

DW21-3

Company	Invoice #/WO#	Hrs/KM's-Part #	Maintenance Performed	UNIT#	Qty/Hrs	DATE	Name/ Cost
	12707		Unit dead, boosted. Topped engine oil and hydraulic. Note: Hydraulic oil is bypass and leaking through butt saw oiler. Take off all plates and covers for wash.	HA13	3	14-Jul-21	Blain
	12714		Wash unit	HA13	6	15-Jul-21	Norm
	12598		Boost, put hydraulic oil in, wash unit	HA13	7	27-Jul-21	Danny
	12743		Boosted dead batteries. Topped up MV32 x1	HA13	3	27-Jul-21	Blain
	12767		Check processor, check for filters, change case	HA13	2	28-Jul-21	Marc
	12528		Start going through getting sent out quick	HA13	3	28-Jul-21	Keven
	12744		Started installing all plates and covers	HA13	6	28-Jul-21	Blain
	12426		Help put panels/belly back in. Wash tracks/rinse over	HA13	4	29-Jul-21	Danny
	12529	13571 Hrs	Put guards on . Change engine oil. Check injector hoses, misfires. Replace couple hoses. Check engine harness	HA13	5	29-Jul-21	Keven
	12745		Serviced both final drives. Service engine. Greased. Cracks all over on head and head carrier.	HA13	4	29-Jul-21	Blain
	12745		Over heating. Checked all levels. Tomorrow we wash rad	HA13	1	29-Jul-21	Blain
	12855		Butt saw bar is bent. Tried to straighten 15 cuts later new chain is broken.	HA13	2	2-Aug-21	Blain
	12857		Replaced bar and chain on butt saw. Find out if we have any chain sprockets. I gave the operator my flat head screw driver. Will get new one at Northern Metallic	HA13	2	5-Aug-21	Blain
	12857		Blew water pump.	HA13		5-Aug-21	Blain
	12729		Wash rad	HA13	2	6-Aug-21	Mathieu
	12858		Installed the new water pump. Note: the over flow tank nipple ports are cracked up. Tank leaks, called and ordered new tank. Topped up coolant 4 jugs.	HA13	4.5	6-Aug-21	Blain
	12859		Replaced the butt saw sprocket kit. Replaced the thermo state. Replaced the coolant res tank. Replaced #6 pilot line from hydraulic pump to the pilot manifold. Topped up coolant, tested no leaks. Engine keeps bogging down (short injector wiring). Checked all levels. Taped up alternator wires are cooked. Engine oil filter is loose.	HA13	11	7-Aug-21	Blain
	12861		Over heats. Replaced water pump two days ago and all cooling sensors, the rad and cooler were just washed. Replaced cooler sensors.	HA13	2	9-Aug-21	Blain
	12853		Wash unit	HA13	2	10-Aug-21	Danny
	12862		Hydraulic cooler fan is not working need relay.	HA13	1.5	10-Aug-21	Blain
	12865		Install pilot line, Brandt sent wrong hose #16 JIC elbow 45 needs to be long. Tightened water pump bolts, called Brandt for parts.	HA13	2	11-Aug-21	Blain
	12865		head has no count	HA13	1	11-Aug-21	Blain
	12863		Install pilot line from Brandt. (wrong hose I need a #6 JIC elbow 45 long). Noticed water pump leak, tightened all bolts again. Called and ordered gasket just in case it keeps leaking and the right pilot hose.	HA13	3	11-Aug-21	Blain
	12863		head has no count	HA13	2	11-Aug-21	Blain
	12867		Hydraulic cooler fan is not working. Replaced cooler fan solenoid. There is power to cooler sensor and there is power to the relay but no power from the relay to the fan. Call Brandt for parts, intake hydraulic filter and a relay. VIN # 210702 and a hydraulic cooler sensor tool.	HA13	7	13-Aug-21	Blain

	12869		Pump is coming. Intank filter. Hydraulic cooler is all ordered. Replaced both fuel filters, Note: Filter did have some sand in them. Blew out air filters, rad, coolers and engine compartment. Blew all fuel lines back to tank. Tightened hose clamps on hose from under the turbo to the engine block. Engine code power to the injector wiring, low voltage.	HA13	4	16-Aug-21	Blain
	12732		Wash rads	HA13	2	17-Aug-21	Danny
