

EV33-18

Record of Work / PM Checklists					
	Date of Repairs	Task Type	KM's	Hours	Repairs Completed
CT223					
	8/28/2025	Record of Work	0	12927	Diagnose 1470-8 speed sensor code. Found connector at sensor pinned wrong. Swapped pins to match wiring schematic and test - good.
	8/18/2025	Record of Work	0	12874	<ul style="list-style-type: none"> <li>-Replaced fuel filters</li> <li>-Replaced engine oil filter and oil</li> <li>-Replaced engine air filters</li> <li>-checked for play on pins and bushings</li> <li>-checked the final drive fluids</li> <li>- repaired the left two work lights on top of the blade cylinder</li> <li>-repaired the left cab work lights</li> <li>- greased the unit</li> </ul> <p>Work that still needs to be done:</p> <ul style="list-style-type: none"> <li>-track rails are worn</li> <li>-diag steering fault code</li> <li>-Diag fault code 1470-8 (reference from July 1/25)</li> </ul>
	6/1/2025	Record of Work	0	12649	<ul style="list-style-type: none"> <li>-Removed A/C compressor</li> <li>-Installed new A/C compressor</li> <li>-Charged system to spec</li> <li>-Verified operation</li> </ul>
	5/28/2025	Record of Work	0	12631	<ul style="list-style-type: none"> <li>Replace exhaust clamp to muffler</li> <li>Needs new AC compressor, power and ground to the compressor clutch not engaging</li> <li>Replaced steering speed sensor, still throwing, fault code</li> <li>Replaced to a radio mic</li> </ul>
	5/20/2025	Record of Work	0	12566	Replaced two way antenna
	5/16/2025	Record of Work	0	12566	<ul style="list-style-type: none"> <li>-Needs steering motor speed sensor (leaking into electrical pins, wrong sensor ordered )</li> <li>-Installed 2 way antenna</li> </ul>
	5/9/2025	PM Dozer Checklist	0	12529	<ul style="list-style-type: none"> <li>Change the engine oil and filter</li> <li>Change fuel filters</li> <li>Blew out air filter</li> <li>Blew out cab filters</li> <li>Tension tracks</li> <li>Replaced rear pitch link bushing</li> <li>Monitor exhaust clamp pipe to muffler cracking</li> </ul>
	1/17/2025	Record of Work	0	12225	<ul style="list-style-type: none"> <li>-change hydraulic oil and filters</li> <li>-clean suction screen and mag screen on power train</li> <li>-replace torque converter scavenger screen</li> <li>-change power train oil</li> <li>-replace angle cylinder (swap from ct219) rod end was bored out</li> <li>-powertrain and brake calibration</li> <li>-top up accumulator pressure(250psi)</li> <li>-tighten fire extinguisher bracket</li> <li>-grease unit</li> <li>-remove shims on c-frame left side</li> </ul>

## Record of Work / PM Checklists

Technician	Date of Repairs	Task Type	KM's	Hours	Repairs Completed
	12/6/2024	Record of Work	0	12130	Inspect unit before short job Needed when unit returns: hydraulic system oil change transmission service hydraulic filters L/S angle cylinder rod bushing L/S C frame shim  Replaced service sticker
	10/10/2024	Record of Work	0	12093	-Replaced number 1 and 3 injector (Injectors were leaking fuel out the top of injector which was filling engine oil with diesel fuel) calibrated two new injectors after install. -Replaced both Webasto coolant lines -Change engine oil
	8/29/2024	Record of Work	0	12039	-Replaced outer air filter
	7/29/2024	Record of Work	0	11932	Driftpile FN Service Truck - Travelled to kinuso fix a fuel leak, removed side covers and found the return line on the back of the head was leaking. Removed EGR valve assembly and the ether canister bracket to access the fuel line. Removed return fuel line along with two other fuel lines that needed to be removed. Phoned finning for part numbers and availability. Traveled back to the shop. Parts came in two days later, travelled back out to kinuso to install the three new fuel lines. 9.00000 \$135.00 \$1,215.00 Reassembled and started machine to check for fuel leaks, reinstalled side covers
	7/3/2024	PM Dozer Checklist	0	11803	-350hr service -Changed engine oil and filter -Replaced fuel filters -Replaced cutting edge and corner bits
	6/27/2024	Record of Work	0	11801	Had E192 event code "Steering Fault", Tyler investigated and could not duplicate concern.
	6/18/2024	Record of Work	0	11792	Charge trans accumulator to 250 psi Did a clutch calibration on transmission
	3/13/2024	Record of Work	0	11485	Cracks at lower rear of trans mount to frame gouged and welded up by Graeme Leibel

