

CAT D10T (RJG1-UP) Dozer Service Sheet



ACCIDENT PREVENTION

READ AND UNDERSTAND SAFETY WARNING IN THE OPERATION AND MAINTENANCE MANUAL

HAVE YOU COMPLETED A TAKE 5?

HAVE YOU COMPLETED AND UNDERSTAND YOUR JHA or JSA

HAS YOUR JOB CIRCUMSTANCES CHANGED SINCE COMPLETING YOUR TAKE 5

- ☒ Cleaned Machine Prior to Commencement of service?
- ☒ Parking Brake Engaged?
- ☒ Blade Lowered?
- ☒ Ripper Lowered?
- ☒ Attach out of Service Tags?
- ☒ Have you locked out machine isolator as per site regulations?
- ☒ Relieve pressure from hydraulic systems?

FITTER: _____

SIGN: _____

DATE: ____/____/____

SERVICEMAN: Way Clark

SIGN: [Signature]

DATE: 13/5/25

SUPERVISOR: C. Pointon

SIGN: [Signature]

DATE: 15/5/25

SITE: COLLIE

FLEET NO	MODEL	SERVICE TYPE	JOB NO	DATE	CURRENT HRS
EMTD011	D10T	2000hr	8255/01	12-5-25	33696

Are the cab seals in good condition? Circle answer Yes / No

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FILTER SUPPLY & CORRECTION LIST

	CAT P/N#	Catamac P/N#	QTY	INTERVAL
ENGINE:	1R-1808	57792	2	250/500/1000/2000
FUEL:	1R-0755	CF30309	1	250/500/1000/2000
FUEL /WATER:	326-6143	CF30670	1	250/500/1000/2000
AIR PRIMARY:	6I-2505	CA40721	2	500/1000/2000
AIR SECONDARY:	6I-2506	CA40731	2	250/500/1000/2000
CABIN INNER:	209-8217	24606	1	500/1000/2000
CABIN PRE-CLEANER:	238-0479	WP10174	1	500/1000/2000
CABIN OUTER:	231-0167	CA40318	1	500/1000/2000
FILTER HYD RETURN:	139-1537	CH52429	2	500/1000/2000
FILTER HYD TANK:	249-2337	57195	1	500/1000/2000
FILTER HYD PILOT:	130-3212	57613	1	500/1000/2000
FILTER TORQUE CONVERTOR:	1R-1809	CH52197 CH52199	1	500/1000/2000
FILTER TRANS:	1R-1809	CH52197 CH52199	1	500/1000/2000

NOTES:

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 Rev No | [Rev No]
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 Rev Details | Included cab pressure check signoff

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 Custodian | Senior Maintenance Planner
 Approved By | Plant Manager

PO = Parts Ordered

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Mark as N/A if not applicable.

COMPARTMENT	CLEAN / OK	CATEGORY 1	CATEGORY 2	CATEGORY 3	CATEGORY 4	CATEGORY 5
FINAL DRIVE POS 1	✓					
FINAL DRIVE POS 2	✓					
OTHER: _____						

CATEGORY 1 LARGE AMOUNT OF PASTE	CATEGORY 2 SMALL FLAKES & PASTE	CATEGORY 3 CHIPS, FLAKES & PASTE	CATEGORY 4 LARGE CHIPS & FLAKES	CATEGORY 5 LARGE PIECES OF METAL
				
CONTINUE TO MONITOR.	INSPECT OTHER PLUGS AND FILTER FOR COMPARTMENT.	FLUSH COMPARTMENT, ADVISE SUPERVISOR & PLANNERS.	ADVISE SUPERVISOR & INSPECT COMPONENT FOR FAILURE.	ADVISE SUPERVISOR. STAND MACHINE DOWN UNTIL FAILURE IS DIAGNOSED & REPAIRS ARE CARRIED OUT.

