

INTERNAL KEEGROUP USE ONLY

Job Sheet

Site Address:

Acct Name:

Site Contact:

Site Phone No:

Job Header: Carry out 2000hr service

Customer Notes:

Job Number 2050050335

Job Date 19/06/2025

Order No.

Technician: LARRY

☐ Warranty

☐ Repair/Recharge

☐ Service

☐ Backlog

Certificate No:

On Hire Date:

OFF Hire Date:

Start Time: _____

Finish Time: _____

Work Required :

Job Item	Rego #	Item Description	Test Code	Last Meter	Current Meter
K0282	1EKD773	Caterpillar 140M Grader		12,007.00	11993

Product Code	Description	Quantity	Sell Price	Total Sell Price
CATAMAC 2000	CATAMAC 2000HR SERVICE KIT	1.00	0.00	0.00

Service Notes

Description	Hrs	Qty	Cost
SERVICE			
ENGINE OIL 15W 40		30 LITRES	
GEAR OIL 450		70 LITRES	
HYD OIL TTM 10L/30		60 LITRES	
GEAR OIL 85/140		7 LITRES	
TRANS OIL 430		60 LITRES	
S3 SAMPLES		4	
70-625	88		
23-6-25	7		

Total Labour Hours: _____ Travel Hours: _____

Manager: _____ Date: ____/____/____ Technician: LARRY

Unit No: **K282**Site: **DEPOT****PM Service & Inspection - Caterpillar 140M Grader****Clean unit before carry out PM SERVICE**Make sure the **Unit Backlog** file should be attached on this sheet.

DOWN TIME INFORMATION

Date equipment down _____ Time : _____

Date _____

Date equipment up _____ Time : _____

Supervisor _____

Service Meter Reading (SMR) **11993** Hrs.

Signature _____

ITEM	PART NUMBER	PART NUMBER	DESCRIPTION	SERVICE TYPE / QUANTITY			
	Caterpillar	Inter Change		250/750	500	1000	2000
1	1R-1807		Engine Oil	1	1	1	1
2	326-1644		Fuel/Water Separator	1	1	1	1
3	220-8678		Separator Bowl Seal	1	1	1	1
4	1R-0749		Fuel Filter Tertiary	1	1	1	1
5	1R-0762		Fuel Filter Secondary	1	1	1	1
6	245-6375		Primary - Air Filter		1	1	1
7	245-6376		Secondary - Air Filter			1	1
8	149-1912		Cab Outer Air Filter		1	1	1
9	211-2660		Cab Inner Air Filter		1	1	1
10	1G-8878		Transmission Filter		1	1	1
11	130-0229		Transmission Seal		1	1	1
12	9G-5127		Breather Tans/Differential			1	1
13	4H-6112		Breather Tandem Drive				2
14	1G-8878		Hydraulic Filter Implement				1
15	130-0229		O-ring Hydraulic return				1
16	328-3655		Hydraulic Filter Return				1
17	316-5366		Ring-backup				1
18	2J-8163		Front Hub Seal				2
19	3K-0360		Drain Bung Seal				4
20			Cat SOS Bottles	1	4	8	8
			Total Items	6	14	20	32
1	XDO 15W40	Engine Oil	Refill Capacity		30 Litres		
2	HVI 46 Hi temp	Hydraulic System	Refill Capacity		65 Litres		
3	Torque Oil 30	Transmission/ Diff housing	Refill Capacity		65 Litres		
4	Torque Oil 30 50	Tandem drive each	Refill Capacity		64 Litres		
5	Cat ELC	Cooling System	Refill Capacity		44 Litres		
6	80W90 OR 85W140	Circle Drive Housing	Refill Capacity		7 Litres		
7	Torque Oil 30	Front Wheel Spindle Housing	Refill Capacity		.5 Litre		
8	Diesel	Fuel Tank	Refill Capacity		416 Litres		

Task Details Caterpillar 140M

Done: **Initial** Not Done: ***** Repairs or Adjustments Done: **R** Work Order or Further Work Required: **W**

Procedures and Safety Instructions

I **PRE STOP CHECK**

TASK	TYPE OF SERVICE			
	250	500	1000	2000
INITIAL EACH COMPLETED CHECK				
1 Check pre start book for completion and listed faults				✓
2 Check operation of monitor panel lights, guages and buzzer				✓
3 Check accumulator: raise boom fully, stop engine, lower loader arm to ground.				✓
4 Check for excessive play & wear in loader arm pins / bushes and joints.				✓
5 Check for excessive play & wear in bucket pins / bushes and joints.				✓
6 Check for excessive wear in steering pins and bushes				✓
7 Check for excessive wear in the centre hitch pins and bearings				✓
8 Inspect hydraulic rods in the extended position for scratches or damage.				✓

