

Service History Report



Machine Type	Bulldozer
Make	CAT
Model	D6N
Serial No.	LJR00416
Plant No.	DZ04

Date	Hours	Service Description	Service Performed By	Comments
11/03/21	-	Repairs/maintenance	Construction Diesel Services	Remove and replace worn hydraulic hoses.
12/03/21	8,372.5	250 Hour Service	Workshop	Carried out 250 hour service. Changed engine oil and all engine filters. Checked fluid levels and fitted new can vent filters. Grease all points and replace turbo oil drain pipe. Fit new work lights and weld plates over holes in blade. Fit fire extinguisher. Replaced front wiper arm and blade, fitted new blades to other window wipers.
12/03/21	8,372.5	Repairs/maintenance	Construction Diesel Services	Make new hydraulic hoses for 6 way blade assembly, fit new brackets and secure hoses to blade.
10/03/21	-	Repairs/maintenance	DR Auto Electrical	Inspect a/c system, confirm system is empty. Hydrogen leak check system, locate rubbed hose. Replace supplied hose and fittings. Replace drier. Vac, oil and charge system. Fit and hard wire beacon to custom made bracket. Replace isolator as requested. Repair 12v supply wiring as required. Fit and wire UHF & antenna. Fit and wire emergency stop to rear of machine.
15/03/21	8,374	Repairs/maintenance	Heavyequip	Engine not starting. Engine not cranking over, remove panels to access starter motor. Checked power, earth and start circuit – ok. Loose terminal on relay, need to replace starter motor. No.1 injector leaking. Removed and

				retensioned test – no leak.
18/01/22	8,691 hrs	Repairs/maintenance	Full Spectrum Equipment	Replace fuel/water separator, blow back fuel supply line back to tank, and remove & clean fuel tank breather. Remove primary fuel filter and clean out with diesel. Fit filter and bleed system and found primer pump leaking. Remove primer, fit new oring and refit prime fuel system. Remove air filter and clean, filter heavily soiled. Top up engine oil. Ran checks for wiring for power supply to UHF and cables.
22/01/22	8,722 hrs	250 hour service	Full Spectrum Equipment	Carried out service. Replaced missing bolt from LHS undercarriage rock guard, tapped hole and fit bolt. Welded up guard to frame. Cleaned top of engine to find leak, midding bolts in cover. Installed new horn. Fitted new bolts to grille as old were damaged and incorrect. Removed both RH and LH track frame. Pump up both tracks, found track frame oil very low. Filled up frames 18L each side, bolted up covers. Removed and cleaned cab external and internal filters. Fitted temporary air filter venturi as old one missing. Greased machine including ripper frme. Blew out radiator etc. topped up hydraulic oil 5L. Investigated electrical issues with UHF. Checked plugs and wiring. Found disconnect and rectified. Removed cabin panels to access fuel tank via inside cabin. Traced wiring and found degraded wiring in harness. Perform temp repair to keep functioning. Tested fuel gauge – ok. Safety check.
01/02/22	-	Repairs/maintenance	Full Spectrum Equipment	Remove rocker cover. Persist with broken bolt in corner of rocker cover. Unbolt and remove injector tubes and cap off. Remove injector plugs, disconnect injector wiring,

				unbolt and remove intermediate cover. Scrape back all dirt and paint from around block. Dig out blocked bolt holes from rocker cover. Run tap in 3 holes multiple times to remove compacted dirt. Perform valve lash adjustment. Clean down mating surface on block. Remove plugs from intermediate block. Pressure wash block, dry off and fit plugs. Fit new gasket. Fit plate into place and bolt down. Connect injector wiring, connect plugs. Fit new injector seal sleeves and fit injector tubes and tighten. Remove old valve return hose under RH console. Fit new hose in place and tighten into position.
02/02/22	-	Repairs/maintenance	Full Spectrum Equipment	Sand back surface on block for exhaust manifold. Uncover turbo and sand surface. Apply Loctite to studs and fit into manifold. Use wire wheel and clean all manifold bolts. Lubricate bolts. Apply sealant to gasket and fit manifold and gaskets. Bolt up and torque to spec. Apply sealant to turbo gasket and bolt up turbo to manifold. Fit new rocker cover with new bolts and torque to spec. fit induction piping to turbo and tighten clamps. Fit bracket bolts.
04/02/22	-	Repairs/maintenance	Full Spectrum Equipment	Run up machine and check over work completed for any leaks or issues. Remove retaining plates for tilt cylinder pins. Press out rod end pin. Clean inside centre pin and lubricate. Measure and order thread rod for pulling centre pin. Set up air line and jacks and unbolt rear belly plate. Lower and clean soil from plate. Lift plate up and set up another jack at front of plate. Pry plate and lower onto ground and remove. Use pry bar and clean lots of soil out of dozer. Crack hydraulic tube join. Set up drain tub and drain tube into tub. Replace O ring and refit tubes together. Locate and order leaking trans hose.

