



# RAILROAD FILTERS

# RAILROAD LUBE FILTERS

Filtration Systems' patented "Swirl Flow" technology is a breakthrough in depth filter design, providing exceptionally long life, high efficiency, and low restriction to flow.

Our high-flow railroad lube filters have been used for years in demanding conditions, often over mountainous terrain. They consistently last a minimum of 3 months, and often 1/2 year, between filter change-outs.

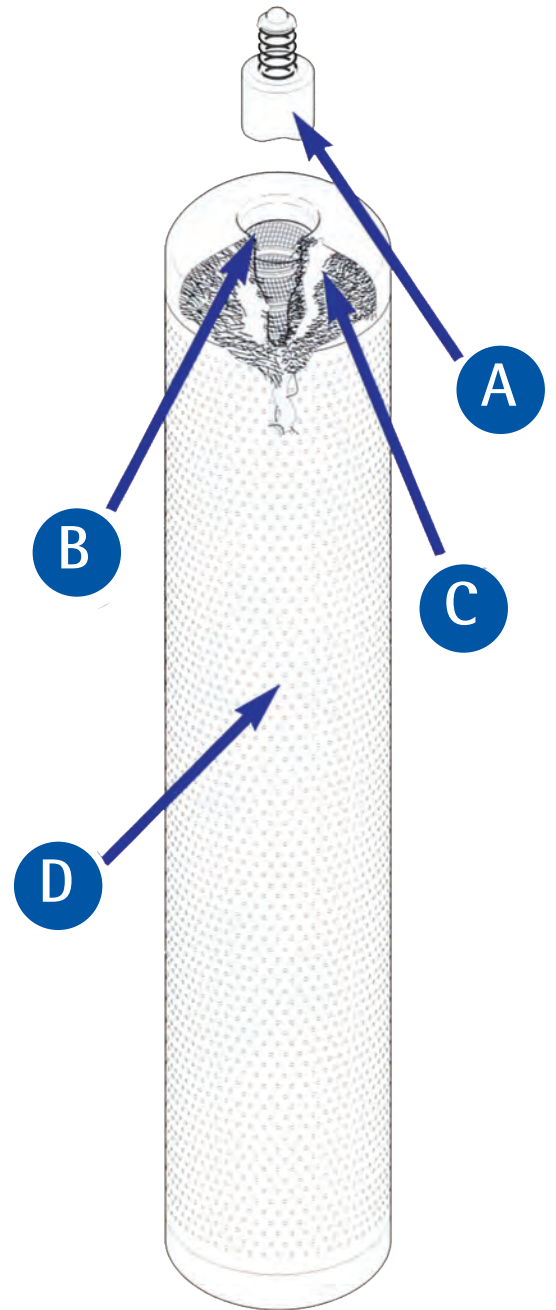
We have manufactured hundreds of thousands of railroad lube elements, protecting locomotive engines worldwide, with the best value in the industry.



*Cotton's fine fiber diameter and oliophyllic properties make it an ideal medium for hydrocarbon filtration. We use only natural cotton fibers (not textile waste) in our products*



*Wood absorbs water and acids (extending lube oil drain intervals) and improves the filter's flow characteristics. Our wood is grown and processed here in Wisconsin, for excellent cost control.*

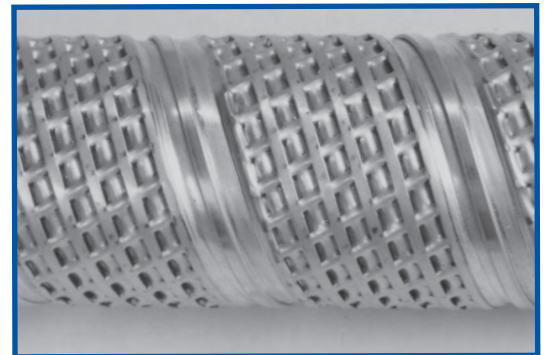


**A** Different end-configurations assure direct interchangeability with EMD, G.E., Alco and Bombardier locomotives.

**B** High-strength spiral lockseamed center tube prevents collapse. Easily removed and recycled. Made in-house for cost control.

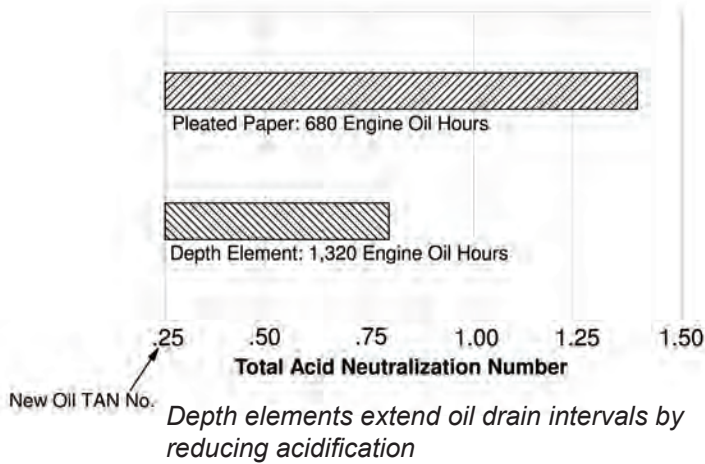
**C** Our patented "Swirl Flow™" media, the secret to long service life. Only available from Filtration Systems, an exceptional value!

