

VEHICLE / PLANT SERVICE HISTORY

Registration No :	Insurance Fleet No :	M5
Make : Ditchwitch	Model :	JT3020 Drill Rig

Date of Service	Odometer Or Operating Hours	Works Completed	MSDS FOLDER	VEHICLE CHECKLIST COMPLETED	HAZARD INSPECTION COMPLETED	Next Service Due
29/05/10	120hrs	Complete Service completed by Ditchwitch	N/A	N/A	Yes	500hrs
06/11/10	613hrs	Completed 500hr service as per schedule – Ditchwitch	N/A	N/A	Yes	750hrs
04/02/11	814hrs	Completed 750hr service as per schedule - Ditchwitch	N/A	N/A	Yes	1000hrs
19/05/11	1081hrs	Commenced 1000hrs service as per schedule – changed engine & fuel filters, filter elements and changed oil – Ditchwitch (SERVICE NOT COMPLETE)	N/A	N/A	Yes	Rebooked to complete service
29/07/11		Site visit to find intermittent fault with rotation, changed joystick and tested OK Returned to base. – Ditchwitch Called back out to site intermittent loss of rotation, checked all wires and found loose connector on Tracker control switch, repaired connector, run & tested, refitted original joystick - Ditchwitch	N/A	N/A	N/A	1000hr
03/08/11	1322hrs	Completed 1000hr scheduled service. Replaced all oils, add Wynn's to gear oil cases, check on oil leak at clamping cylinder – replaced cylinder. Run & test - Ditchwitch	N/A	N/A	Yes	2000hr
09/07/12	2035hr	Completed 2000hr Service as per manufacturers specifications – oils & filters replace machine checked over. FM25 Mixing System serviced at same time all oils and filters replaced.	N/A	N/A	Yes	3000hr
27/03/13		Carried out service on machine, drain coolant, replace leaking water pump, top up coolant, change filters as required, check over machine, run and tested, adjust steering 29/4/13 repair oil leak on solenoid valve	N/A	N/A	Yes	
08/05/14		Proceed to site, carry out 3500 hr service as per operators manual, run and test machine, ok, check operation of carve mode and adjustment set up. All good, return to base				
10/05/14	3583	Service carried out by Ditchwitch			Yes	
17/06/14		Repair intermittent tether joystick problem on JT 3020. The problem is an intermittent one, the fault code coming up was for the forward please repair tether driver controller. Dismantle module and check for physical defects and corrosion/liquid damage, found none, replaced joystick, tested with multimeter, OK. 16/6/14 – Proceed to site, test JT 3020 for tether controller problem, check fault code, code consistent with joystick failure on tether controller, fit loan unit, run and test,				

		return to base.				
25/09/14	3888	Proceed to site, carry out service, check over machine, repair cracked filter bracket. Run and test, return to base.				
02/12/14		Proceed to site, Goolwa, fit new saver sub, water seal looked ok, run and test machine to check no water leaks, ok return to base - Completed by ditch witch				
27/01/15		Proceed to site, repair mud pump problem. Check mud pump flow problem, ball valve not shutting off properly, replace ball valve, ok, all working well. Check problem with mud pump speed sensor, test operation, ok, run and test machine check electrical wiring problem at mud pump controller solenoid, solder new wires to connector, insulate wiring. - Completed by Ditch Witch				
16/02/15		Proceed to site, check no hydraulics. Customer complained of no hydraulics at all, problem found to be pump drive coupling, cut off pipe in ground, return to base, order parts, unload machine and put in workshop, remove pumps from machine, remove bonnet and electricals from machine and hydraulic pumps, remove all hydraulic hoses, remove pumps from machine, fit new coupling to flywheel, refit pumps, assemble all hydraulic hoses and electricals to machine, top up oils, run and test, OK - Completed by Ditch Witch				
26/02/15		500 hr service, proceed from base to victor harbour, complete 500 hr service as per schedule, which included gearbox oil and hydraulic oil replacement. Thoroughly clean up any oil spills made during service and proceed back to base				
12/03/15		Repair leaking mud pump on JT 3020. Stripped bean pump as req. Resealed ceramic linings and put in new piston cups and resealed entire head.				
10/04/15		Proceed to site, repair electrical problem on JT 3020. Gepps cross auto electrician went out to site to Truro, checked intermittent electrical problem on JT 3020, could not find any obvious problem, tidied up loose loom, customer to report on any more faults.				
12/05/15		Proceed to site, check JT3020 for electrical problem, fault code 14 coming up, check all associated components on that circuit, check wiring for rubbing through where possible, change switches in circuit as they can cause the code to come up. Run and test. OK. Return to base. 14/5/15 Proceed to site replace joystick as a test to solve this problem, run and test. OK, return to base. 16/5/15 check all wires on Pipeloader harness and LH console harness, OK. Check carriage harness for damage to wiring, check all solenoids, tidy up wiring where necessary. After consultation with other technicians around Aust and the USA the decision was made to replace the main wiring loom, remove loom and fit a new loom Run and test, Ok. 17/5/15 Run and test machine, replace 2 oil filter hose on machine, check operation again, run rods in and out, test automation, OK. 21/5/15 Proceed to site, change last switches in 5 volt circuit, run and test. OK, Return to base. Proceed to site, start to change pipeloader loom, problem found in anchor pressure switch on new loom, refit original wiring loom, run and test, OK. 23/5/15 Check all wiring			Yes	