07/02/22	-	Repairs/maintenance	Full Spectrum Equipment	Sand back all mating surfaces for retainers and track caps. Ordered new O rings for caps from cavpower. Apply sealant to retainer and fit track frame. Clean and fit bolts for both sides. Refill oil into frames. Top up to correct level, remove turbo vacuum hose and pipe. Drill out soil compacted inside, refit back into machine. Reassemble console in cab, fit floor panels and mat, and fit engine cover panels. Set up hydraulic press and tubes. Press out centre pin on dozer blade. Set up drain tub and remove panel and hoses from cylinder. Sling cylinder to work bench. Set up tooling and crack gland loose. Remove gland and rod from barrel.
08/02/22	-	Repairs/maintenance	Full Spectrum Equipment	Engrave piston nut and remove nut with level bars and socket. Remove piston and gland. Remove piston seals, clean and fit new seals with oil. Remove seals from gland. Grind back paint from gland surface. Sand inside gland to remove existing rust. Clean and fit new seals with oil. Set up rod on bench and measure rod diameter. Compare finding with cat spec. take rod to grinders for finishing/rechrome. Fit all remaining panels on engine panel. Fit new O rings to track frame covers.
09/02/22	8,723 hrs	Repairs/maintenance	Full Spectrum Equipment	Set up air supply and remove trans breather. Connect venturi. Remove hose from trans to pump. Hose took long time to get off, hose had become hard and had to be cut with saw in multiple spots to free up. Pressure clean clamps. Fit new hose with clamps and tighten. Fit belly plate to dozer. Clean trans breather and refit to machine. Press in tilt cylinder pins and fit bolts to hold in place to move. Run up machine. Clean gravel from track damage.

14/02/22	-	Repairs/maintenance	Full Spectrum Equipment	Reassemble Blade tilt cylinder. Connect to test bench and tested repeatedly 3000psi all ok. Clean and painted cylinder. Set up and install cylinder to machine. Tested on machine – ok. Finish mount guards, fit clamps and top up hydraulic oil 5L.
03/03/22	8,732 hrs	Repairs/maintenance	HeavyEquip	A/C not cooling. Remove covers to access compressor, check pressures gas still in system – just not cutting in – check fuses, check compressor for power and earth 27.5 V clutch coil failed. Ordered parts - fit new parts, nitro test and vac, charge with gas. Cooling efficiency not great – thermostat cutting in and out. When running constantly low side freezes at accumulator and down to compressor. Recommend replacing accumulator, hoses, bulk head and thermostat.
07/04/22	8,774 hrs	Repairs/maintenance	Workshop	Oil leak from under machine – hoses and pipes rubbing together and not suitably secured. Removed belly plate and floor pan. Remove steel pipe leaking from pin hole. Braze the hole and refit pipe. Replaced 2 hydraulic hoses which have rubbed through the wire braid. Top up trans, hydraulic and engine oils. Refit belly plate and floor pan. Cleaned all dirt out from underneath while belly plate was off.
17/06/22	8,876	Repairs/maintenance	Full Spectrum Equipment	Removed belly plate. Identify leak, remove and replace 2 x orings. Test pp delivery hoses – ok. reassemble and fit belly plate. Tensioned lh track.
13/01/23	9,063	Service	Workshop	Carries out scheduled service/RH blade tilt ram leaking. Changed engine oil and all engine filters. Check all fluid levels, grease all points. Remove RH blade tilt ram and fit new seal kit. Replace spherical bearing and pin in barrell end of ram. Old pin had to be burnt out as it was seized. Replaced perished hydraulic hose on ram.

