IT WHEEL LOADER SERVICE SHEET

FLEET NO: WL 62 NAME: Brenton

SERVICE TYPE: 500 MACHINE HOURS: 2,170

DATE:	FLEET No:				
SERVICE REQ'D:	**HOURS:**	**250hrs**	**500hrs**	**1000hrs**	**2000hrs**
Bucket Cutting Edges - Inspect/Replace			✓		
Bucket Tips - Inspect/Replace			✓		
Bucket Wear Plates - Inspect/Replace			✓		
Circuit Breakers and Fuses - Reset/Replace			✓		
Engine Air Filter Primary Element - Clean/Replace			✓		
Engine Air Filter Secondary Element - Replace			✓		
Engine Air Filter Service Indicator - Inspect			✓		
Engine Air Precleaner - Clean			✓		
Fuel System - Prime			✓		
Fuel System Primary Filter (Water Separator) - Drain			✓		
Fuel Tank Cap and Strainer - Clean			✓		
Oil Filter - Inspect			✓		
Quick Coupler - Check			✓		
Radiator Core - Clean			✓		
Window Washer Reservoir - Fill			✓		
Window Wipers - Inspect/Replace			✓		
Every 10 Service Hours or Daily					
Backup Alarm - Test			✓		
Cooling System Coolant Level - Check			✓		
Engine Oil Level - Check			✓		
Hydraulic System Oil Level - Check			✓		
Seat Belt - Inspect			✓		
Tire Inflation - Check			✓		
Transmission Oil Level - Check			✓		
Windows - Clean			✓		
Every 50 Service Hours or Weekly					
Articulation Bearings - Lubricate			✓		
Bucket Lower Pivot Bearings - Lubricate			✓		
Cab Air Filter - Clean/Replace			✓		
Tire Inflation - Check			✓		

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Every 100 Service Hours or 2 Weeks					
Axle Oscillation Bearings - Lubricate		✓			
Bucket Linkage and Loader Cylinder Bearings - Lubricate		✓			
Steering Cylinder Bearings - Lubricate		✓			
Every 250 Service Hours					
Cooling System Coolant Sample (Level 1) - Obtain		—			
Engine Oil Sample - Obtain		✓			
Every 250 Service Hours or Monthly					
Belts - Inspect/Adjust/Replace		✓			
Brake Accumulator - Check		—			
Braking System - Test		✓			
Drive Shaft Spline (Center) - Lubricate		✓			
Drive Shaft Support Bearing - Lubricate		✓			
Every 250 Service Hours or 3 Months					
Steering Column Play - Check		✓			
Every 500 Service Hours					
Differential and Final Drive Oil Level - Check		✓			
Differential and Final Drive Oil Sample - Obtain		—			
Fuel System Secondary Filter - Replace		✓			
Hydraulic System Oil Sample - Obtain		—			
Transmission Oil Sample - Obtain		—			
Every 500 Service Hours or 3 Months					
Engine Crankcase Breather (Closed Circuit) - Replace		—			
Engine Oil and Filter - Change		✓			
Fuel System Primary Filter (Water Separator) Element - Replace		✓			
Transmission Oil Filter - Replace		✓			
Every 500 Service Hours or 1 Year					
Cooling System Coolant Sample (Level 2) - Obtain		—			
Every 1000 Service Hours					
Hydraulic System Oil Filter - Replace					

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Every 1000 Service Hours or 6 Months					
Engine Crankcase Breather - Clean					
Engine Valve Lash - Check					
Rollover Protective Structure (ROPS) - Inspect					
Transmission Magnetic Screen - Clean					
Transmission Oil - Change					
Every 2000 Service Hours or 1 Year					
Axle Oil Cooler Screen - Clean/Replace					
Brake Discs - Check					
Differential and Final Drive Oil - Change					
Hydraulic System Oil - Change					
Hydraulic Tank Breather - Replace					
Every 3000 Service Hours					
Steering Column Spline (HMU Steering) - Lubricate					
Every 3000 Service Hours or 2 Years					
Cooling System Water Temperature Regulator - Replace					
Every 3 Years After Date of Installation or Every 5 Years After Date of Manufacture					
Seat Belt - Replace					
Every 6000 Service Hours or 4 Years					
Cooling System Coolant Extender (ELC) - Add					
Every 12 000 Service Hours or 6 Years					
Cooling System Coolant (ELC) - Change					

IT WHEEL LOADER SERVICE SHEET

Inspect and Comment on the following areas:
~~**Tracks:**~~
Tyres – OK
Rollers:
GET Condition: Serviceable
Panel Damage: N/A

Operational Checks	**Pass**	**Fail**	
Reverse Alarm	✓		
Lights/Indicators	✓		
EMS, CMS & Gauges	✓		
Audible Alarm	✓		
Horn	✓		

Comments. To include all oil leaks and notable defects:
* High beam lights blown (ordered 18-3-13)

IT WHEEL LOADER SERVICE SHEET

Continue on the back of the page if required.
Safety- Are there any defects which would render this unit unsafe to use?

