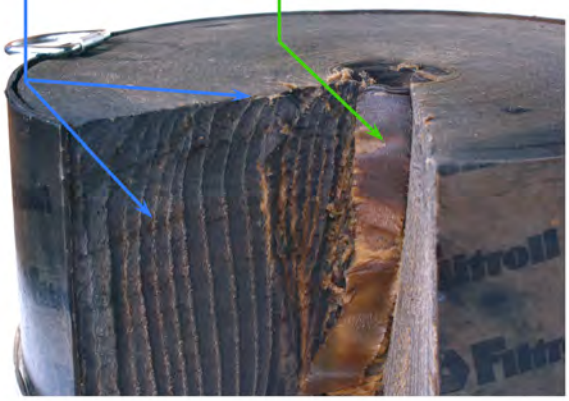
Toilet Paper Filter Evaluation for Hydraulic Oil Filtration

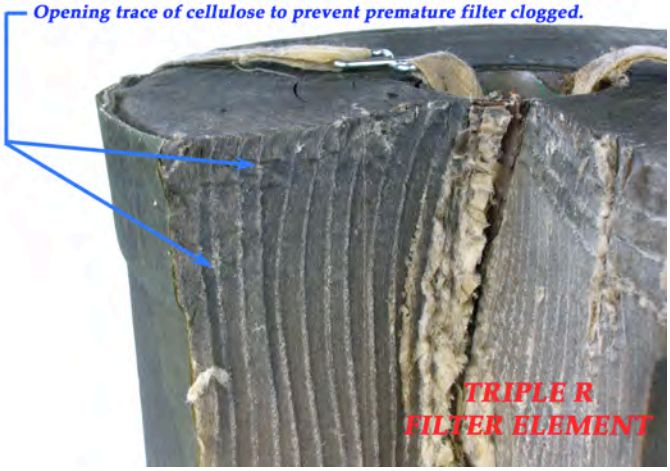
OILPURE SYSTEMS
The Machine Reliability Company

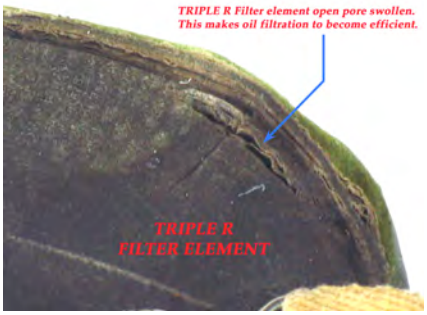
Filtroil Filter Element V.S. Triple R Filter Element

Toilet Paper Filter Style for Hydraulic Oil



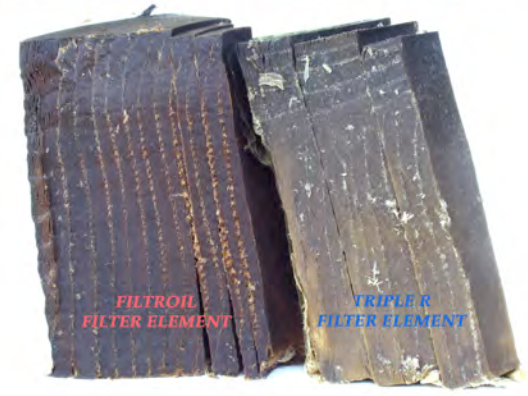
TRIPLE R Filter element uses small cellulose fiber to trap samll particulate. This can easily cause the media swollen when water ingression and high oil pressure surge.





*This type of filter is good for small low pressure hydraulic operation. High speed large hydraulic system generates tremendous amount of surface component heat that has **negative effect on servo or proportional valve behavior**. This toilet paper filter type is **unable to remove oil oxidation** and low in dirty holding capacity. This filter uses oil pressure from hydraulic manifold to force dirty oil through filter element with pressure regulator down to 40 psi. Each hydraulic cycle time, oil pressure surges from hydraulic operation of 3,000 psi to 40 psi in seconds within filter media. **This pressure surge causes poor filtration efficiency** in removing minute solid particulate.*

FILTROIL V.S. TRIPLE R Filter element comparison for dirty holding capability.
FILTROIL can hold larger particulate while TRIPLE R is good in trapping small particulate.



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