



# TECHNICAL BULLETIN APTB-03/09

## 6.0L Ford Oil Filter Information

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When 6.0L engines were first introduced in 2003, the oil filter center post on F-Series truck engines was a non-spring design (figure 1); in 2004 the design was changed to a slightly longer post surrounded by a spring (figure 2). The center post on E-Series engines has always been a longer post with spring design. The overall height of the original equipment filter element (PF L2016) is unchanged (7.1") for all applications.



Figure 1 (2003 F-Series)

Figure 2 (2004-2007 F-Series)

DSDs should be aware that some aftermarket filter vendors (e.g., Napa and Wix) offer oil filter elements with three different dimensions for various 6.0L applications (i.e., 2003 F-Series, 2004-2007 F-Series, and E-Series), and compensate for the difference by using different cap dimensions for the 2004-2007 F-Series and E-Series filters. Dimension details are listed below:

Application	Product	Napa P/N	Wix P/N	Element Height (")	Racor (OE) Element P/N	Element Height (")	Racor (OE) Replacement Cap (as required)
2003 F-Series	Element only	FIL 7311	57311	7.1	PF L2016	7.1	RK 31821
2004-2007 F-Series	Element/Cap Assembly	FIL 7312	57312	8.203			
2004-2009 E-Series		FIL 7313	57313	8.153			RK 32138

**Warning:** A misapplication of aftermarket filters resulting in poor lube oil filtration could damage the 6.0L high pressure oil circuit, including injector failure, in addition to the potential for other engine damage. We know of at least one possible misapplication using aftermarket filters that resulted in virtually no oil filtration and there are very likely more: it is possible to install the aftermarket element/cap assembly that should be applied to 2004-2007 trucks (long post with spring) on a 2003 truck (short post without spring); the >1" element height difference leads to the bypass valve never sealing. We can also speculate about similar negative consequences if a Racor element is installed with an aftermarket cap (the old element is hard to get out of an aftermarket cap, but with perseverance, it is possible).

In addition to the benefits of using original equipment filtration, to eliminate the possibility of an application error we once again suggest installing Racor element PF L2016 in all 6.0L applications, and if the existing cap is not original equipment, install the appropriate Racor replacement cap (refer to table above).

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