"Frequently Asked Questions"

How does your by-pass design function?
The by-pass valve is made up of the nitrile valve and the threaded mounting plate. In a normal operation, the oil flows into the outer ring of holes on the mounting plate, through the filter element and out the threaded hole to the engine. If the filter were to become plugged, or during cold start, the oil would flow through the inner ring of holes, displacing the rubber seal, and then flow out the threaded hole to the engine.

How is it packaged?
The filters are either individually boxed or bulk packed into a wrap-around case.

Is the performance better, the same or worse than conventional filters?
The E-core filters were designed to out perform conventional oil filters of similar construction.

What type of filter media do you use?
Our standard product line utilizes a resin impregnated, cellulose media.

The filter is shorter, why? Does that mean there is less capacity?
Several of the filters are shorter than their previous replacement. That does not mean the filters have less capacity. The E-core filter design eliminated the use of metal end caps and the adhesive used to pot the media. This allows utilization of .25" more media that was previously imbedded in the adhesive. This allowed us to shorten the filters and keep the square inches of media the same as previous constructions.

Does it weigh less?
Yes, the E-core filters do weigh less than the previous construction. This is due to the elimination of metal end caps and the adhesives used to adhere the media to the end caps.

Does this new design meet all of the original equipment requirements?
The Ecore filter design meets all engine requirements. Structural and filtration requirements are equal to or greater than our previous designs.

What is the micron rating? See chart below.

What is the efficiency of your filter on a single pass and a multi-pass test?

	SAE HS-806	**SAE J1858**
Typical Size	Single Pass 10-20 µ	Multi-Pass @ 20 µ
	96%	94%
Media	9668	9668

"Frequently Asked Questions"

What is the maximum flow rate of your new filter design?
The nylon core on the Ecore design contains more open area than the perforated steel core. This results in less flow restriction across the element assembly.

What is the burst pressure?
Burst pressure for all Ecore filters exceed OEM requirements and are equal to or greater than previous designs.

Is the plastic center core as strong as the metal core that was used in the past?
Yes, the glass filled nylon core is stronger than the steel core it replaces.

How does the quality of your filter compare with other manufacturers'?
The Ecore filter is equivalent to or better than all leading manufacturers.

How does your new valve design react to heat?
The new combination valve has been tested at temperature extremes including the peak temperatures developed during high speed European driving, without failure.

Are all your filters being changed to this design?
The 11 most popular filter designs have been redesigned into the Ecore construction. Additional filter configurations will migrate to this configuration over time.

Why are there extra holes in the threaded plate?
The inboard ring of holes is a portion of the relief valve mechanism. The outboard ring of holes is the normal oil inlet holes.

The threaded part of the filter is thinner than what it was in the past. Does it have the same strength?
Yes, burst and pulse results are improved over the previous designs.

Why did you switch from metal to fiber end caps?
In order to make the Ecore design more environmentally friendly the metal end caps and adhesive were replaced by the thermally bonded non-metallic end caps.

What is the recommended drain interval?
Consult your owner's manual for recommended change intervals. Our recommendation is 3,000 miles or 3 months.

Is there a cap wrench available for your filters?
Yes.

Why is it "environmentally friendly?"
The Ecore filter is much easier to recycle due to the easily separated waste streams. Once the filter is cut open and the element crushed the waste streams can be separated into steel, oil, and parts to incinerate.

Should you have questions concerning this bulletin or the new Ecore spin-on oil filter design, please call Champion Laboratories, Inc. at 800-882-0890.