		on machine again, test wires and solenoids, phone Joey Reece in America, replace main controller, reset all parameters, run and test machine, run pipe in and out with Tony Dennis, machine working OK. - Completed				
18/05/15		Proceed from site to base, found machine i/m faulting code 88. Checked all CAN connections on the circuits and found the machine faulting on the pipeloader circuit. CAN cable is new on this circuit, possible fault in the firewall junction box. Tony did not want to replace straight away. - Completed by Ditch Witch				
21/08/15		Carry out 500hr service of machine, check electrical problem. Proceed from base to site at Croyden, Found I/M problem causing machine to lose functions and flash the diagnostic lights including the pipeloader light. Tested firewall junction box but was all ok. Replaced cable between junction box and pipeloader controller. Monitor issue as required. Carry out Service as per operations manual. Finish service, repair electrical problem on CAN system. - Completed by Ditch Witch				
16/10/15		Repair CAN problem on JT 3020. Proceed to site, check JT 3020 for intermittent CAN problem, replace 3 cables that all would make the fault code come up, run and test, OK, return to base. - Completed by Ditch Witch			Yes	
29/01/16		Repair to JT3020, major service etc. Proceed to site, remove info centre, fit loan unit, return to base and send to Jetsek for repairs to front screen. Setup JT 3020 in workshop, start removing hydraulic line to remove rotation gearbox. Change engine oil, oil filter, hydraulic oil, hydraulic oil filters, air filters, drill fluid pump oil, thrust drive gearbox oil. Drained ground drive oil. Replaced worn arm rest. Removed rotation gearbox. Begin stripping down gearbox for rebuild. Complete stripping down gearbox. Cleaned all components and removed rust from components. Begin rebuilding gearbox using new bearings, seals and gaskets. Complete rebuilding of main gearbox and begin on inner rotation gearbox. Complete rebuild of inner rotation gearbox. Rebuild water swivel using new seals and o-rings. Fit original information centre, find a new electrical connector for RH display module. Dismantle mud pump, clean up all surfaces. Install rotation pump on gearbox. Install gearbox in JT3020. Remove and replace ball valve with new and wire up connection. Repair broken wiring in RHS operator console. Replace missing bolt on pipe shuttle finger. Filled ground drive oil. Changed ground anchor gearbox oil. Carried out safety checklist. Adjusted track tension. Tightened loose ground anchor gearbox mounting bolts. Cleaned down unit and test ran. Checked for leaks, faults - ok. Assemble mud pump. Repairs to rotation hydraulic motor, repair leaks and shim bearings, fit seal kit. - Completed by Ditch Witch			Yes	
5/5/16	5321	Proceed to site, repair leaking water swivel on JT 3020. Remove water swivel, clean threads, apply thread tape and sealant, refit swivel and tighten, run and test, OK. - Completed by Ditch Witch				
21-07-16	5524	Carry out service and fit motion alarm to JT 3020. Carry out service according to maintenance schedule including change engine oil, oil filter, fuel filters,				