		Maintenance Coordinators	
Service Completed by:	Brenton	Backlog Work Entered	
Signed:	B Goldsmith	Manager Notified of Repairs	
		Check Previous CTS Report	

Field Service Supervisor: _____

Signed: _____

Date: _____

Noise Report

Equipment Type: (IT) - WHEEL LOADER Number: WL-62

Make and Model: CATERPILLAR 938-H Date: 5/JUNE/2012

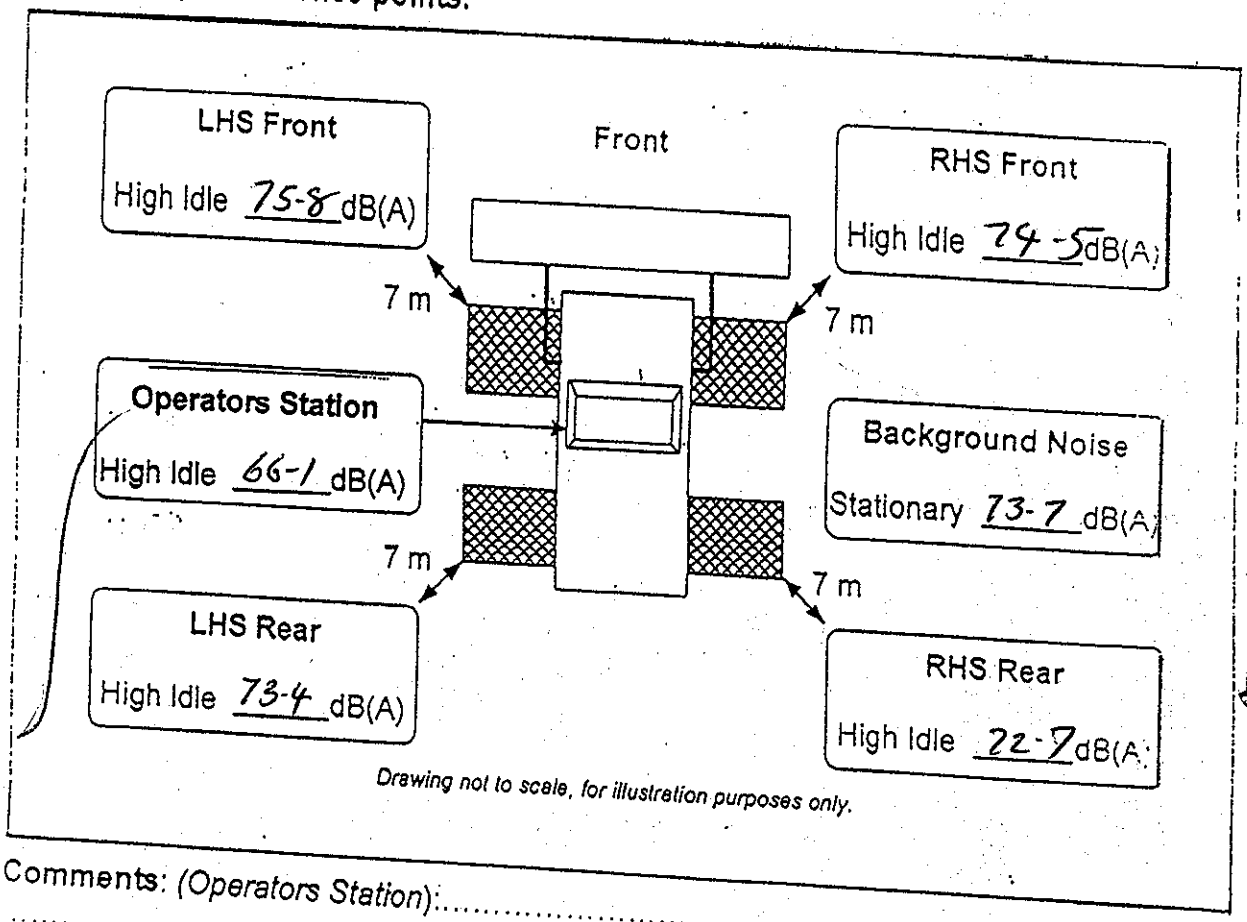
Tested By: David Jensen Signature:

Sound Meter Used: TECPEL "330"

Cabin Type:

- ☑ Fully Enclosed
- ☐ Overhead frame only
- ☑ Frame and side windows
- ☐ Open
- ☐ Other *(Specify)*.....

