**SETTING KAWI PUMP GPM AND ROTATION SPEED**

1. Install new rotation motor with shim pack on the min displacement stop
2. Prime new motor with hyd oil in the case drain port till oil leaks out before installing jic fitting. Stick reflective sticker to outside of chuck on a clean surface.
3. Wind in displacement screw on kawi pump till 3 threads are showing between the end of the set screw and the nut. (30mm wrench and 10mm allen wrench)
4. Warm up engine to operating temp and run feed cyls to warm up hyd oil. Put rotation transmission in 4th gear.
5. With swash cartridge wound out and engine rpm at full throttle, rotate head and slowly wind swash in with a helper checking head speed with a phototach to make sure not to overspeed the head. (if head rpm is over 1200 rpm before hitting full swash turn KAWI displacement set screw in)
6. Once at full swash, head should be rotating at an rpm lower than 1200 rpm. Wind the KAWI displacement setting out until head reaches between 1185 and 1190 RPM. This setting will allow the main pump displacement to be around 48gpm.

THESE SETUP INSTRUCTIONS SHOULD BE PERFORMED WITH THE RELIEF PRESSURES PROPERLY SET UP.

STAND BY PRESSURE AT 600-650PSI

MAIN RELIEF AT 4500

SPIKE RELIEF AT 5000

**NEW STYLE EATON MID AND END PUMP SETUP :**

**If pump settings need to be adjusted do as follows:**

**MID PUMP:**

-Install gauge tee off of the line going from the pressure filter to the valve body with a machete 5000 psi gauge

-at an idle adjust the upper setting on the mid pump to 550 psi (you will notice engine loads down if turned past 650.)

-cap line going to port A to deadhead water pump system.

-Run water pump lever and adjust the lower setting on the pump to 3000 psi. Clockwise to raise pressure and counter clockwise to decrease. (release handle pressure briefly between setting changes.)

**Caliper Settings – Compensator upper adjustment – 0.567”**

 **Compensator lower adjustment – 0.720”**

 **Flow (angled adjustment – 1.107”**

**END PUMP:**

- all settings are done at high idle with the mud mixer turned off

-turn in setting on end of pump compensator. (adjustment is on the top right side of the pump, leave setting on the center of the pump alone.)

-adjust setting on the float/fine feed valve bank to 3300 psi

- turn out pump compensator to 3000 psi and tighten jam nuts.

**Caliper settings – Compensator adjustment – 0.481”**

 **Flow angled adjustment – 0.492”**