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EVO: Oiling & Lubrication - Sub-03G

Comparing the 03-06 and the 07 Style Oil Pumps

- Below is a collection of comparison pics between the (98-06 style pump) and the (07 and up style pump). Click on a pic to enlarge.
- The 98-06 pump and internals are all the same except for these [known differences](#).
- For the purpose of the following illustrations, the 98-99 pump is shown below but the only visual difference from it and the 2000-2006 oil pump is the bottom cover (which is also the feed cavity) and the front fitting that runs to the oil filter. The gerotors and internal components are the same from 98-06.
- The main feature with 07 and up pump is the larger scavenger gerotor action with wider teeth allowing to move more oil at the same speed from the sump.
- Dimensions shown below are approximate. The 98 pump shown below is used with some probable wear. The intention is to show major differences in the two pump versions only.
- See also [Images of 07-later Buell Oil Pump - 26357-02B](#) which is the same pump as the 07 XL pump but with different oil line fittings.
- The outside of the pump bodies are visually the same except the 07 is slightly taller and the bottom cover has different casting numbers.



98 and 07 oil pumps ¹⁾



98 and 07 oil pumps ²⁾



98 and 07 oil pumps ³⁾

- Necks are the same height from the top of the pump body to the pump gear. The pump body on the 07 is app. (.018") taller.



98 and 07 oil pumps ⁴⁾

- Scattered parts show visual internal differences. See also dimensions below.



98 and 07 oil pump internals ⁵⁾

- The 98-06 pump body has two bumps inside to hold the separator plate in place with 2 separate

bores for the two different O.D. gerotors.

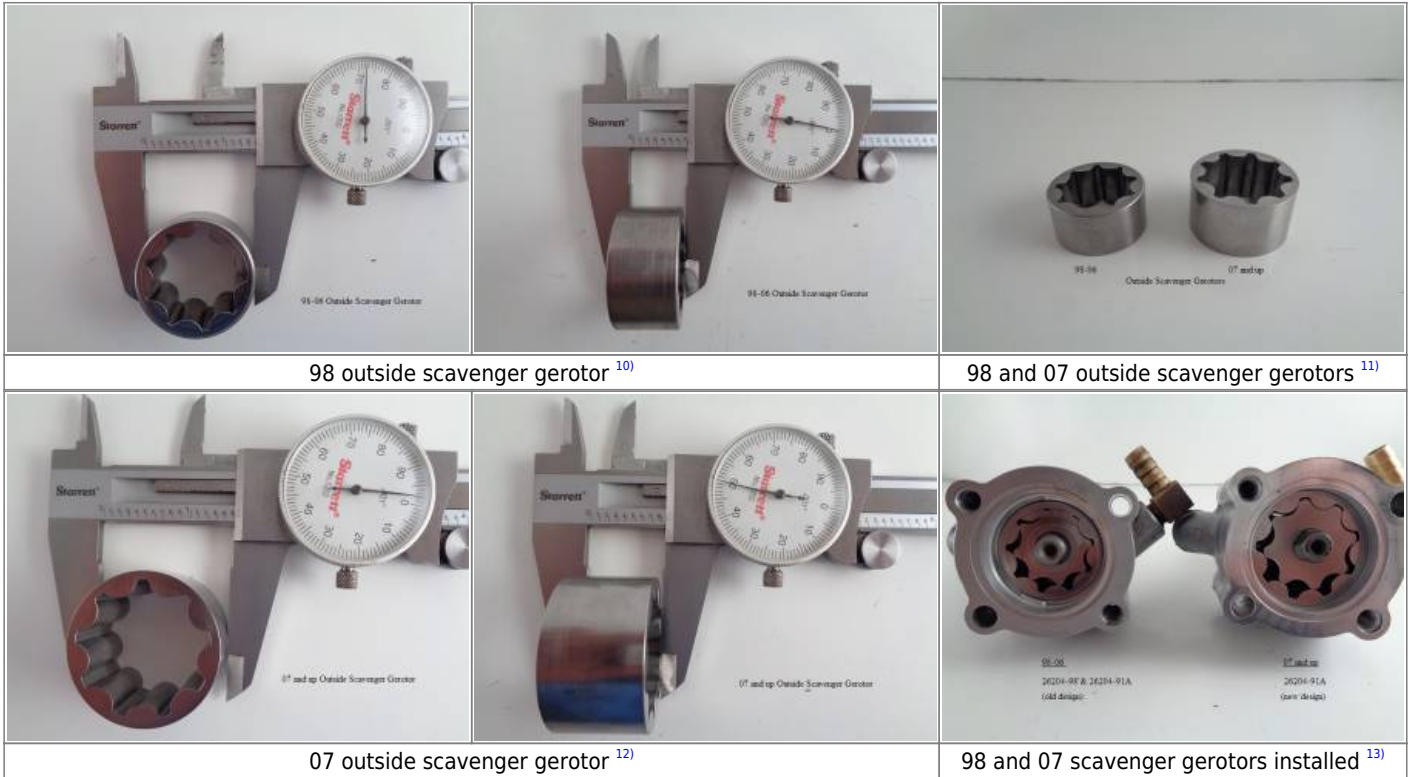
- 07 and up doesn't have the bumps for the plate and has a single bore for both gerotor sets.
- The return slots inside the 07 pump body above the scavenger gerotors have been enlarged and the feed cavity in the bottom cover is also bigger than the 98-99 cover.



- The 07 scavenger gerotor set is larger in diameter and taller than the 98-06.
- The inside scavenger gerotor is app. (.137") larger in dia. and app. (.150") taller.



- The 07 outside scavenger gerotor is app. (.127") larger in dia. and app. (.150") taller. The gear shaft was made longer for the taller body casting / gerotors and the scavenger gerotor sits closer to the bottom of the 07 pump.



- The 98-06 separator plate is constructed to remain still while the gerotors turn and held in place by small castings in the pump body. It has an offset hole (installed only in one direction) to properly mate to the standard non-centered gear shaft.
- The 07 separator plate is app. (.040") larger in dia. (now no shelf to sit against) and app. (.050") thinner than the 98-06. It also has a larger hole in the center to allow it to spin free around the standard non-centered gear shaft.





07 separator plate ¹⁶⁾



98 separator plate ¹⁷⁾

- The 07 feed gerotor set has a larger I.D. while utilizing the same O.D for each version.
- The 07 inside feed gerotor is larger in dia. by app. (.137") but also thinner by app. (.064") than the 98-06.



98 inside feed gerotor ¹⁸⁾



98 and 07 inside feed gerotors ¹⁹⁾



07 inside feed gerotors ²⁰⁾

- The outside feed gerotors on both versions are the same O.D.
 - However, the 07 version is cut with less meat on the inside walls to accommodate the larger inside gerotor.
- It's also app. (.064") thinner than the 98-06 version.



98 outside feed gerotor ²¹⁾



98 and 07 outside feed gerotors ²²⁾



07 outside feed gerotor ²³⁾



98 and 07 feed gerotors installed ²⁴⁾

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