnetic separator, cyclonic filter and 2 secondary filters. Removed existing cyclonic filter and replaced it with the TK Filter to use it with the secondary filters.

