

GROUP 2 BOOM AND BUCKET HYDRAULIC

Trouble	Probable cause	Remedy
Loss hydraulic power (No flow from charge and Implement pump)	<ul style="list-style-type: none"> · Reservoir low on oil · Universal joint between engine and pump failure · Implement pump not functioning · Implement pump shaft failure · Spline coupling between front and rear control pump failure 	<ul style="list-style-type: none"> · Check for leaks. Fill reservoir. · Inspect and replace damaged parts. Check for misalignment. · Inspect and replace damaged parts. · Inspect and replace damaged parts. · Inspect and replace damaged parts.
Loss of hydraulic power (Full flow from charge and Implement pump)	<ul style="list-style-type: none"> · Auxiliary valve spool engaged · Pedal linkage disconnected or bound · Relief valve failure or out of adjustment 	<ul style="list-style-type: none"> · Disengage. · Inspect and adjust or repair. · Check pressure and readjust or repair.
Hydraulic action jerky	<ul style="list-style-type: none"> · Reservoir low on oil · Pedal linkage worn or loose · Air in hydraulic system · Load check valve not functioning · Control valve spool spring return mechanism not functioning 	<ul style="list-style-type: none"> · Check for leaks fill reservoir. · Inspect and adjust or replace damaged parts. · Check for leaks between oil reservoir and pump. Bleed system by extending and retracting boom cylinders several times. · Inspect and replace damaged parts. · Inspect and replace damaged parts.
Boom raises slowly	<ul style="list-style-type: none"> · Reservoir low oil · Pedal linkage binding · Auxiliary switch engaged · Attempting to lift more that rated capacity · Engine RPM too slow 	<ul style="list-style-type: none"> · Check for leaks. Fill reservoir. · Inspect and adjust. · Disengage. · Reduce load. · Check engine RPM and reset

Trouble	Probable cause	Remedy
Boom raises slowly at full RPM	<ul style="list-style-type: none"> · Relief valve failure or out of adjustment · Oil bypassing on or both boom cylinder piston seals · Internal leakage in Implement pump · Internal leakage in control valve 	<ul style="list-style-type: none"> · Check pressure and adjust or repair. · Check piston seal for leakage and repair. · Test Implement pump flow and repair. · Inspect control valve and repair.
Boom hoist or bucket tilt cylinder will not support a load(Leak down)	<ul style="list-style-type: none"> · External leak between control valve and cylinders · Control valve spool not centering · Oil bypassing one or both cylinder piston seals · Internal leakage in control valve 	<ul style="list-style-type: none"> · Inspect and repair. · Check foot pedals for binding and repair. Check for damaged spring return mechanism on control valve spools. · Check piston seals for leakage and repair. · Inspect control valve and repair.
Hydraulic oil temperature light ON. Reservoir overheating	<ul style="list-style-type: none"> · Reservoir low on oil · Oil cooler plugged or dirty. Also check engine radiator · Auxiliary switch engaged · Engine RPM too slow · Engine cooling fan reversed · Relief valve failure or out of adjustment · Temperature sender switch defective · Wrong type of hydraulic fluid 	<ul style="list-style-type: none"> · Check for leaks and fill reservoir. · Clean cooling fins. · Disengage. · Check engine RPM and reset. · Check fan and install correctly. · Check pressure and adjust. · Replace. · Replace.