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	DESCRIPTION	S or T	250	500	1,000	2,000	COMMENT
WALK AROUND	Inspect underside of machine for oil / coolant leaks	T				✓	Trans pump & Drive
	Inspect machine frame for damage & cracks	T				✓	
	Inspect all hoses for condition and security	T				✓	
	Inspect wiring harnesses for damage / clamping	T				✓	
	Inspect condition and mounting of access ladders and handrails	T				✓	
CHASSIS	Clean and lubricate battery terminals	T				✓	
	Tighten battery hold down bolts	T				✓	
	Fill windscreen washer bottle	S				✓	
	Clean rocks / debris from radiator guard	T				✓	
	Check fire suppression test date (if installed)	T				N/A	6 month max
	Check fire extinguisher test date	T				✓	March 25 6 month max
	Grease lift cylinder yoke bearings	S				✓	
	Measure radiator guard pin joint wear (instruction following)	T				✓	max 1.2 mm total guard movement
ENGINE	Replace engine outer air filter	S				✓	Ensure dust mask is worn
	Replace engine inner air filter	S				✓	Ensure dust mask is worn
	Check coolant level	S				✓	
	Inspect fuel lines / hoses for damage / wear	T				✓	
	Check fan motor hydraulic hoses for condition	T				✓	
	Check engine compartment for oil leaks	T				✓	
	Sample engine oil	S				✓	
	Replace engine oil	S				✓	SINOPEC TULUX T500 15W-40
	Replace engine oil filter	S				✓	
	Inspect / adjust vee belts	T				✓	
	Replace primary fuel filter / water separator element	S				✓	
	Replace secondary fuel filter	S				✓	
	Sample cooling system	S				✓	Replace on SOS recommendation Cummins PGXL (GCM Site)
POWER TRAIN	Check both final drive oil levels	S				✓	
	Inspect both final drive magnetic plugs for particles	T				✓	
	Check transmission oil level	S				✓	
	Sample transmission oil	S				✓	SINOPEC TRANS TO-430
	Sample both final drive oils	S				✓	PUMA HD DRIVE TRAIN 50

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	DESCRIPTION	S or T	250	500	1,000	2,000	COMMENT
	Clean transmission screen	S				✓	
	Clean transmission breather	S				✓	
	Replace transmission oil filter	S				✓	
	Inspect torque converter compartment for oil leaks	S				✓	
	Inspect torque converter compartment hoses	T				X	Replace x1 ✓
	Check pump driveshaft universal joint wear	T				✓	
	Check main driveshaft universal joint wear	T				✓	
	Clean transmission magnetic screen	T				✓	
	Clean torque converter scavenge screen	T				✓	
	Replace transmission oil	S				✓	SINOPEC TRANS TO-430
	Replace final drive oil	S				✓	PUMA HD DRIVE TRAIN 50
	Check hydraulic tank oil level	S				✓	
						✓	
						✓	
HYDRAULIC	Inspect hydraulic hoses, crimps & connections for leaks / damage. Ensure p-clamps and hose mounts are in good condition and secure	T				✓	
	Sample hydraulic tank oil	S				✓	SINOPEC TRANS TO-430
	Replace hydraulic filters	S				✓	
	Inspect all internal pipes inside hydraulic tank for cracks	T				✓	(Refer to note 1)
	Replace hydraulic pilot filter	S				✓	Remove front cover on tank to inspect
	Replace hydraulic oil	S				✓	SINOPEC TRANS TO-430
	Inspect belly plate hinges for cracks / damage / missing or loose fasteners	T				✓	
UNDERCARRIAGE	Check pivot shaft oil level	S				✓	
	Check / adjust tracks	T				✓	Track sag – idler to sprocket 155mm ± 10mm
	Conduct undercarriage appraisal	T				✓	On rear of sheet
	Check oil level in outer equalizer bar joints and top-up if necessary. If grease filled ensure adequate grease supplied	T				✓	
	Check recoil compartment oil level	S				✓	"Note" These are oil filled not Grease Packed.
	Measure outer equalizer bar pin joint wear (bar to track frame)	T				✓	Max 1.5 mm per pin joint
	Measure center equalizer bar pin joint wear (bar to main frame)	T				✓	Max 2.54 mm per pin joint
	Measure pivot shaft joint bearing wear (frame to track frame)	T				✓	Max 5 mm
	Lower and clean engine belly plate	T				✓	Follow lowering procedure and or site procedures
	Lower and clean torque converter belly plate	T				✓	Follow lowering procedure and or site procedures
	Inspect cutting edges, replace if required	T				✓	