## Record of Work / PM Checklists

Technician	Date of Repairs	Task Type	KM's	Hours	Repairs Completed
	3/7/2024	Record of Work	0	11483	Next service do 11 835 hrs Replace lift pump Replaced clamp on fuel line return to injection pump Adjust left hand side door latch Replaced master switch Replace thermostat Welded muffler bracket Replace left-hand side rear lightbulb Swap lift cylinders with CT 224 Greased machine Changed engine oil +filter Changed final drive oils Change pilot filter Replace fresh air filter Replace engine air filter Pivot shaft is sweating on both sides Rh track tightening barrel is sweating Cracks starting on main frame in the rear Change radiator cap Cut fuel tank lock off
	1/22/2024	Record of Work	0	11477	-Filled coolant roughly 10L -Drained roughly 10L of engine oil out of oil pan, fluid level was high -Filled hydraulic oil 15L -Installed webasto circulating pump wiring harness
	11/7/2023	Record of Work	0	11441	Replaced both batteries
	10/6/2023	Record of Work	0	11371	-Tacked broken muffler support bracket in machine, will need to be removed and welded properly. -Installed 2 hose clamps around muffler and bracket to support.
	9/24/2023	PM Dozer Checklist	0	11278	-350hr service -Changed engine oil and filter -Replaced fuel filters -Blew out rads -Need to cut lock off fuel drain ball valve to drain fuel -Right blade lift cylinder still slowly leaking hydraulic oil from weld -tested webasto -Muffler bracket welds are broken on top and bottom and need to be re welded
	9/5/2023	Record of Work	0	11140	Machine was throwing a air filter restriction code, replaced inner and outer air filters, good no more light.
	8/17/2023	Record of Work	0	10950	Air filter restriction light came on, blew out air filter and light went out.
	6/30/2023	PM Dozer Checklist	0	10874	Change engine oil and filter Change fuel filters Tension track RHS lift cyl fitting sweating - monitor
	6/12/2023	Record of Work	0	10818	Blew out AC drains Blew out cab filters
	5/19/2023	Record of Work	0	10641	-Tightened both tracks -C frame was shimmed incorrectly causing the bolts to keep backing out, shimmed it properly.
	5/18/2023	Record of Work	0	10640	-replace fuel filters -Found broken wire on fuel filter pressure sensor - repaired wires