	12870		Blew hose #10 to feed roller valve hose fitting to valve is damages ORS o-ring will not stay seated in the fitting. I looked everywhere for a fitting in shop truck and my truck, called Stephane.	HA13	1	17-Aug-21	Blain
	12872		Replaced intank hydraulic filter and pilot filter. Took off hydraulic cooler fan, bearing done. Brandt keeps sending wrong fan. Note: Now engine codes engine cooling wiring or sensors short. Sensors are new. So now we have codes for injectors low voltage. Short to cooler sensors or wiring. Hor honks when sitting down in seat.	HA13	3	19-Aug-21	Blain
	12873		Checked over hydraulic and engine temps engine @63 D and Hydraulic @ 54 D. Covered #12 hose from boom to valve bank.	HA13	1	20-Aug-21	Blain
	12874		Installed cooler and fan assembly. Took out engine wiring harness. Started to install.	HA13	8.5	21-Aug-21	Blain
	12875		Started installing new wiring harness, found more shorted wiring harnesses, called Leo and called Brandt. Note: the engine bypass tube is too short and blowing oil straight on all the plugs to the wiring harness.	HA13	0.5	22-Aug-21	Blain
	12877		Got new wiring harness. The turbo boot is cut under where clamp goes, none in shop truck. Ordered from Brandt. Replaced the blow by valve cover fitting and replaced the 3/4 hose to a longer one. Checked into where hydraulic cooler thermostat sensor is. Went to replace the primer pump but snapped the fuel line hose fittings, call and order new. Clean oil out of wiring harness plugs.	HA13	9	24-Aug-21	Blain
	12878		Installed fuel pump. Replaced hose 3/4 from under turbo to engine block. Topped up engine oil, top hudraulic. Took up fan direct until hydraulic cooler sensor comes in.	HA13	5	25-Aug-21	Blain
	12882		Ordered injector wire harness. Feed roller on the left keeps stopping. Replaced the proportional valve and tested good. Ordered more.	HA13	4	30-Aug-21	Blain
	12883		Replace top saw adjuster bolt and replaced missing hand assembly stud/nut/washer.	HA13	2.5	31-Aug-21	Blain
	12883		Replaced the injector wiring harness. Replaced the damaged turbo boot. Found shorted sensor and air to air for turbo and found another short on the wiring harness going to the coolant sensor.	HA13	4	31-Aug-21	Blain
	12888		Boosted unit, checked all levels because all dummy lights and guards are on. Replace air to air sensors. It was shorted. Installed new temp switch for the hydraulic cooler and the fan relay. Properly wired cooling fan for hydraulic cooler.	HA13	3	7-Sep-21	Blain
	13104		Relpaced the fuel filters. Checked all fuel line fitting for blockages. Cleaned tracks.Half the oil pan bolts were loose. Tightened and clean under oil pan. One pan bolt is missing, called and ordered.	HA13	8	14-Sep-21	Blain
	12828		Diagnostic if rough idle. Miss fire test, Compression test. Test wiring. Test enjectors. Will get test ECV to try.	HA13	3	16-Sep-21	Keven
	12830		Harness inspection, harness is good. No need to replace.	HA13	2	18-Sep-21	Keven

	12831		New ECU installed and tested. Took guard off to replace hoses	HA13	4	20-Sep-21	Keven
	12832		Replace more hoses. Wash unit. Install guards. Fix front lights. Tested, ran good, no codes, no over heating.	HA13	5	21-Sep-21	Keven
	13014		Check for over heating, all looks good, blow out rad.	HA13	1	28-Sep-21	Marc
	13015		Check 2 way antenna. Removed all used wires out. Run new antenna wire ziptied in place.	HA13	2	29-Sep-21	Marc
	13018		Check topping saw, hand ogt bent, push back in place, add shims.	HA13	2	2-Oct-21	Marc
	13026		Check not oiling. Removed and drill vent holes in cap. Blow out check valve and system.	HA13	2	14-Oct-21	Marc
	13028		Change o-ring on reliefs on swing motor.	HA13	1	17-Oct-21	Marc
	13031		Check for leak, will need hoses changed, notice connection ripped off on cab module, need info to hook back up.	HA13	2	20-Oct-21	Marc
