R2800 R3600 ADVISORY

ADVISORY LEVEL: General Info
DESCRIPTION: Correct Use Aux. Electric Oil Pump
ENGINE TYPE: R2800 & R3600
Operation: Scavenge excess oil.
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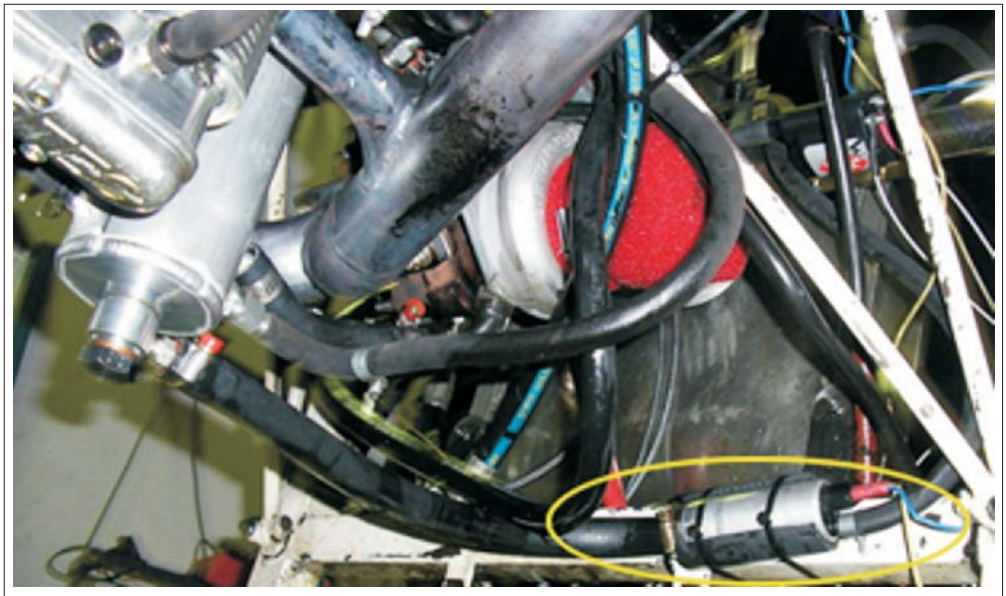

The auxiliary oil pump is installed between the mini-sump and the oil tank

WARNING #1

The pump does not eliminate Hydraulic Lock.

*It is an **aid** to removing excess oil.*

How to use the Auxiliary Oil Scavenge Pump:

Its function is to remove excess oil quickly and efficiently on landing or after prolonged standing.

1st make sure the oil lines are installed as shown: http://www.rotecengines.com/Support/Important/OilFlowSchematic.pdf

The procedure:

On landing the oil will be warm and will flow quickly.
The pump is turned on whilst the engine is idling for about 30 seconds (or during taxi into position).
On ignition off keep the pump on and listen for oil cavitations.
Once heard switch the pump off.
After a few minutes switch the pump on again and again listen for cavitations... repeat several times
It is recommended that the pump is also run prior to the next flight.

The pump's use is not to be considered as a solution for hydraulic lock (HL) issues!

At all times keep an eye on the oil tank level. With the auxiliary pump in use do not start the engine unless the tank is at the recommended levels for each engine. It is important to understand that the recommended oil levels are established without the use an auxiliary oil pump in which case there is approximately 2.5 litres of additional oil in the engine. With the use of the pump the bulk of the 2.5 litres is returned to the tank. On the next start approximately 2.5 litres will be needed to fill the engine - with a low level in the tank to start with there is a greater possibility of starving the engine of oil.

Specification:

USE: Continuous or intermittent to Scavenge oil (can be used in turbo applications).

Max working temp 150 degrees C (302 degrees F)
Capacity 160 Litres/hr (35 UK Gal/hr or 42 US Gal/hr)
Works at 4 Bar pressure (58 pound/square inch)
12 Volt operation at 15 ohm.
The inlet diameter is 15mm (0.59") and the outlet is 8mm (0.315").