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	DESCRIPTION	S or T	250	500	1,000	2,000	COMMENT
IMPLEMENTS	Inspect ripper boot and shroud, replace if required	T				✓	
	Grease ripper linkage	S				✓	
	Measure blade lift cylinder rod pin joint wear	T				✓	o.k. Max 3 mm
	Measure blade lift cylinder trunnion wear	T				✓	o.k. Max 3 mm
	Measure / adjust blade side arm trunnion ball clearance	T				✓	Max 4mm clearance per pin joint
	Measure ripper pin joint wear	T				✓	o.k. Max 2mm clearance
	Inspect / replace windscreen wiper blades as req'd	T				✓	o.k. Max 4 mm per pin joint
CAB	Replace outer cab air filter	S				✓	Ensure dust mask is worn
	Replace inner cab air filter	S				✓	Ensure dust mask is worn
	Inspect ROPS bolts for loose damaged	T				✓	
	Inspect operators seat suspension for wear	T				✓	
TEST OPERATION	Test operation of all instruments	T				✓	
	Test operation of wipers and washers	T				✓	LH wiper seize.
	Test operation of back up alarm	T				✓	
	Test operation of warning horn	T				✓	
	Test operation of air conditioner	T				✓	
	Test operation of all radios	T				✓	
	Test operation of seat belt / inspect belt / latch condition	T				✓	Replace every 3 yr
	Test operation of steering	T				✓	
	Test operation of park brake	T				✓	
	Test operation of service brake as per the following procedure	T				✓	
	Test operation and trans lock out on step access system	T				✓	

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COMPARTMENT DRAIN / FILL PLUGS	S or T	250	500	1,000	2,000	COMMENTS
Check engine oil drain plug for tension	T					Print name: _____ Signed: _____ Date: __/__/__
Check final drive drain and fill plugs for tension	T				✓	Print name: <u>TRACOLAN</u> Signed: <u>[Signature]</u> Date: <u>12/5/25</u>
Check transmission drain plug for tension	T					Print name: _____ Signed: _____ Date: __/__/__
Check hydraulic drain plug for tension	T					Print name: _____ Signed: _____ Date: __/__/__

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Braking System - Test

Warning

If the machine moves during the test, reduce the engine speed immediately, and engage the parking brake.

If the machine moved while testing the brakes, consult your Caterpillar dealer for brake inspection and repair. Damaged brakes must be repaired before returning the machine to operation.

Note: The machine can be driven through the brakes in first gear.

- Make sure that the area around the machine is clear of personnel and clear of obstacles.
- Test the brakes on a dry, level surface.
- Fasten the seat belt before you test the brakes.

The following test is used to determine whether the service brake is functional. This test is not intended to determine the maximum brake holding effort. This machine's brake holding effort will be different from other machines because of variations in the engine setting, in the power train efficiency, and in the brake holding ability.

1. Start the engine.
2. Raise all attachments.
3. Apply the service brakes.
4. Release the parking brake.
5. While the brake pedal is depressed, move the directional control to the SECOND SPEED FORWARD position.
6. Gradually increase the engine speed to HIGH IDLE. The machine should not move.
7. Move the directional control to the NEUTRAL position.
8. Reduce the engine speed to LOW IDLE.
9. Engage the parking brake.
10. Lower all attachments to the ground.
11. Apply a slight down pressure.
12. Stop the engine.

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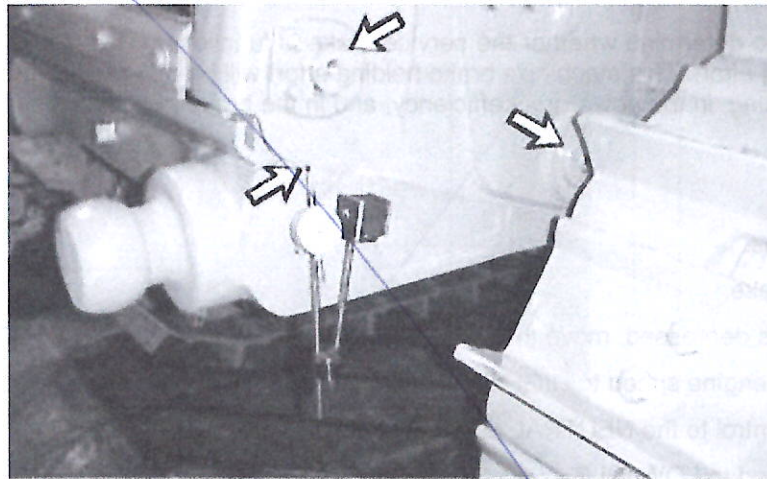
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NOTICE

If the machine moved while testing the brakes, contact your Caterpillar dealer. Have the dealer inspect and, if necessary, repair the service brake before returning the machine to operation.

Radiator Guard Pin Joint – Measure

1. Park on a level surface.
2. Raise the bulldozer blade.
3. Install the magnetic base of a dial indicator on the main frame of the machine. Place the tip of the indicator on the bottom edge of the radiator guard directly beneath one of the pins.
4. Lower the bulldozer blade. Apply sufficient down pressure in order to raise the front of the machine off the ground.
5. If the travel of the indicator is more than 1.2 mm, replace the pin and replace the bushing.
6. Check the other three pin locations.