	13032		Change 3 hoses on head, change 2 test ports, test run, blowout rad.	HA13	3	21-Oct-21	Marc
	13033		Check for leak loose fittings on head. Change out toiler seals on plumbing by tank. Change seals on swing motor reliefs	HA13	3	22-Oct-21	Marc
	13042	22233 Hrs	Pick up oil, shop truck. Use kit and service. Blow out rad and engine. Check all levels, ok. Ordered fuel cap, needs oil change in swing box.	HA13	6	1-Nov-21	Marc
	13046		Check with operator for head problem, running ok now.	HA13	1	5-Nov-21	Marc
	13047		Check for leak, change out all hoses between swivel and head, Change out hoses between feed wheel motor, top off oil.	HA13	5	6-Nov-21	Marc
	13049		Check feed arm and change out one proportional valve and one on/off for saw, looks ok for now.	HA13	3	8-Nov-21	Marc
	13057		Check grab arm, knife work out, got arm out of oil shed.	HA13	1	17-Nov-21	Marc
	13058		Pick up grab arm at shop. Installed rebuilt grab arm on head.	HA13	5	18-Nov-21	Marc
	13067		Installed new sprocket and chain catcher on butt saw.	HA13	1	27-Nov-21	Marc
	13071		Installed new diameter encoder, set up lock in place and test run.	HA13	3	1-Dec-21	Marc
	13078		Check saw and feed wheels slow, swap shuttle valve see what it will do, blow out rads.	HA13	3	11-Dec-21	Marc
	13079		Loaded up at shop, track come off, got track back on machine. Tighten tracks. Used kit and serviced. Check all levels ok. Blow out rad and engine	HA13	6	12-Dec-21	Marc
	13080		Tarp rads	HA13	1	13-Dec-21	Marc
	13086		Change out accumulator for wheel change 2 shuttle valve on head.	HA13	2	19-Dec-21	Marc
	13472		New accumulator	HA13	1	19-Dec-21	Mathieu
	13087		Check for leak, change #20 hose between swivel and head. Check joystick, ordered parts	HA13	4	20-Dec-21	Marc
	13472		Fix leak	HA13	5	20-Dec-21	Mathieu
	13088		Check and secure stereo antenna.	HA13	1	21-Dec-21	Marc
	13091		Stop at WCT Trans for parts, check butt saw want tighter button bash in ordered new one. Installed new chain, looks ok.	HA13	3	29-Dec-21	Marc
	13472		Change saw positions	HA13	2	29-Dec-21	Mathieu
	13093		Pull off grab arm cylinder and weld cracks, installed back in place.	HA13	2	31-Dec-21	Marc
	13473		Remove grab arm cylinder/install	HA13	3	31-Dec-21	Mathieu
	13095		Check measuring wheel, clean holes and bolt back in place.	HA13	2	3-Jan-22	Marc
	13098		Check busted read hose, cut off edge hook back up, top off rad. Moved to shop truck.	HA13	4	6-Jan-22	Marc
	13099		Check rad hose, found one close cut and fit, top off rad, plugged in to shop truck, change door latch and bolt. Reseal RH joystick pilot valve. Add oil.	HA13	8	7-Jan-22	Marc

	13475		Change chain release button on butt saw, change out broken valve on head, check pressure on tensioner.	HA13	5	11-Jan-22	Marc
	13600	22915 Hrs	Ordered parts at Brandt, line up Kevin to pick up parts, installed alternator and belt, start to warmup machine. Used kit and serviced.	HA13	6	16-Jan-22	Marc
	13518		Robbed fuel filter from unit to get night shift going on HA 10. Ran back to new shop for BF7950 fuel filter.	HA13	1	21-Jan-22	Blain
	13521		Feed roller problems, we have none in shop truck so I robbed the new one off of HA10 and installed it on HA13. Mt socket set fell off truck tail gate and the processor ran them over when passing by me. Missing 5 snap off sockets now. Needs #20 boom hose and #12 ordered.	HA13	4	24-Jan-22	Blain
	13523		Battery light is on. The battery mounts are both very loose and same with the battery clamps. After 30 mins on running unit light come back on this time an alternator wire is broken, repair and tested.	HA13	1	26-Jan-22	Blain