23/03/23	-	Repairs/maintenance	Full Spectrum Equipment	Remove track link bolts with oxy to remove plates. Cut out broken bearings with oxy. Clean all contacting surfaces with die grinder. Press together replacement link. Install link to one end of track. Modify part of link to allow correct fitment to opposing chain link. Set up track press and press together links and connect chain. Install pin seals, bolt up grouser plates, and torque up all bolts. Primary tension on track performed.
24/04/23	9,126	Service	Workshop	Carried out service. Changed engine oil and all engine filters. Greased all points. Checked all fluid levels. Visual inspection of machine.
27/04/23	-	Repairs/maintenance	Full Spectrum Equipment	Blade pivot grease. Connect porta power press tooling. Forced oil into LHS pin (ok). Reconnect grease nipple. RHS attempted repeatedly, unable to pop.
31/05/23		Repairs/ maintenance	HeavyEquip	Travel to west beach boat ramp, inspect dozer, grease, replace fire extinguisher.
01/06/23		Repairs/ maintenance	HeavyEquip	Travel to west beach with engine oil to top up dozer, found engine block plug missing, temp plug hole and order new plug. Removed engine cover off of right side, fit plug to engine, fit covers back on.
22/07/23	-	Repairs/maintenance	HeavyEquip	Blew out radiator and filters. Topped up transmission, hydraulic and engine oil. Greased.
26/09/23	-	Repairs/maintenance	HeavyEquip	Engine bogging down in power. Run up machine, found it started starving for fuel under full load – tested transfer pump pressure starts at 50 psi then warms up, end up with nothing. Made parts list to replace fuel pump as well as they are one unit. Pump will be due for replacement as well if transfer pump is bypassing.
05/12/23	9,178	Repairs/maintenance	Full Spectrum Equipment	Perform injectors trim codes update. Tested machine engine (ok). Checked fuel pressures (ok).

14/12/23	-	Repairs/maintenance	Cavpower	Replaced old PL321 satellite product link device with current PL542 cellular device. Registered new product link device and sent through activation request form.
05/09/24	9,199	Repairs/maintenance	Cross Diesel Services	Look up fault code (2596-06). Remove floor to locate brake valve. Follow CATSIS trouble shooting instructions. Diagnosed faulty brake valve solenoid.
05/09/24	9,199	Repairs/maintenance	Cross Diesel Services	Look up fault code 2596-06. Remove door to locate brake valve. Follow cat sis trouble shooting instructions, Diagnosed faulty brake valve solenoid. Look up part number for customers. Pack up.
06/09/24	9,199	Repairs/maintenance	Cross Diesel Services	Clean under cab, remove seized solenoid. Fit new solenoid and test (ok). Refit floor and floor mat. Run up machine and operate.
18/10/24	9,280	Service	Workshop	Carried out service. Changed engine oil and all engine filters. Replaced cab vent filters. Check all fluid levels. Grease all points. Tension tracks. Safety check.
06/05/25	-	Repairs/maintenance	HeavyEquip	Check machine for hyd filter alarm. LOK UP E879-1 on sis. Steering charge filter.
09/05/25	-	Repairs/maintenance	HeavyEquip	Removed and replaced hydraulic filter. Run up machine, checked for leaks, ok
23/05/25	-	Repairs/maintenance	Cross Diesel Services	Check over and grease
28/05/25	9122.8	Repairs/maintenance	HeavyEquip	Replace steering charge filter. Check machine for hyd filter alarm. Look up e879-1 on sis. Steering charge filter. Removed and replaced hydraulic filter. Run up machine, checked for leaks, ok

30/05/25	-	Repairs/maintenance	Cross Diesel Services	Check over. Grease and adjust tracks. Top up hydraulic oil
09/09/25	-	Inspection	Cavpower	Front idlers require replacing, Rear sprockets require replacing, Track adjusters require re-sealing at a minimum. Fred all sorted. Track chains require replacing.
10/09/25	-	Repairs/maintenance	FULL SPECTRUM EDQUIPMENT	Set up machine. Tired pumping up both tracks, both unable to. Chained out idler for tension. Moved machine into position. Set up on stands. Split tracks collect parts. Wind up both tracks for transport. Remove both sprockets and had to heat all bolts to remove all 4 idlers and clean surfaces ready for reassembly, removed guide blocks for cannons. Remove right cannon, wash tensioner. Remove 2x broken bolts from cylinder tensioner. Grind prep mount surface of sprockets. Fit new sprockets. Torque to spec. Fit rear idlers and torque up. Remove left cannon and reseal tensioner. Clean out track frame cannon bores. Remove and replace cannon support bearings. Replace cannon seals. Install both left and right cannons. Fit front idlers and torque up. Filled up both with oil. Changed hydraulic case filter. Assemble new hydraulic filler cap and install.
16/09/25	17,618	Repairs/maintenance	HeavyEquip	Remove and replace electric fuel primer diagnosed prior by Haros mechanic. Note prime still not functioning only has 4v at plug suspect switch faulty but this will not cause engine to shut down as it's only for priming filters, suspect maybe old primer drawing in air. Also noticed under carriage needs