**D** Outer perforated wrap for flow diffusion. The filter has no side seams or end caps.

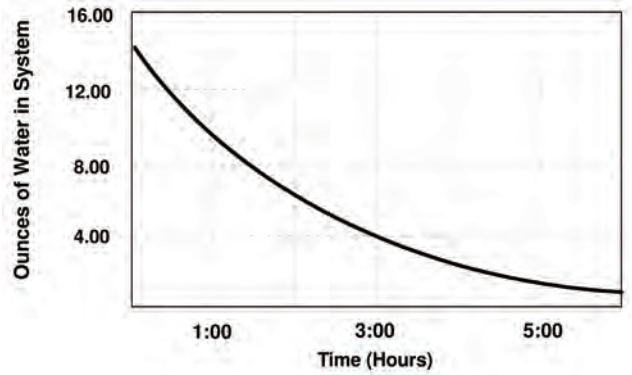


*High-Strength Center Tube*

## Acid Control

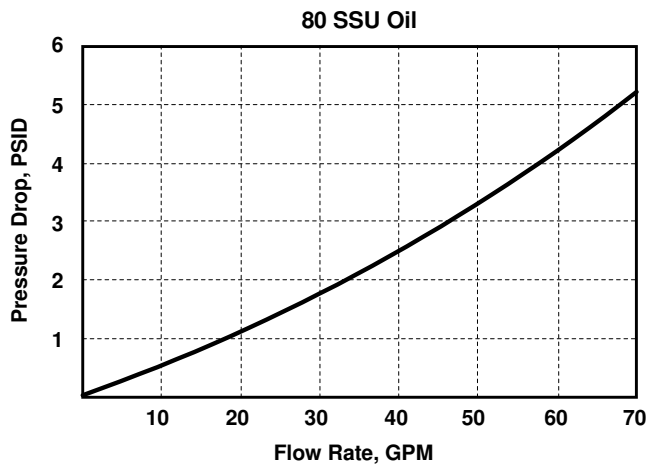


## Water Removal



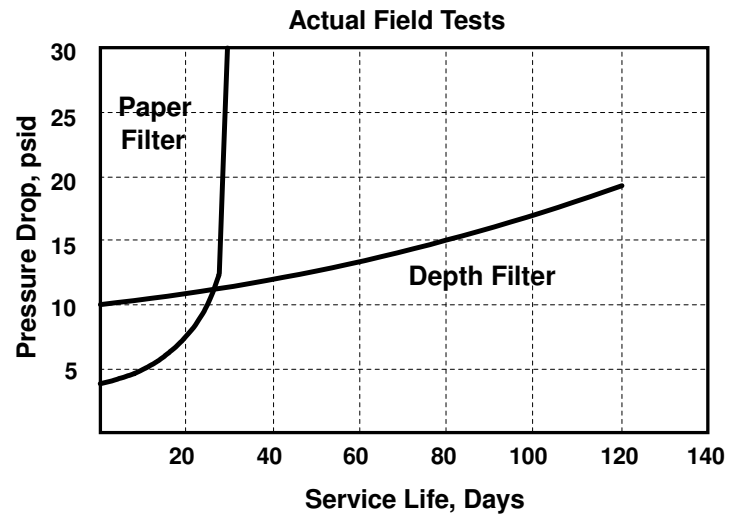
Depth elements remove water from oil reducing acid, varnish & sludge formation

## Flow Curve



Filtration Systems' railroad lube elements have low flow restriction

## Life Curves



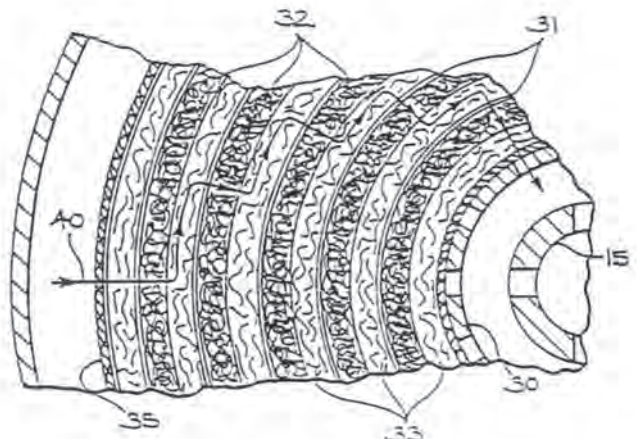
Our depth filters have much longer life than competitors' pleated elements

## SWIRL FLOW™

Filtration Systems' patented "Swirl Flow™" depth elements are a dramatic break-through in filter technology.

By alternating layers of low and high density media, and balancing the ratio of circumferential to radial flow, the media layers progressively load with dirt, like peeling an onion.

The result is an incredibly long-life filter, designed for reliable performance at low cost.



U.S. Patent, July 3, 1990  
4,938,869

## APPLICATIONS AND CROSS REFERENCES:

<b>61017</b>	Interchanges with EMD part number 8345482. Also Clark C-12 and C-24
<b>61018</b>	Interchanges with Alco (Bombardier) part numbers 16011911 and 2390702. Also Clark C-18
<b>61208</b>	Interchanges with G.E. part number 2X4222. Also Clark C-41 and C-52.



*NOTE: Filtration Systems' "Swirl Flow™" depth filter elements are designed for use in engine lube oil applications only. Please call factory for recommendations regarding fuel or air filtration requirements.*



ISO 9001:2000



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