

TO: SERVICE MANAGER  MECHANICS   
PARTS MANAGER

No. 86-31

**A. Hi-Performance Engine Oil Temperatures**  
**B. Engine Alignment Tools**

**A. HI-PERFORMANCE ENGINE OIL  
TEMPERATURES**

It has come to our attention that some dealers and boat owners are installing extra oil coolers on Hi-Performance engines. This practice may be detrimental to engine life as oil dilution may result. If oil dilution results premature bearing and/or cylinder wear may take place.

It is normal for oil temperatures to be in the 250 degree to 280 degree F (121-138 C) range, measured in the oil sump, during or immediately after a hard run. The only time any thoughts should be given to adding oil cooler

capacity is if the engine is used in such an application that oil temperatures reach or exceed 300 degrees F (149 C).

**IMPORTANT: Taking oil temperature readings any place on the engine block besides the oil sump will give inaccurate readings. The temperature sender must be located in oil sump.**

**B. ENGINE ALIGNMENT TOOLS**

The MerCruiser Service Department has received information that some boat builders and dealers are using competitive engine alignment tools on MerCruiser stern drives. This practice can cause improper engine alignment and premature engine coupler failure. MerCruiser recommends the use of our engine alignment tool 91-57797A3 only.