				repair. Chains worn and rollers US.
18/09/25	17,618	Repairs/maintenance	HeavyEquip	Backed off idler and pushed cannon in. Used come along and digger to put track back over sprocket. Jacked machine up and push track back under dozer. Idler wouldn't take grease, ordered parts and picked up. Fitted new grease valve and pumped up track. *Cannon at full adjustment and chains on both sides still loose*
22/09/25	-	Repairs/maintenance	Cavpower	Remove plates from old chains. Clean and prep new chains. Install plates to new chains with new hardware.
23/09/25	-	Repairs/maintenance	Full Spectrum Equipment	Set up tracks and rolled both left and right tracks on. Cleaned paint off of master links. Linked up both tracks and bolted up to spec. Tension tracks. Check belts top up engine oil 2l. Ckangedvair filter. Top up hydraulic oil 3l. Test drive ok. Check and adjust track tension – right in spec. Tension left to spec. Grease 2 nipples – used porta Power to blast out rhs nipple and replaced broken one. Install cannon protector wear plate skirts. Replaced grease nipple rhs with extension and new nipple.
21/01/26	9,517	Repairs/maintenance	HeavyEquip	Removed filters, inspected and found contaminants. Cleaned and replaced filters. Plugged ET in and started machine. No fault codes. Operator claims hydraulic filters plugged – remove return filter and inspect, found bits of metal and what appeared to be seal material after it had been cleaned it out and

				replaced the filter earlier today. Plug ET into machine to view live data of hydraulic pressure – not available. Remove and test hydraulic restriction filter sensor. Didn't have continuity between the 2 wire sensor, switch. Suspect sensor has failed. Operate machine and check for operation for lack of performance and any abnormal noises such as cavitation – no evidence of poor performance or noises. Bypassed switch and sent machine back to work.
24/01/26	9,517	Repairs/maintenance	HeavyEquip	Machine wont push inspected fuel bowl and found sediment/contamination. Drain bowl and tested, pushing better. Inspected A/C blowing cold, A/C cycling as should 50 psi low side 240 high side vent temp only 20 degrees. Fitted new filters, whilst priming found fuel water sep to fuel pump hose clamp loose possibly sucking air, tightened. Suspect coolant still flowing through heater core whilst A/C on will need further inspection, unplug electronic heater tap.
26/01/26	9,517	Repairs/maintenance	HeavyEquip	Replaced fuel water sep and installed hose clamp, stalled out machine as complaints of blowing smoke (ok).
27/01/26	9,517	Repairs/maintenance	HeavyEquip	Drained fuel water separator and started machine (ok). Showed operator how to if it goes down overnight.
04/02/26	9,517	Repairs/maintenance	HeavyEquip	Machine runs then shuts down. Removed fuel supply line from tank, found outlet full of dirt, leaves cleaned fitting. Used compressed air to clean line from filter housing to tank. Flushed fuel from tank out tap, clean. Reconnected hoses, primed fuel system. Started and ran up engine, didn't

				shut down. Suggest tank drain/clean when empty. Fit guards, check for leaks, ok.
08/04/26	-	Repairs/maintenance	SETPOINT	Poor cooling due to blocked evaporator and filter sealing issues, HVAC repair and service. Cleaned and sanitised evaporator. Replaced receiver drier and thermistor. Replaced cabin filters x4. Fit new filter mounting points and fitted filter plates. Restored correct filter sealing. Carried out HVAC service (replaced receiver drier, added compressor oil and leak dye) Pressure tested, ok. Recharged system and tested operation. System pressures within acceptable range. Operating correctly. Checked zone control, blower motor speeds, heater operation, condenser fan, compressor belt, and wiring harness – all ok.
10/04/26	-	Repairs/maintenance	HeavyEquip	Inspect fault – no hydraulic. Plugged in ET and check for active codes – none. Operate machine and had full hydraulics. Try varies different ways to try make fault but all still working. Check over joystick wiring and looks all ok. Suspect possibly pilot control solenoid or lock out switch but can't fault find when issue is not here.
15/04/26	9,517	Repairs/maintenance	HeavyEquip	Inspect fault – blowing black smoke and no power. Check fuel system – seems ok Check air filters and are fully blocked. Tap out and blow out as best as possible (powercore filters are not easy to clean out) Refit and test – operator took for 20 minutes run and running 100% better. Ring and order replacements.