II **SAFETY**

9 Isolate and park machine on a level surface and place wheel chocks behind front / rear tyres				✓
10 Lower the works equipment to the ground				✓
11 Stop the engine and allow cool down				✓
12 Isolate machine and fit "Personal & Out of Service Tag"				✓

"CAUTION"

* Fuel/Oil leaked or spilled onto hot surfaces or electrical components can cause a FIRE. Clean up fuel spills Immediately"

The Person who drains the Oil is Responsible for Refilling the Compartment

OILS AND LIQUIDS IN ALL COMPARTMENTS MAYBE HOT AND CAUSE SERIOUS INJURY

TAKE CARE WHEN DRAINING ANY COMPARTMENT

*** CONSULT MAINTENANCE GUIDE FOR LUBE POINTS and PROCEDURES**

Task Details Caterpillar 140M

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Procedures and Safety Instructions

III

SERVICE & LUBRICATION (PM CLINIC)

SERVICE and LUBRICATIONS (Manual Hand Grease Pump)

		250	500	1000	2000
13	Record Hour Meter Reading SMR				
Engine					
14	Clean the air filter service cap and dust extraction valve				✓
15	Change the main air filter element when indicated by the vacuum switch or upon inspection is found to be dirty				✓
16	Change secondary air filter element when upon inspection is found to be dirty				✓
17	Check coolant level and "Do not Open Rad Cap" if engine is hot				✓
18	Wash radiator and hydraulic coolers / intercooler / AC condensor (Every 1000Hrs)				✓
19	Check coolant sub tank level				✓
20	Lubricate fan and jockey pulley bearing (by Hand grease pump only)				✓
21	Clean engine crankcase breathers replace if required			Change	Change
22	Take SOS Sample - engine oil				✓
23	Change oil - engine and check level				✓
24	Change filter - engine oil				✓
Fuel System					
25	Change filter - primary fuel (fuel-water separator)				✓
26	Change filter - secondary fuel				✓
27	Drain off condensate from the fuel pre-filter				✓
28	Drain off condensate and sediment from fuel tank				✓
29	Clean strainer - fuel tank cap				✓
Transmission / Differential					
30	Check oil level - Transmission				✓
31	Take SOS Sample - Transmission / Differential				✓
32	Change oil - Transmission / differential				✓
33	Change filter - Transmission / differential, clean screens				✓
Tandem Drive					
34	Take SOS Sample - Tandem drives				✓
35	Check oil level - Tandem drives				✓
36	Change Oil - Tandem drives				✓
37	Clean / Replace - Tandem Breathers				✓
Hydraulic System					
38	Take SOS Sample - hydraulic oil				
39	Check oil level - Hydraulic				
40	Change hydraulic oil as per SOS results				
41	Change filter - Hydraulic tank return				
42	Change filter - Implement controls				
43	Drain water sediment from hydraulic tank				

Task Details Caterpillar 140M

Done: **Initial** Not Done: **X** Repairs or Adjustments Done: **R** Work Order or Further Work Required: **W**

Procedures and Safety Instructions

Circle Drive

44	Take SOS Sample - Circle drive					✓
45	Change oil - Circle drive					✓
46	Check oil level - Circle drive					✓

Brake system

47	Check the service brake and parking brake record results in RPM hold					✓
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Wheel Bearings

48	Take SOS Sample - Front wheel bearings					✓
49	Check oil level - Front wheel bearings					✓
50	Change Oil - Front wheel bearings					✓
51	Inspect magnetic plugs on axles if applicable					✓

Lubrication System

52	Check the lubrication system grease reservoir level (if applicable)					
53	Check the pipes, hoses and lubrication points of the lubrication system					
54	Lubricate articulation bearings					
55	Lubricate axle oscillation bearings					
56	Lubricate blade lift cylinder socket					
57	Lubricate centershift cylinder socket					
58	Lubricate centershift lock bar					
59	Lubricate drawbar ball and socket					
60	Lubricate kingpin bearings					
61	Lubricate ripper cylinder bearings					
62	Lubricate scarifier lift link socket					
63	Lubricate steering cylinder ends and tie rods					
64	Lubricate wheel lean bar bearings					
65	Lubricate wheel lean bearings					
66	Lubricate wheel lean cylinder bearings					
67	Lubricate work tool lift					
68	Lubricate circle drive pinion teeth					
69	Lubricate circle top					

Cab heating and air conditioning

70	Lubricate ALL doors hinges					
71	Clean the fresh air and recirculated air filter					
72	Change the fresh air and recirculated air filter					

Task Details Caterpillar 140M

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Procedures and Safety Instructions