	13524		Opened all up to wash. Need tilt cylinder, this one is bypassing ordered a seal kit. U[[er grab arm cylinder fitting is no good the o-ring will not seat properly.	HA13	2	27-Jan-22	Blain
	13528		Head leak, the sides of the head a bit wet. So I got the operator to function so I could check for leaks. Replaced proportional valve o-ring seals.	HA13	3	2-Feb-22	Blain
	13533		Try to find leakm oil is all over engine/rad/coolers. Clean up with brake cleaner. Rad/Cooler are right clogged and oil in all compartments. To do this properly rad and coolers need a good wash. Topped 5x40 engine oil. Oil had 219 hrs on it.	HA13	2	7-Feb-22	Blain
	13534		Tried to find leak again, oil is everywhere rad/coolers totally clogged and oil is dripping on both sides. Dropped more covers and plates. I need air or unit washed, fan is blowing oil everywhere. Took the fan off and ran, very sure it's the hydraulic cooling leaking.	HA13	6	8-Feb-22	Blain
	13759		Dropped off hydraulic cooler to unit for Tom	HA13	1	10-Feb-22	Blain
	13631		Check light in dash. Fix wires on alternator.	HA13	2	17-Feb-22	Marc
	13634		Check accumulator, buster, Change out, measured #20 hose to get built. Fix back cab window.	HA13	3	20-Feb-22	Marc
	13638		Blwo out rads	HA13	1	24-Feb-22	Marc
	13639	23250 hrs	Used kit and serviced. Check all levels, ok. Blwo out rads and engine. Check for leak, change out test port on head rotary motor. Change out hoses between stick and swivel. Fix and weld hinges on belly pan under engine.	HA13	9	25-Feb-22	Marc
	13641		Check head acting up, test run, pull apart, check tilt cylinder. Packing shot, reaseal tilt cylinder, change out measuring wheel. Drill out broken stuff installed new one.	HA13	4	27-Feb-22	Marc
	13648		Set up and reseal. Butt saw cylinder on head, test run.	HA13	8	6-Mar-22	Marc
	13650		Check for leak, change #12 hose on pump.	HA13	3	8-Mar-22	Marc
	13655		Blow out rads	HA13	1	14-Mar-22	Marc
	13658		Check accumulator on head, busted change out, blwo out rad.	HA13	2	20-Mar-22	Marc
	13664	23508 hrs	Used kit and serviced. Check all levels, ok. Blow out rads.	HA13	4	27-Mar-22	Marc
	13666		Check for leak, need to check with operator.	HA13	1	29-Mar-22	Marc
	13906	23600 Hrs	Drain final drives and top back up.	HA13	1	30-Jun-22	Clint

Company	Invoice #/WO#	Hrs/KM's-Part #	Maintenance Performed	UNIT#	Qty/Hrs	Date	Name/ Cost
	13905	23600 Hrs	Start full service. Drop engine oil. Add 5.5 jugs if 5-40w. Change air filters and change cab filters. Change oil filter, change fuel filters. Change pilot filter and change hydraulic filter element. Drain swing motor and top back up with 75-90w. Missing Waratah attachment canister filters. Change main hydraulic hose for boom. Pull AC condenser back and blow it out with brake clean and air.	HA13	8	4-Jul-22	Clint
	13908	23600 Hrs	Install new high flow hydraulic filter and pilot filter on boom.	HA13	1	7-Jul-22	Clint
	14085		Arc crack	HA13	2	14-Jul-22	Mathieu
	14200		Weld boom.	HA13	4	18-Jul-22	Mathieu
	14120		Pull out covers and panels, wash all. Removed fan motor, change out fan motor, need AC belt and pulley.	HA13	6	18-Aug-22	Marc
	14121		Installed new AC idler pulley belt. Close up fan guard. Check RPM of fan, all looks good. Close all belly pans and cover on head.	HA13	8	19-Aug-22	Marc
	14233		Troubleshoot starter problem	HA13	3	29-Aug-22	Mathieu
	14075		Plug in AC gauges, Evac system, vacuum system well, try to charge AC, couldn't get processor to start, had to get Marc and Matt on it but still wouldn't start, will check tomorrow.	HA13	1.5	29-Aug-22	Alex