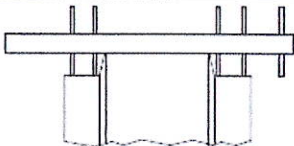
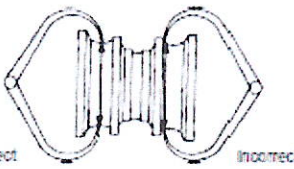
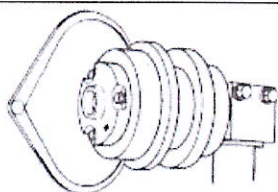
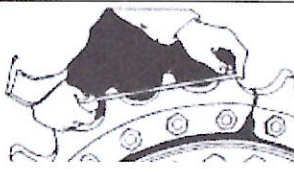
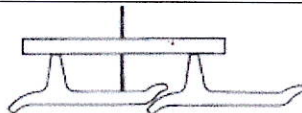
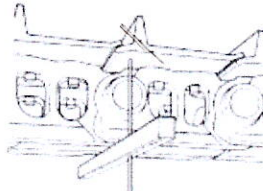
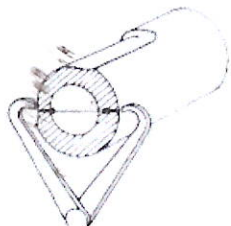


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D10T Undercarriage Appraisal – To be Conducted Every 250 Hours

Description	Illustration	Comments
Idler		Position the CAT depth gauge above the idler, press 4x pins down as depicted in the illustration. Measure the length of all 4x posts and use the largest measurement to determine the percentage worn.
Roller		Position the caliper so the tips of the caliper are touching the tread in its most worn position on the diameter. Pass the caliper back and forth to find the true minimum diameter. Measure both the inner and outer tread flange noting the most worn measurement to determine the percentage.
Carrier Roller		Position the caliper so the tips are touching the tread in its most worn position on the diameter. Measure both inner and outer tread flanges noting the most worn measurement to determine the percentage.
Sprockets		Using a tape measure, measure the distance between the drive side of one tooth tip and the opposite drive side of a sprocket tooth tip 3 teeth away on the same segment. Note; Measurements on sprockets with less than 30% life are unreliable and should be avoided
Grouser		Position the CAT depth gauge on 2x adjacent grousers roughly 1/3 of the way in from the outer edge of the shoe. Press 1x pin down to the top of the grouser plate.
Links		Position the CAT depth gauge across the underside of the link in line with the center of a track pin as depicted in the illustration. Press the pin to the underside of the grouser plate ensuring the measurement is taken as close to the center pin as possible
Bushings		Position the caliper across the bushing as depicted in the illustration. The bush will wear in 3x locations (forward, reverse and vertical) as it contacts the segment. Measure all 3x positions and take the most worn measurement to calculate the percentage worn. Note; If bushes have been turned, wear measurements will no longer be valid.

Yes ☐ No ☐	Has all parts that require measuring been cleaned?
Yes ☐ No ☐	Have the bushes been previously turned?
Yes ☐ No ☐	Are all bogie pad and equalizer bar pads in good condition?
Yes ☐ No ☐	Was the machine working prior to the track inspection?
Yes ☐ No ☐	Do the tracks have any hot links?

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Note;

If the tracks have a hot links, please notify the supervisor so the tracks can be scheduled for change out and mark the defective link in survey marking paint.

Position	Type	LH	RH	Specs	
				New	100% Worn
NRW TRACK ID	N/A				
Front Idler	N/A			20mm	36mm
Roller 1	SF			278mm	207mm
Roller 2	SF			278mm	207mm
Roller 3	DF			268mm	207mm
Roller 4	DF			268mm	207mm
Roller 5	DF			268mm	207mm
Roller 6	DF			268mm	207mm
Roller 7	SF			278mm	207mm
Roller 8	SF			278mm	207mm
Rear Idler	N/A			20mm	36mm
Carrier Roller	N/A			278mm	207mm
Sprockets	N/A			287mm	260.5mm
Grousers	N/A			101mm	38mm
Links	N/A			181mm	164.5mm
Bushings	N/A			95mm	87.6mm

Comments:

Tradesman Name:

Tradesman Signature:

Supervisor Name:

Supervisor Signature:

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