## Record of Work / PM Checklists

Technician	Date of Repairs	Task Type	KM's	Hours	Repairs Completed
	3/28/2023	Record of Work	0	10544	<ul style="list-style-type: none"> <li>-Replaced outside battery (left one) negative post was melted half off, replaced with good used 4D from the shop.</li> <li>-Found the cross over cable from one battery to the next had cracked/Broken at the battery terminal ends, replaced cable.</li> <li>-Monitor to see if the 1401-5 and 1402-5 transmission codes from yesterday at 10535HR are related to battery having a bad connection/ being melted.</li> </ul>
	3/7/2023	Record of Work	0	10505	<ul style="list-style-type: none"> <li>Found hydraulic oil pilot filter seal pushed out.</li> <li>Replaced hydraulic oil pilot filter (HF6553) And topped up hydraulic oil 22litres TXM</li> </ul>
	12/22/2022	Record of Work	0	10500	<ul style="list-style-type: none"> <li>Richard - engine oil pan leak; reseal engine oil pan and replaced engine oil &amp; filter (next service due @ 10850 hrs)</li> <li>-turbo drain line leak; reseal turbo drain line. Replaced fuel filters, air filters, hydraulic oil filter and pilot oil filter</li> <li>-service transmission, drain oil clean transmission screen, torque converter screen and magnet</li> <li>-clean hydraulic tank breather, replace fuel cap breather</li> <li>-replace hydraulic hose from pilot filter to vale bank; leaking</li> <li>-lower rad hose leaking; tighten hose clamps</li> <li>-heater hose off water pump leaking; tightened hose clamps</li> <li>-checked final drives; RHS low on oil 1.5L; filled</li> <li>-drained fuel tank; moisture</li> <li>-replaced front &amp; rear wiper</li> <li>-rear and RHS door wiper spray backwards; switched plugs on wiper motor</li> <li>-replaced engine drive belt</li> <li>-removed equalizer bar</li> <li>-replaced outside bearings R/S &amp; LS</li> <li>-installed new seals</li> <li>-machine counterbore for R/S bearing and center pivot on machine; center pivot new seals installed</li> <li>-machine counter bore on C-frame to lift, pitch link and tilt cylinders; installed new bearings and pins</li> <li>-machine counter bore on blade for tilt cylinder and angle cylinders; installed new pins</li> <li>-replaced rear pins and bolts on angle cylinders, replaced O-rings on all removed hydraulic lines</li> <li>-reseal transmission drive oil pump mounting surface</li> <li>-replaced rear drive coupler and input seal on pump</li> <li>-tune ECM, remove emissions and install flow pro muffler 2507. Block EGR</li> </ul>
	10/13/2022	Record of Work	0	10312	<ul style="list-style-type: none"> <li>Dan - went through machine, found all blade boss's were worn &amp; need line boring</li> <li>-all pins &amp; bushings worn - need replacing</li> <li>-hose on steering filter sweating heavily &amp; need replacing</li> <li>-welded stud on for guard on RHS of machine</li> <li>-found 1 x bolt missing in LHS bottom roller inner front, installed new bolt &amp; torqued to spec</li> <li>-flipped cutting edge &amp; replaced corner bits</li> <li>-greased entire machine</li> <li>-secured 2-way radio better then it was</li> </ul>
	8/26/2022	Record of Work	0	10146	<ul style="list-style-type: none"> <li>tyler - changed engine oil &amp; filter</li> <li>-replaced fuel filters</li> <li>-replaced outer air filter</li> </ul>
	8/9/2022	Record of Work	0	10014	<ul style="list-style-type: none"> <li>-tightened track seg to 1 1/2" on both tracks</li> <li>-remounted 2-way radio</li> </ul>
	7/29/2022	Record of Work	0	9970	<ul style="list-style-type: none"> <li>-replace undercarriage</li> <li>-new track pads, track link, Idler track roller, carrier roller and sprocket</li> <li>-reuse rock guards and modify all new hardware used and torqued</li> <li>-clean cab air filters and d-rail line for evaporator</li> </ul>