	14231		Pull into old shop yard. Run Processor, AC blowing just not cold cold. Inspect compressor clutch, turning on. Evac system and put into vacuum. Go to recharge system, took 2lbs. Try and start unit to pull in remaining charge, no start. Fuck around with Matt and Marc trying to start unit. Couldn't get running. Will need to finish AC once running again.	HA13	3.5	29-Aug-22	Adam
	14127		Work on getting engine to start. Swap solenoid, low voltage on low power side.	HA13	1	29-Aug-22	Marc
	14076		Marc figured it out and now can start unit, hook gauges and refrigerant back up and filled an extra 1lb 15oz, cab was blowing cold 10 degrees	HA13	2	30-Aug-22	Alex
	14128		Pick up Whitecourt Transport. Work on starting engine, broken pulley tab. Tied up harness and relay in place, good to go.	HA13	2	30-Aug-22	Marc
	13716		Added another 2lbs with engine running and checked temp from vents, blowing 10 degrees. Put covers back on.	HA13	2	31-Aug-22	Adam
	14306	23705 Hrs	Replace pin and bushing on Waratah head.	HA13	1.5	12-Sep-22	Allan
	14307		Assist mechanic (Tom) on hydraulic valves.	HA13	3	13-Sep-22	Allan
	14305		Blow out rad	HA13	1.5	14-Sep-22	Allan
	14315		Stand by	HA13	1	19-Sep-22	Allan
	14318		Go to town. Start removal of rad	HA13	2	26-Sep-22	Allan
	14320		Travel in, standby	HA13	8	28-Sep-22	Allan
	14321		Remove engine	HA13	6	3-Oct-22	Allan
	14322		Travel to L road. Return to town. Load up engine.	HA13	4	4-Oct-22	Allan
	14930	23832 Hrs	Clean up machine. Get ready for engine installation.	HA13	5	22-Jun-23	Allan
	14931	23832 Hrs	Installing engine. Weld repair to exhaust pipe.	HA13	11	22-Jun-23	Allan
	14932	23832 Hrs	Installing engine, engine oil and filter. Troubleshoot for no start problem. Correct the problem, wiring. Gett running. Hydraulic leak on pilot line. Remove hose.	HA13	11	24-Jun-23	Allan
	14933	23832 Hrs	Make up and install pilot line. Finish installing all body parts and covers. Clean up.	HA13	6	25-Jun-23	Allan

	15046	23834 Hrs		Remove D link and pins.		HA13	1	29-Jun-23	Allan
--	-------	-----------	--	-------------------------	--	------	---	-----------	-------

Company	Invoice #/WO#	Hrs/KM's-Part	Maintenance Performed	UNIT#	Qty/Hrs	DATE	Name/ Cost
DAC WELDING	2287		WELD CRACK ON HEAD	HA13	1	4-Jul-23	\$ 406.25
	15050	23834 Hrs	Position for removal of track rail, air arc and press out pin, split track, replace RH sprocket, replace 2 top carrier rollers, remove outer rock guard.	HA13	6	11-Jul-23	Allan
	15051	23834 Hrs	Remove inner rock guard. Remove bottom roller. Swing machine. Split track on RH side. Remove rock guards. Remove bottom roller and top. Carrier rollers, change rollers. Change drive sprocket. Cut out link.	HA13	11	12-Jul-23	Allan
	15052	23824 Hrs	Install top carrier rollers. Install idlers. Cut and grind link.	HA13	3	13-Jul-23	Allan
	15054	23824 hrs	Install roller and rock guards. Install RH idler.	HA13	3	15-Jul-23	Allan
	15055	23824 Hrs	Replace link, press together. Weld in pin LH side. Replace link RH side. Replace idler. Press together. Install pad. Pump up track. Clean up.	HA13	11	16-Jul-23	Allan
	15172		Drove to the 300 RD and found unit. Drop belly pan, try to locate leak, had to use air gun to try and spray the oil off. Believe I found the leak, sent pic to Stephane. Think Brandt will be doing it. Clean tools and head to town.	HA13	2.5	27-Sep-23	Alex
	15173		Drove to 300 RD. Remove hydraulic hose leaking, change o-ring, ran unit, no leak. Evac AC, basically empty. Try to vacuum but wasn't holding, charge with small amount of refrigerant to try and help identify. Need pressure test with nitrogen.	HA13	3	28-Sep-23	Alex
	14744		Body valve leaking	HA13	5	29-Oct-23	Jonathan
	14745		Change hose and clean machine	HA13	3	30-Oct-23	Jonathan
	14748		Chain keeper	HA13	1	2-Nov-23	Jonathan
	14749		Problem with the measuring 2x hose	HA13	4	3-Nov-23	Jonathan
	14752		Saw has no oil.	HA13	2	5-Nov-23	Jonathan
