



KEE Group

nit No:

K499

Site:

**PM Service & Inspection - Caterpillar D6T Dozer****Clean unit before carry out PM SERVICE**Make sure the **Unit Backlog** file should be attached on this sheet.
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**DOWN TIME INFORMATION**Date equipment down 17/8/23 Time : \_\_\_\_\_Date equipment up 17/8/23 Time : \_\_\_\_\_Service Meter Reading ( SMR ) 5940 Hrs.

Date \_\_\_\_\_

Supervisor \_\_\_\_\_

Signature \_\_\_\_\_

ITEM	PART NUMBER	PART NUMBER	DESCRIPTION	SERVICE TYPE / QUANTITY			
	Filter	Seal/Oring		250	500	1000	2000
1	1R1808		Engine Oil		1	1	1
2	2400041		Engine breather			1	1
3	326-1644	2208678	Fuel Filter Primary		1	1	1
4	1R0762		Fuel Filter Secondary		2	2	2
5	6I-2501		Primary - Air		1	1	1
6	6I-2502		Secondary - Air			1	1
7	9X-2205		Fuel Cap Filter Kit		1	1	1
8	1R0777	2H6124	Hydraulic Filter		1	1	1
9	465-6502		Steering filter		1	1	1
10	3283655	1300229	Transmission Filter		2	2	2
11	9G5127		Transmission breather			1	1
12	9X8600	9X8600	Fuel Tank Cap Seal				1
13	6T5068	3D2824	AC Filter			1	1
14	6T0988		Cab Air Filter			1	1
15	1757162		Reciever Dryer				1
16			<b>Cat SOS Bottles</b>	1	5	5	6
			<b>Total Items</b>	<b>1</b>	<b>15</b>	<b>20</b>	<b>23</b>
1	SAE 15W-40	Engine Oil	Refill Capacity	43 liters			
2	SAE 15W-40	Hydraulic Tank	Refill Capacity	75 liters			
3	Cat TDTO-TMS	Transmission (Winter)	Refill Capacity	155 liters			
3	SAE 50	Transmission (Summer)	Refill Capacity	155 liters			
4	SAE 60	Final drives	Refill Capacity	13 liters each			
5	SAE 85W-140	Equalizer bar	Refill Capacity	As required			
5	SAE 50	Pivot shaft	Refill Capacity	44 liters			
5	SAE 50	Recoil spring compartment	Refill Capacity	37 liters each			
5	Long life coolant	Cooling System	Refill Capacity	75 liters			
6	Diesel	Fuel Tank	Refill Capacity	642 liters			

<b>I</b>	<b>PRE STOP CHECK</b>
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TASK	TYPE OF SERVICE			
<b>INITIAL EACH COMPLETED CHECK</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>

1	Check pre start book for completion and listed faults		✓		
2	Check operation of monitor panel lights, guages and buzzer		✓		
3	Check for excessive play & wear in push arm pins / bushes and trunions		✓		
4	Check for excessive play & wear in ripper assembly pins / bushes and joints.		✓		
5	Inspect hydraulic rods in the extended position for scratches or damage.		✓		

<b>II</b>	<b>SAFETY</b>
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6	Isolate and park machine on a level surface		✓		
7	Lower the works equipment to the ground		✓		
8	Stop the engine and allow cool down		✓		
9	Isolate machine and fit "Personal & Out of Service Tag"		✓		

**"CAUTION"**

<b>" Fuel/Oil leaked or spilled onto hot surfaces or electrical components can cause a FIRE. Clean up fuel spills Immediately"</b>
<b>The Person who drains the Oil is Responsible for Refilling the Compartment</b>
<b>OILS AND LIQUIDS IN ALL COMPARTMENTS MAYBE HOT AND CAUSE SERIOUS INJURY</b>
<b>TAKE CARE WHEN DRAINING ANY COMPARTMENT</b>
<b>* CONSULT MAINTENANCE GUIDE FOR LUBE POINTS and PROCEDURES</b>

### III

### SERVICE & LUBRICATION (PM CLINIC)

#### SERVICE and LUBRICATION

			250	500	1000	2000
10	Record Hour Meter Reading	SMR				
<b>Engine</b>						
11	Clean the air filter service cap and dust extraction valve			✓		
12	Replace primary air filter element		As Req.	✓		
13	Replace secondary air filter element					
14	Wash radiator and hydraulic coolers / intercooler / AC condensor					
15	Check coolant sub tank level			✓		
16	Lubricate fan and jockey pulley bearing if req. (by Hand grease pump only)			✓		
17	Check coolant level and "Do not Open Red Cap" if engine is hot			✓		
18	Take <b>SOS Sample</b> - Engine coolant, replace every 4000 HRS					
19	Take <b>SOS Sample</b> - engine oil					
20	<del>Clean</del> /replace engine crankcase breathers			✓		Replace
21	Change oil - engine and check level			✓		
22	Change filter - engine oil			✓		
<b>Fuel System</b>						
23	Change filter - primary fuel ( fuel-water separator )			✓		
24	Change filter - secondary fuel			✓		
25	Drain off condensate and sediment from fuel tank			✓		
26	Clean strainer			✓		
27	Inspect / replace fuel tank cap					
<b>Transmission / Torque Converter</b>						
28	Check oil level - Transmission			✓		
29	Take <b>SOS Sample</b> - Transmission					
30	<del>Clean</del> /replace breathers			✓		Replace
31	Change filter - Transmission			✓		
32	Change oil - Transmission					



**Hydraulic System**

33	Check oil level - hydraulic		✓		
34	Take <b>SOS Sample</b> - hydraulic oil				
35	Change filter - steering		✓		
36	Change filter - hydraulic		✓		
37	Change filter - hydraulic pilot system		✓		
38	<u>Clean</u> /replace hydraulic tank breather		✓		
39	Change oil - hydraulic				
40	Replace worn hoses as required				

