

**KEE Group**Unit No: K594Site: PORT HEDLAND**PM Service & Inspection - Case 1021 Loader****Clean unit before carry out PM SERVICE**Make sure the **Unit Backlog file** should be attached on this sheet.

DOWN TIME INFORMATIONDate equipment down 6/04/23 Time : _____Date equipment up 11/04/23 Time : _____

Date

Supervisor

Signature

Service Meter Reading (SMR)

6028

Hrs.

ITEM	PART NUMBER	PART NUMBER	DESCRIPTION	SERVICE TYPE / QUANTITY			
				500	1000	1500	2000
	Case	Inter Change					
1	84565867	LF17557, P40031-MPG, HU1200X	Engine Oil	1	1	1	1
1		SO8034					
2	84348882	FS19821, BF1365	Fuel pre-filter	1	1	1	1
3	5801439820	FF5857, PF46003, SN80050	Fuel main filter	1	1	1	1
4	47996857	HF35498	Transmission oil filter	2		2	
5	84523925	HF6554, BT8841-MPG	Differential filter			2	
6	84523925	HF6554, BT8841-MPG	Hydraulic filter				2
7	504089127		Engine Breather		1		1
8	87356545	AF4204, P608667	Air filter outer	1	1	1	1
9	87356547	AF4201, P607557	Air filter inner	1	1	1	1
10	87712194	AF55738, P633082	Air con fresh filter	1	1	1	1
11	84389987	PA30276	Air con recirculation	1	1	1	1
12			Engine Belt		1		1
			Cat SOS Bottles	1	1	3	5
			Total Items	10	10	14	16
1	LSA Ultra Diesel 15W40	Engine Oil	Refill Capacity	28.5 Litres			
2	Tractor Transmission Universal	Hydraulic Tank	Refill Capacity	134 Litres			
3	Tractor Transmission Universal	Transmission case	Refill Capacity	45.4 Litres			
4	Tractor Transmission Universal	Axle Front / Rear	Refill Capacity	42 Litres ea			
5	Pre mix	Cooling System	Refill Capacity	56.8 Litres			
6	Diesel	Fuel Tank	Refill Capacity	473 Litres			

Task Details Case 1021 Loader

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

Procedures and Safety Instructions

I	<u>PRE STOP CHECK</u>
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TASK	TYPE OF SERVICE			
INITIAL EACH COMPLETED CHECK	500	1000	1500	2000
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	<u>SAFETY</u>
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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

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Procedures and Safety Instructions

III

SERVICE & LUBRICATION (PM CLINIC)

SERVICE and LUBRICATIONS (Manual Hand Grease Pump)			500	1000	1500	2000
13	Record Hour Meter Reading	SMR 				✓
<u>Engine</u>						
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	Change coolant					✓
19	Wash radiator and hydraulic coolers / intercooler / AC condensor (Every 1000Hrs)					✓
20	Change engine crankcase breathers replace if required					✓
21	Take SOS Sample - engine oil					✓
22	Change oil - engine and check level					✓
23	Change filter - engine oil					✓
<u>Fuel System</u>						
24	Change filter - primary fuel (fuel-water separator)					✓
25	Change filter - secondary fuel					✓
26	Drain off condensate from the fuel pre-filter					✓
27	Clean strainer - fuel tank cap					✓
<u>Transmission Case</u>						
28	Check oil level - Transmission case					✓
29	Take SOS Sample - Transmission case					
30	Change oil - Transmission case					
30	Change filter - Transmission case and clean strainer					
31	Clean transmission case breather					
<u>Hydraulic System</u>						
32	Take SOS Sample - hydraulic oil					✓
33	Check oil level - Hydraulic					✓
34	Change hydraulic oil					✓
35	Change filter - Hydraulic					✓
36	Clean hydraulic tank breather					✓
<u>Brake system</u>						
37	Check the service brake and parking brake operation					✓

Task Details Case 1021 Loader

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Procedures and Safety Instructions

Axles and tyres

38	Take SOS Sample - Axles				
39	Change diff cooling filters				
40	Check oil level - Axles				✓
41	Change oil - Axles				
42	Inspect magnetic plugs on axles if applicable				

Lubrication System

43	Check the lubrication system grease reservoir level (if applicable)				✓
44	Check the pipes, hoses and lubrication points of the lubrication system				✓

Lift arms and quick change device

45	Check the bucket bearing seals and bearing bushings on the lift arms				✓
46	Check the lift arms and bucket stops				✓

Cab heating and air conditioning

47	Lubricate ALL doors hinges				✓
48	Clean the fresh air and recirculated air filter				
49	Change the fresh air and recirculated air filter				✓

