

Electrostatic Charge & Oxidation and Internal Corrosion are caused by
Conventional Off-Line Filter During Oil Filtration – Hidden Operational Failure

Rust & corrosion built-up inside servo valve showing on paper towel rust deposit. This is caused by electrostatic charge from on-line filter media.

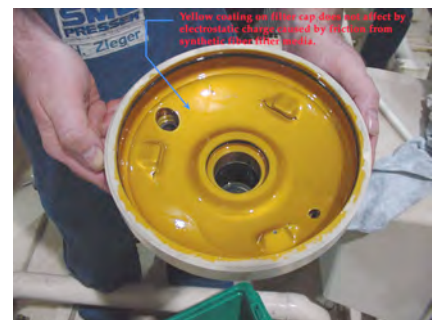


Internal spring in servo valve shows surface paint stripped out due to internal hydraulic system corrosion.



Typical hydraulic oil filter with less than 6 micron size, usually made of synthetic fiber material for better particulate retention. These **synthetic fiber materials** cause excessive friction when oil is passing through filter media. Oil carries **Free Radicals** with negative charge while metal surface of hydraulic components is acting as positive charge during the hydraulic power transmitting.

This generates **electrostatic charge** in the oil and **oxidation** reaction which leads to **internal hydraulic system corrosion**.



6 Micron Off Line Filter contains synthetic fiber media causing oil friction and electrostatic charge.



Electrostatic Charge on Filter Housing Metal Surface

