

# Black Splitter Operating Checklist

- Machines auxiliary hydraulic lines must be bi-flow or two way flow. Any improper setting or malfunction in the bi-flow auxiliary lines may result in high pressure situation inside the motor that could potentially cause the motor seals to fail. In this case, the motor is not covered under warranty. If in doubt, have the machine's auxiliary hydraulic system checked by a professional and verified as properly functioning and within the hydraulic requirements of the Black Splitter motor type.

- Hydraulic Motor Requirements:

| <u>Black Splitter</u><br><u>Motor Type</u> | <u>Pressure</u><br><u>Bar / (PSI)</u> | <u>Hydraulic Oil Flowrate</u><br><u>Liters per Minute / (GPM)</u> |
|--------------------------------------------|---------------------------------------|-------------------------------------------------------------------|
| ○ 630 (S1)                                 | 180-230+/- (2,610-3,335+/-)           | 30-100 / (7.9-26 GPM)                                             |
| ○ 800                                      | 180-230+/- (2,610-3,335+/-)           | 50-200 / (13.2-52 GPM)                                            |
| ○ 800 + (S1X)                              | 180-370 (2,610-5,365)*                | 50-200 / (13.2-52 GPM)                                            |
| ○ SB                                       | 180-230+/- (2,610-3,335+/-)           | 50-220 / (13.2-58 GPM)                                            |

\*A motor case drain line connection is required for the 800+ motor

- Check that all bolts and fittings are tight before operation especially at the cone connection as it is not torqued down until there is pressure on the motor to keep it from spinning.
- Black Splitter uses robust compact reversible orbital motors, which are designed to withstand high axial and radial loads. Planetary gears are incorporated into the power extreme line including the model SB.
- As a precaution, always lift large / heavy timber with the Black Splitter positioned vertically to the ground and the cone centered in the timber.
- Do not exert force from the excavator onto the Black Splitter other than enough downward pressure to keep the timber from spinning. Let the cone do the splitting
- Initiate split at the far end of a log and work the cone back towards the machine for best results.
- As a precaution, when operating the model SB allow for pause between reversing the direction of the cone as excessive vibration can loosen the motor mount bolts and lead to leaking. This is easily fixed by tightening the motor mount bolts.
- In extreme cold conditions, it is recommended to warm up the machine with the Black Splitter running to avoid hot hydraulic fluid putting pressure on extremely cold / frozen motor O-rings.
- Read instruction manual prior to operation of the hydraulic attachment and contact your Black Splitter dealer if you have any questions or concerns.