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SERVICE ADVISORY

Date: October 7, 2008

Advisory SV2009-3

Subject: Oil Filter Removal

There have been reports from the field regarding the Pennzoil PZ3 oil filters being difficult to remove during the first oil change.

The filters are installed here at Indmar after the engines have been painted. A “dummy” filter is installed before the paint process to keep paint from the gasket sealing surface on the engine block. The filter gaskets are lubricated and the filter is installed and tightened with a special torque wrench to a tightness of 17 inch pounds which is equivalent to $\frac{3}{4}$ to 1 turn of the filter after gasket contact. The engines are then filled with oil, run and packaged for delivery to our customers.

We believe that many of the removal issues are related to the lack of access to the filter in the boat. Using a strap type removal tool in these applications many times results in pulling up on the handle instead of a straight horizontal pull. This results in bending or kinking the filter can leading to a crushed filter with nothing to grab on to. Once the can crushes it is extremely difficult to remove the filter. Removing a crushed oil filter can is not an Indmar warrantable defect.

We have found that the best removal tool is a cup type tool that fits over the flutes on the bottom of the filter. The PZ3 filter requires a 93 mm tool for a filter with 15 flutes. These cup type oil filter tools are available at many auto parts stores or automotive tool distributors. Using this type of tool results in the proper application of force at the strongest part of the filter can which should result in easier removal of the filter.



Cup Type Filter Removal Tool