

# TECHNICAL BULLETIN



Subject: **Ecore Filter**

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Champion's introduction of the new Ecore spin-on oil filter design is the most exciting innovation in the filter industry in many years. To assure a successful product launch, Champion conducted application field tests for nearly two years prior to releasing the Ecore construction for production. Those field tests revealed no application or normal service condition that would prevent the Ecore style filter from performing satisfactorily.

Why is Champion's next generation spin-on oil filter design important for the filter industry? The new Ecore Advanced Technology Design delivers a superior performing filter with the following key performance characteristic improvements vs. traditional designs:

- Increased filtering efficiency
- Higher element collapse strength
- Higher rolled seam burst strength
- Improved oil flow characteristics
- Promotes recycling

## Important Notes Regarding the New Design

Although the reverse extrusion Ecore back plate design is significantly different from the previous filter, it is not unique. Many heavy duty and light duty filters, both Original Equipment and well known aftermarket brands, as well, have successfully utilized this same engineering design concept for many years.

Even though the back plate design has changed, the installation procedures have not. To insure normal oil filter service life and prevent oil leakage, it is important to review the established spin-on oil filter installation procedures and be certain that these procedures are correctly followed.

1. Remove the old oil filter and thoroughly clean the mounting base.
2. Apply a light film of clean oil to the sealing surface of the new filter gasket.
3. **Make sure to properly align before engaging threads.** Screw the filter on carefully, avoiding cross-threading.
4. After the filter gasket contacts the mounting base, tighten the filter per the instructions found on the filter. **DO NOT OVER TIGHTEN.**
5. Start the engine and check for leaks.
6. Dispose of the used oil and filter properly.

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.