## Record of Work / PM Checklists

Technician	Date of Repairs	Task Type	KM's	Hours	Repairs Completed
	7/23/2022	Record of Work	0	9933	-replaced lower rad hose, held vacuum for 15 min before filling; filled coolant 53L
	6/17/2022	Record of Work	0	9765	-put floor mat under seat -fill A/C system 3.5lbs R134A; good
	6/1/2022	Record of Work	0	9758	Keeton - replaced leaking steering cylinder line -removed cab and rads to access -reinstalled cab/rads, hooked everything up, tested; all good -rebuilt angle, tilt and pitch link bushings and pins as were worn out / broken -whole blade new line boring (monitor) -trans service due in 100hrs (monitor)
	5/19/2022	Record of Work	0	9703	Ryley - changed engine oil & filter - LF9691A 28L 5w40 -replaced 3 fuel filters - FF5319 x 2 & 326-1643 CAT -right track seg out of spec; set to 1 3/4" -replaced left rear upper work light - H3
	4/1/2022	Record of Work	0	9498	-code 3385-13 not active, only came active once at 9492 hrs, pulled sensor out to clean then reinstalled -ran machine & no codes came active (monitor) -code 3385-13 - EGR intake pressure sensor out of calibration
	2/17/2022	Record of Work	0	9283	Ryley - changed engine oil & filter 27L 5w40 -replaced fuel filters (FF5319 x 2 & CAT326-1643) -blew out air filters -replaced fire extinguisher
	1/22/2022	Record of Work	0	9171	-replaced cutting edge
	11/26/2021	Record of Work	0	8956	Tyler - changed engine oil & filter -needs cutting edge replaced soon
	10/29/2021	Record of Work	0	8812	Nolan/Dan/Tyler - installed new webasto & tested; was good -replaced hydraulic oil & filter -replaced steer filter -replaced transmission oil, filter & cleaned screens -replaced final drive oils -calibrated transmission -did park brake touch up calibration -greased entire unit -need ripper tooth pin (monitor)
	9/14/2021	Record of Work	0	8581	Dan - replaced engine oil & filter -replaced all 3 fuel filters -replaced outer engine air filter -blew out cab filters -replaced RHS front light bulb
	8/30/2021	Record of Work	0	8538.9	Dan - replaced battery isolator switch -replaced 2 x grease zerks on ripper -replaced 2 x missing bolts in RHS engine bay panel -replaced 2-way antenna, radio & mic
	5/27/2021	Record of Work	0	8210.2	Dan - replaced engine oil & filter -fuel leak on injector #1 line (monitor) -LHS wiper blade needs replacing (monitor) ** Tyler was able to snug p & stop leak
	10/9/2020	Record of Work	0	8020	Tyler - changed engine oil and filter

## Record of Work / PM Checklists

Technician	Date of Repairs	Task Type	KM's	Hours	Repairs Completed
	9/15/2020	Record of Work	0	7902	<ul style="list-style-type: none"> <li>-replaced fuel filter</li> <li>-replaced ARD head and spark plug</li> <li>-replaced DPF filter</li> <li>-replaced all 6 injectors / Finning installed injectors</li> <li>-replaced steel line on C-frame for angle cylinder</li> <li>-replaced batteries from Glover - Oct 5/2020 @ 7986 hrs</li> </ul>
	8/10/2020	Record of Work	0	7706	<ul style="list-style-type: none"> <li>Keeton - replaced EGR cooler &amp; coolant O-ring</li> <li>-replaced intake hose</li> <li>-replace turbo feed and drain gaskets / turbo flange gasket</li> <li>-CAT did blade measure up</li> <li>-replaced fire extinguisher bracket</li> <li>-reinstalled 2-way radio</li> <li>-replaced connector for front lights R/S</li> <li>-replaced o-rings for EGR differential pressure sensor</li> </ul>
	6/5/2020	Record of Work	0	7636	<ul style="list-style-type: none"> <li>Keeton - built shovel holder for front grill</li> <li>-changed fire extinguishers</li> <li>-painted grills and cleaned up rust</li> <li>-painted and straightened exhaust pipe</li> <li>-install / removed new CAT decals</li> <li>-fixed wiper sprayers; weren't right, switched at washer pump</li> <li>-changed / cleaned up some wiring and hoses</li> <li>-fluid / filter changed on engine, transmission, finals, hydraulics</li> <li>-drained and replaced filters, filled up; all good</li> <li>-changed U joints on driveline</li> <li>-cleaned all suction screen when trans oil was out</li> <li>-removed &amp; replaced all upper lift cylinder bushings</li> <li>-replaced drain gaskets on oil pan as it was leaking</li> <li>-removed track on RHS, pulled idler and track tensioner</li> <li>-replaced chrome and seal bearing on track tensioner</li> <li>-reinstalled track, filled with oil and set tracks while idler was out of the way</li> <li>-changed #1 roller on RHS and replaced one segment bolt</li> </ul>