

GROUP 2 BOOM AND BUCKET HYDRAULIC

Trouble	Probable cause	Remedy
Loss hydraulic power (No flow from charge and auxiliary pump)	<ul style="list-style-type: none"> · Reservoir low on oil · Universal joint between engine and pump failure · Auxiliary pump not functioning · Loader control 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 auxiliary pump)	<ul style="list-style-type: none"> · Auxiliary valve spool engaged · Control 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 · Control 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 · Control linkage binding · Auxiliary foot pedal 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

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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 auxiliary 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 auxiliary 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 foot pedal 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.