		<p>hydraulic filters, gear box oil, checked all other levels and topped up as necessary. Replaced leaking coolant hose to header tank with new and topped up coolant level. Pumped oil out of hydraulic tank and topped up to correct level. Tightened loose bolt on pipe shuttle, replaced missing bolt on pipe lubricator nozzle mount. Adjusted track tension. Cleaned battery terminals and replaced missing bolt on battery cover. Degreased and cleaned down unit after service and tested – ok.</p> <p>Isolated batteries, disconnected system controller and pipe loader controller, ground out cracked pipe rack mounts on boom, removed and tied wiring looms away from area being repaired and covered fuel tank. Welded up damaged area, cleaned and painted, reinstalled wiring loom, pipe controller and system controller, checked operation – ok.</p> <p>Remove covers from machine, fit motion alarm, make up wiring loom to suit, make up deutsch plug connector to fit main wiring loom. Fit wiring loom fit relay and fuses, tie up all wiring, fit on/off switch to system, run and test, good. Remove LH console panels and fit external power source plug for a flashing beacon. Test operation, good, refit all panels to machine.</p> <p>- Completed by Ditch Witch</p>				
16/12/16		<p>Major service on JT 3020, change all oils and filters, replace rollers where needed, change saver sub. Grind out cracks in boom frame on JT 3020, weld up cracks, finish major service. Run and test all functions, ok. Fit new pipe lift arms to JT 3020, run and test, ok.</p> <p>- Completed by Ditch Witch</p>				
5/6/17		Spare machine - Service only while in use				
24/2/18		Spare machine - Service only while in use				
7-4-20	912.0	Service, oil filter, fuel filter, fuel separator filter, new air filter x 2, changed drive motor oils	yes	yes		1160

VEHICLE / PLANT SERVICE HISTORY

Registration No :	Insurance Fleet No : M5
Make : Ditchwitch	Model : JT3020 Drill Rig

Date of Service	Odometer Or Operating Hours	Works Completed	MSDS FOLDER	VEHICLE CHECKLIST COMPLETED	HAZARD INSPECTION COMPLETED	Next Service Due
29/05/10	120hrs	Complete Service completed by Ditchwitch	N/A	N/A	Yes	500hrs
06/11/10	613hrs	Completed 500hr service as per schedule – Ditchwitch	N/A	N/A	Yes	750hrs
04/02/11	814hrs	Completed 750hr service as per schedule - Ditchwitch	N/A	N/A	Yes	1000hrs
19/05/11	1081hrs	Commenced 1000hrs service as per schedule – changed engine & fuel filters, filter elements and changed oil – Ditchwitch (SERVICE NOT COMPLETE)	N/A	N/A	Yes	Rebooked to complete service
29/07/11		Site visit to find intermittent fault with rotation, changed joystick and tested OK Returned to base. – Ditchwitch Called back out to site intermittent loss of rotation, checked all wires and found loose connector on Tracker control switch, repaired connector, run & tested, refitted original joystick - Ditchwitch	N/A	N/A	N/A	1000hr
03/08/11	1322hrs	Completed 1000hr scheduled service. Replaced all oils, add Wynn's to gear oil cases, check on oil leak at clamping cylinder – replaced cylinder. Run & test - Ditchwitch	N/A	N/A	Yes	2000hr
9/7/12	2035hr	Completed 2000hr Service as per manufacturers specifications – oils & filters replace machine checked over. FM25 Mixing System serviced at same time all oils and filters replaced.	N/A	N/A	Yes	3000hr
27-3-13		Carried out service on machine, drain coolant, replace leaking water pump, top up coolant, change filters as required, check over machine, run and tested, adjust steering 29/4/13 repair oil leak on solenoid valve	N/A	N/A	Yes	
10-5-14	3583	Service carried out by Ditchwitch			Yes	
16-12-15	3860	SERVICE BY DITCHWITCH	N/A	N/A	✓	5300
5/5/16	5321	Repairs by Ditchwitch	-	-	✓	5300
21/7/16	5524	SERVICED BY DITCHWITCH	-	-	✓	5700
6/3/17	5830	NEW L/H DRIVE MOTOR				6000
7-4-20	912-0	SERVICES ON FILTER, FUEL FILTER, FUEL SEPARATION FILTER, NEW AIR FILTER X2				
		CHANGES DRIVE MOTOR OILS	-	✓	✓	1160