IV

MECHANICAL CHECK AND INSPECTIONS

1. Cabin

73	Check operator access-step / hand holds				✓
74	Check door latches and window catches.				✓
75	Check operator seat belt consider replacement at 6000 hrs				✓
76	Check operator seat and adjustment control				✓
77	Check operation of windscreen wipers and inspect rubber condition				✓
78	Check for any oil / fluid leaks onto / into cabin				✓
79	Check the ROPS / cabin / platform for cracks / damage / wear and loose bolts.				✓

Air Conditioning

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

81	Check fuses and circuit breakers				✓
82	Check lights / horn and back-up alarm				✓
83	Check operation of ALL lights / warning Indicators.				✓
84	Check Battery terminals and cables / hold down clamps and general condition				✓

Others

85	Check pressure gauge fire extinguisher (AFFF) record tag date				✓
86	Check fire extinguisher bracket for loose bolts or cracks				✓

2. Engine Area

Engine

87	Check engine oil pressure refer manual record result				
88	Check engine boost pressure refer manual record result				
89	Check air intake lines are complete without damage or cracks				✓
90	Check vibration damper for cracks or peeling in the outside surface of the rubber				✓
91	Check and set engine valve clearance				✓
91	Check condition of cooling fan - ensure rivets are in good condition				✓
92	Check ALL V-belts (Conditions + Tension)				✓
93	Check belts of air conditioner compressor (Conditions + Tension)				✓
94	Check engine emergency stop and test function				✓
95	Check fan hub and jockey pulley bearings				✓
96	Check fan guard is in place and secure				✓
97	Check for oil leaks into engine area				✓
98	Check exhaust system for leaks / cracks / broken all loose bolts				✓
99	Check the state of sensors and cable connections				✓
100	Check ALL turbocharger pipes and clamps for tightness				✓
101	Check ALL engine wiring harnesses are free from rubbing "P" clamps ETC				✓
102	Check alternator cables / starter motor cables / mounting bolts and brackets.				✓

Task Details Caterpillar 140M

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Procedures and Safety Instructions

Fuel System

103 Check fuel pressure refer to manual record result						
104 Check high / low idle refer to manual record result						
105 Check fuel lines for leaks / missing clamps						✓
106 Check throttle linkage and fuel pump coupling for loose bolts ETC						✓
107 Check integrity of whole system						✓

Radiator

108 Check ALL water hose condition and clamps						✓
109 Check water pump and tell tale hole for leaks						✓
110 Check condition of water lines and radiator core clean if required						✓
111 Check radiator mounting						✓

3. Hydraulic System

112 Check hydraulic main pressure refer manual record result						✓
113 Check suction line clamps of hydraulic pump for tightness						✓
114 Check hydraulic cylinder for damage or loose bolts.						✓
115 Inspect ALL hydraulic hoses / tubes for damage						✓
116 Check hydraulic control valves for loose bolts and cracked bracket.						✓
117 Check Steering for correct operation and test emergency steer operation						✓
118 Check steering cylinder pins and bushes for wear						✓

Brake system

119 Check brake accumulator function (refer operation manual)						
120 Check brake disc wear (refer operation manual)						

Tyres

121 Check wheel nut torque refer manual for spec						✓
122 Check all tyre pressures refer inflation chart						✓
123 Check mounting bolts and clamps						✓

4. Frame

Frame

124 Check and adjust circle clearances						✓
125 Check and adjust centershift cylinder socket						✓
126 Check / Adjust draw bar ball and socket						✓
127 Check and adjust blade lift cylinder socket						✓
128 Check and adjust blade slide shims						✓
129 Check / replace blade cutting edge / scarifiers and ripper tips						✓
130 Check moldboard wear strip						✓
131 Check for excessive wear in the centre hitch pins, bearings and bushes						✓
132 Check ALL machine frame mounting bolts (ENGINE HOUSE / HYDRAULIC TANK TANDEM DRIVE ETC)						✓
133 Check Tandem drive / Fuel tank / Hydraulic tank for damage / leaks / Cracks etc						✓

Task Details Caterpillar 140M

Done: **Initial** Not Done: ***** Repairs or Adjustments Done: **R** Work Order or Further Work Required: **W**
Procedures and Safety Instructions

VI	COMPLETION
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134 Check ALL compartment oil Levels " BEFORE STARTING THE MACHINE"				✓
135 Test drive and check for unusual noises				✓
136 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.

List of Serviceman or DONE BY

Name of Personnel	Signature
L STEWART	

ADDITIONAL ITEMS FOR BACKLOG

ITEM	Unit ID		DESCRIPTION OF DEFECT	COMPLETED Y/N	PARTS	
	Model	Cat 140M			IN STOCK	LOCATION
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Signed Mechanic: 

Signed Supervisor: _____