**Final drives**

41	Check oil level - final drives		✓		
42	Take <b>SOS Sample</b> - final drives				
43	Change oil - final drives				
44	Inspect magnetic plugs				

**Tracks and Undercarriage**

45	Check oil level - Pivot shaft		/		
46	Check oil level - equalizer bar		/		
47	Check oil level - recoil spring compartment		/		

**Lubrication System**

48	Check the lubrication system grease reservoir level if applicable		/		
49	Check the pipes, hoses and lubrication points of the lubrication system		/		
50	Lubricate all manual grease points		/		

**Cab heating and air conditioning**

51	Lubricate ALL doors hinges		/		
52	Check/replace the fresh air filter		/		
53	Check/replace the AC air filter		/		

**IV****MECHANICAL CHECK AND INSPECTIONS****1. Cabin**

54	Check operator access-steps and handrails		/		
55	Check door latches and window catches.		/		
56	Check operator seat belt replace at 3000 hrs		/		
57	Check operator seat and adjustment control		/		
58	Check operation and condition of windscreen wipers and blades		/		
59	Check for any oil / fluid leaks onto / into cabin		/		
60	Check the ROPS and platform for cracks, damage and loose bolts.		/		

**Air Conditioning**

61	Check air conditioner and record vent temp			/	
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**Lamps, Horn, Back-up Alarm, Battery and Fuses/CB**

62	Check isolators, e-stops, fuses and circuit breakers		/		
63	Check cab lights, warning lights, horn, back-up alarm and reverse camera		/		
64	Check all lights		/		
65	Check condition of batteries, cables and hold down clamps		/		

**Others**

66	Check pressure gauge fire extinguisher (AFFF) record tag date		/		
67	Check fire extinguisher bracket for loose bolts or cracks		/		
68	Check all warning decals are in place		/		

**2. Engine Area****Engine**

69	Check engine oil pressure refer manual record result				
70	Check engine boost pressure refer manual record result				
71	Check and set engine valve clearance every 4000 hrs				4000 hrs
72	Check air intake lines are complete without damage or cracks		/		
73	Check condition of cooling fan		/		
74	Check condition and tension of all engine belts		/		
75	Check engine emergency stop and test function		/		
76	Check fan hub and jockey pulley bearings		/		
77	Check fan guard is in place and secure		/		
78	Check for oil leaks into engine area		/		
79	Check exhaust system for leaks / cracks / broken all loose bolts		/		
80	Check sensors and cable connections		/		
81	Check ALL turbocharger pipes and clamps for tightness		/		
82	Check ALL engine wiring harnesses are free from rubbing "P" clamps ETC		/		
83	Check alternator cables / starter motor cables / mounting bolts and brackets.		/		



**Fuel System**

84	Check fuel pressure refer to manual record result					
85	Check high / low idle and record result					
86	Check fuel lines for leaks / missing clamps		/			
87	Check fuel tank breather		/			
88	Check fuel tank mounts		/			

**Radiator**

89	Check water pump and tell tale hole for leaks. Replace Thermostats every 3000 hrs		/			3000 hrs
90	Check ALL water hose condition and clamps		/			
91	Check condition of water lines and radiator core clean if required		/			
92	Check radiator mounting		/			

**3. Hydraulic System**

93	Check cycle times blade raise / lower / tilt refer manual record result					
94	Check cycle times ripper raise / lower / tilt refer manual record result					
95	Check suction line clamps of hydraulic pump for tightness		/			
96	Check hydraulic cylinder for damage or loose bolts.		/			
97	Inspect ALL hydraulic hoses / pipes for damage		/			
98	Check hydraulic control valves / pumps for loose bolts and cracked bracket.		/			
99	Check steering for correct operation		/			

**Brake system**

100	Check service and park brake operation		/			
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**Tracks and Undercarriage**

101	Check / adjust track tensions		/			
102	Check condition and mounting of sprockets		/			
103	Check condition of track rollers, idlers and carriers		/			
104	Check condition of tracks and track guides		/			
105	Check condition and wear of equalizer bar and pins		/			

**4. Frame****Frame**

106	Check GET condition		/			
107	Check the push arms and blade for damage and cracks		/			
108	Check the ripper assembly for damage and cracks		/			
109	Check pivot shaft for wear		/			
110	Check equalizer bar and pivot shaft for leaks		/			
111	Check ALL machine frame mounting bolts (ENGINE HOUSE / HYDRAULIC TANK ETC)		/			
112	Check belly plates / counter weight / Fuel tank / Hydraulic tank for damage / leaks or Loose Bolts		/			

**VI****COMPLETION**

113 Check ALL compartment oil Levels " BEFORE STARTING THE MACHINE"		/		
114 Test drive and check for unusual noises		/		
115 Remove "Personal & Out of Service Tag"		/		

**Task Special Instruction..**

PLEASE Report any DEFECTS or unusual findings to Leading Hand or workshop manager  
Lead Hand must be fill in the DEFECT Report if any.

This document is a guide and must be used in conjunction with the manufacturers maintenance manual.

**List of Serviceman or DONE BY**

Name of Personnel  
MAX SMYTH

Signature

SIGNED ON BEHALF  
OF MECHANIC

**ADDITIONAL ITEMS FOR BACKLOG**

ITEM	Unit ID	DESCRIPTION OF DEFECT	HRS TO COMPLETE	PARTS	
				IN STOCK	LOCATION
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

Signed Mechanic: \_\_\_\_\_

Signed Supervisor: \_\_\_\_\_