IV

MECHANICAL CHECK AND INSPECTIONS

1. Cabin

50	Check operator access-step / hand holds				✓
51	Check door latches and window catches.				✓
52	Check operator seat belt consider replacement at 6000 hrs				✓
53	Check operator seat and adjustment control				✓
54	Check operation of windscreen wipers and inspect rubber condition				✓
55	Check for any oil / fluid leaks onto / into cabin				✓
56	Check the ROPS / cabin / platform for cracks / damage / wear and loose bolts.				✓

Air Conditioning

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

58	Check fuses and circuit breakers				✓
59	Check lights / horn and back-up alarm				✓
60	Check operation of ALL lights / warning Indicators.				✓
61	Check Battery terminals and cables / hold down clamps and general condition				✓

Others

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

Task Details Case 1021 Loader

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

Procedures and Safety Instructions

2. Engine Area

Engine

64	Check air intake lines are complete without damage or cracks				✓
65	Check and set engine valve clearance				✓
66	Check condition of cooling fan - ensure rivets are in good condition				✓
67	Check ALL V-belts (Conditions + Tension)				✓
68	Check belts of air conditioner compressor (Conditions + Tension)				✓
69	Check engine emergency stop and test function				✓
70	Check fan hub and jockey pulley bearings				✓
71	Check fan guard is in place and secure				✓
72	Check for oil leaks into engine area				✓
73	Check exhaust system for leaks / cracks / broken all loose bolts				✓
74	Check the state of sensors and cable connections				✓
75	Check ALL turbocharger pipes and clamps for tightness				✓
76	Check ALL engine wiring harnesses are free from rubbing "P" clamps ETC				✓
77	Check alternator cables / starter motor cables / mounting bolts and brackets.				✓

Fuel System

78	Check high / low idle refer to manual record result				✓
79	Check fuel lines for leaks / missing clamps				✓
80	Check throttle linkage and fuel pump coupling for loose bolts ETC				✓
81	Check integrity of whole system				✓

Radiator

82	Check ALL water hose condition and clamps				✓
83	Check water pump and tell tale hole for leaks				✓
84	Check condition of water lines and radiator core clean if required				✓
85	Check radiator mounting				✓

Task Details Case 1021 Loader

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Procedures and Safety Instructions

3. Hydraulic System

8. Hydraulic System					
86	Check cycle time lift arms raise / lower refer manual record result				—
87	Check cycle time bucket roll in / roll out refer manual record result				—
88	Check suction line clamps of hydraulic pump for tightness				✓
89	Check hydraulic cylinder for damage or loose bolts.				—
90	Inspect ALL hydraulic hoses / tubes for damage				—
91	Check hydraulic control valves for loose bolts and cracked bracket.				✓
92	Check Steering for correct operation				✓
93	Check steering cylinder pins and bushes for wear				✓

Brake system

94	Check brake function (refer operation manual)				✓
95	Check park brake function (refer operation manual)				✓

Axles and tyres

Axles and tyres				
96	Check wheel nut torque refer manual for spec			✓
97	Check all tyre pressures refer inflation chart			✓
98	Check mounting bolts and clamps			✓

4. Frame

Frame.

99	Check bucket for cracks / pin bush movement and GET condition				✓
100	Check the loader arm for damage / cracks				✓
101	Check frame for signs of leaks / damage or cracks				✓
102	Check for excessive wear in the centre hitch pins, bearings and bushes				✓
102	Check ALL machine frame mounting bolts (ENGINE HOUSE / HYDRAULIC TANK ETC)				✓
103	Check counter weight / Fuel tank / Hydraulic tank for damage / leaks or Loose Bolts				✓

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Procedures and Safety Instructions

<u>VI</u>	<u>COMPLETION</u>
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104 Check ALL compartment oil Levels " BEFORE STARTING THE MACHINE"				—
105 Test drive and check for unusual noises				—
106 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
..... BEN	 B

ADDITIONAL ITEMS FOR BACKLOG

ITEM	Unit ID		DESCRIPTION OF DEFECT	COMPLETED Y/N	PARTS	
	Model	WA 380			IN STOCK	LOCATION
1			TILT CYLINDER NEED A SEAL KIT	Y	✓	
2						
3			TOTAL CONNECTIONS COMPLETED			
4			SEAL KIT INSTALL.			
5						
6			NORMAN & COREY INSTALLED			
7			CYLINDER TO K594 4/5/23			
8						
9						
10						

Signed Mechanic: _____

Signed Supervisor: MBJ