	14754		Problem with chain	HA13	1	7-Nov-23	Jonathan
	14757		Tight sprocket	HA13	0.5	10-Nov-23	Jonathan
BRANDT	06 1650220		DIAGNOSE AND REPAIR NO START. CUSTOMER PERFORMED WORK AND UNIT WILL NOT START. ECM STARTER PROTECTION GROUND HOOKED TO POWER. REMOVE AND CONNECT TO STUD AND REPLACED RELAY. UNIT NOW STARTS. STILL CANNOT CONNECT TO EDL.	HA13	1	21-Jan-24	\$ 1,372.15
	15635	25194 Hrs	BUP 2000 Hr service	HA13	5	11-Jun-24	Allan
	15636	25195 Hrs	BUP 2000 Hr service. Drain hydraulic tank. Removal of control valve and all related parts.	HA13	10	12-Jun-24	Allan
	15637		Removed control valve mark hoses ect.	HA13	10	13-Jun-24	Allan
	15638		Disassemble hydraulic control valve sections, clean parts, replace seals, make up hydraulic pilot line parts list.	HA13	10.5	14-Jun-24	Allan

	15639	25195 Hrs	Assemble control valve. Varsol down machine.	HA13	10.5	17-Jun-24	Allan
	15643		Replace o-rings on control valve, go get hoses built.	HA13	2	21-Jun-24	Allan
	15644		Finish assembling valve and installing on machine. Order more hoses and o-rings.	HA13	10	22-Jun-24	Allan
	15646	25195 Hrs	Installing valve and hose ect.	HA13	11	25-Jun-24	Allan
	15647		Installing valve and hoses	HA13	4	26-Jun-24	Allan
	15648		Installing valve hoses and lines.	HA13	10	27-Jun-24	Allan

Company	Invoice #/WO#	Hrs/KM's-Part	Maintenance Performed	UNIT#	Qty/Hrs	DATE	Name/ Cost
	15667	25195 Hrs	Install valve and hoses. Fill hydraulic tank. Get running. Check for leaks and operation. Removed 2 leaking hoses.	HA13	10	8-Jul-24	Allan
	15668		Make up hose and install	HA13	2	9-Jul-24	Allan
	15669		Pick up parts, make up swivel hose and install, replaced solenoid on pilot valve bank, replaced broken pig tail, order additional parts.	HA13	6	9-Jul-24	Allan
	15670		Ordered cooler lines. Pressure test AC system with nitrogen (major leak). Dissassemble machine to gain access to AC line leak, found burnt hose, further disassembly to remove burny hose.	HA13	10	11-Jul-24	Allan
	15671		Put back together enough to run machine, walk ahead and swing to gain access to space under the cab. Remove AC line. Replacing cooler lines, further tear down required. Hose from Brandt is wrong, told Stephane.	HA13	10	12-Jul-24	Allan
	15675		Pick up parts. Install AC line from Brandt (hose end wrong) remove hose, go get a hose made up at (JBS Mechanical) install new hose and pressure test to 250 PSI, blew another line (Burnt) that was damaged from the fire removed hose and took to JBS, get one made up, go back and pick it up.	HA13	10.5	18-Jul-24	Allan
	15676		Install AC line that was made up (3 in total) pressure test to 250 PSI. Vacuum, check and tighten all connections. Pressure test again, good. Vacuum down (won't hold vacuum). Suspect compressor seal, order compressor (Stephane). Re assemble machine.	HA13	10.5	19-Jul-24	Allan
	15678		Put back together to get running, run and turn. Clean up shop	HA13	7	21-Jul-24	Allan
	15651		Pick up parts. Remove old AC comprssor and install new one, hook up, vacuum down, run and test for leaks and operation, go get more refridgerant and top up system. Clean up.	HA13	10	25-Jul-24	Allan
	15652		Install all covers and pans.	HA13	5	26-Jul-24	Allan
	15891		Hydrauli coil leak at valve body. Remove fitting and hose fitting stripped, cut new fitting and old, weld together, make up new hose, go to and install fitting and hose, top up hydraulics. Run and test. Travel out.	HA13	5	28-Oct-24	Allan
	15896	25500 Hrs	Service. Blow out rad and engine.	HA13	3	2-Nov-24	Allan
	15900	25596 Hrs	Replacved engine thermostat. Run up to temp. Go to town.	HA13	6	16-Nov-24	Allan
	16140		Attempt to remove broken bolt in top saw motor. Remove saw motor.	HA13	3	29-Mar-25	Allan