

# TECH TIPS

## FILTERS WITH INTERNAL SEALS

### Installation Instructions for BD7153, BD7154, BD7250 and BD50000 Heavy-Duty Lube Filters.

When installing a heavy-duty lube filter, especially those used on vehicles in demanding, high pressure or high vibration environments, it is important to follow the recommended installation instructions. A properly installed filter will not only keep the oil flowing; it will also prevent leakage caused by the filter loosening or the gasket displacing.

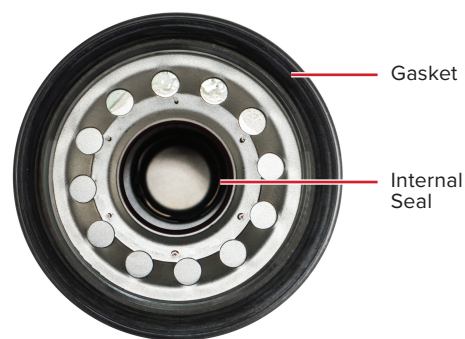
Gaskets help to seal the filter in place. The amount of additional turns needed to give the best gasket compression for that filter, is shown on the installation pictogram (see step 4).

In addition to the gasket, some filters may also feature an internal seal, which seals the filter element to the post on the filter mounting base. The internal seal ensures a positive seal between the clean side and the dirty side of the filter element. When installing, it is important to remember to oil both the gasket and the internal seal (see step 2).



#### Installation tips for these filters are as follows:

- 1. Clean base.**  
Remove old filter and gasket. Wipe filter mounting base with clean cloth.
- 2. Apply clean oil to gasket and internal seal.**  
Apply thin film of clean motor oil to new filter gasket and internal seal. *Do not use grease.*
- 3. Hand tighten to gasket contact.**  
Position filter to engage the threads. Hand tighten until gasket contacts filter mounting base.
- 4. Tighten additional turns.**  
Tighten an additional  $\frac{3}{4}$  turn after gasket contact. *Make sure gasket contacts filter mounting base before tightening additional  $\frac{3}{4}$  turn.*
- 5. No leaks.**  
Refill engine with recommended motor oil. Start engine and check for leaks. Add oil if necessary.
- 6. Inspect for dents.**  
Important – Do not use filter if it is dented.



**Note:** A thin layer of clean motor oil must be applied to the gasket and internal seal before installing the filter. Applying oil to the internal seal will allow the internal seal to slide onto the post on the filter mounting base.

**WARNING:** These products can expose you to chemicals, including Diisononyl Phthalate, Carbon black extracts, Nickel, 1,3 Butadiene, Ethylene Oxide, Epichlorohydrin, which are known to the State of California to cause cancer, and Bisphenol-A, Ethylene Glycol, Ethylene Oxide, 1,3 Butadiene, Epichlorohydrin, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).