Noise sample reference points.



Comments: *(Operators Station)*:.....

Comments: *(Bystanders Area)*:.....

Comments: *(General)*:.....

DATE: 4-4-17. SMU: 3065.2 Hrs UNIT NUMBER: K WL62.
WORK COMPLETED BY: RYAN. NAME: _____

SAMPLE				Initial
Oil Compartment	**Sample Taken**		**Comments**	
Engine				RC
Hydraulic				RC
Transmission				RC
Front Differential				RC
Rear Differential				RC
~~Front Final Drive~~	~~LHF~~	~~RHF~~		N/A
~~Rear Final Drive~~	~~LHR~~	~~RHR~~		N/A
Coolant				N/A

CHANGE OUT				Initial
Compartment	**Oil**	**Filters**	**Comments**	
Engine	Change	Change, cut & inspect for debris		RC
Hydraulic System		Change steering & implement pilot		RC
Fuel System Secondary filter		Change		RC
Fuel System Primary filter Separator		Change		RC
Case Drain Oil		Change		RC
Transmission	Change	Change		RC
~~Boom Pin~~	~~Change~~			
~~Boom Cylinder pin~~	~~Change~~			

Magnetic Plug conditions				Legend		
RHF		LHF		***OK = OK***	***P = Paste***	N/A
RHR		LHR		***LF = Light Flakes***	***HF = Heavy Flakes – return to Supervisor***	N/A

GREASE		
Fill bulk grease tank		N/A
Check Auto Grease System operation. Grease Hoses for leaks		N/A
Drive Shafts ***(Hand Gun Only)***		SS

Comments:

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LUBRICATION			
Compartment	**Oil Grade**	**Capacity**	**Top Up**
Engine	MX 15W40	~~90L~~ 17.4	
Coolant	CAT ELC	~~95L~~	
Hydraulic Tank	10W (Total system holds 470L)	~~265L~~	
Transmission	30W	~~33L~~ 43	
Differential (Each)	60W	~~15.4L~~	
~~Final Drives (Each)~~	~~80W-90~~	~~3.6L~~	
~~Tilt Cylinder Pin Oil (Top)~~	~~80W-90~~	~~0.5L~~	
~~Boom Pin Oil (Middle)~~	~~80W-90~~	~~3.6L~~	
~~Boom Cylinder Pin Oil (Front)~~	~~80W-90~~	~~1.5L~~	

CHECK /CLEAN/CHANGE OUT IF REQUIRED	Comments	Initial
Engine Air Filter Service Indicator		RC
Primary Air Filter		RC
Secondary Air Filter		RC
Cabin Air filter Internal		RC
Cabin Air Filter External		RC
Transmission & torque converter breather		RC
Fuel tank cap & strainer		RC
Hydraulic Tank Breaker Relief Valve		RC

CHECK	Comments	Initial
Battery Electrolyte level and condition		SS
Loader Boom Pin & Lift cylinder for leaks		RC
Hydraulic oil level		RC
Transmission oil level		RC
Front Differential & Final Drive oil levels		RC
Rear Differential & final drive oil levels		RC
Cooling system coolant level		RC
Boom Cylinder Pin oil level		N/A

CLEAN	Comments	Initial
Batteries & Terminals		RC

Engine air pre-cleaner		RC
Engine breathers & hose		RC
Drain water & sediment from fuel tank		SS
Remove Cooler mounting plate & wash out Diff oil cooler		N/A

LEGEND:

1. **Machine is not safe. Defect must be repaired**
2. **Defect found. Authorisation required before returning to work**
3. **Defect found and repaired**
4. **OK**

TYRE PRESSURE CHECK			Tyre Condition	Initial Appropriate Column			
	Actual	Adjusted		1	2	3	4
Pos 1	60					✓	
Pos 2	60					✓	
Pos 3	60					✓	
Pos 4	60					✓	

BUCKET & GET CONDITION	Initial Appropriate Column			
	1	2	3	4
Bucket Condition				
Tips (rotate least worn to most worn positions if change out not required)			✓	
Segments			✓	
Bolt on Edges			✓	
Side Protectors			✓	

Comments:

LEGEND:

1. **Machine is not safe. Defect must be repaired**
2. **Defect found. Authorisation required before returning to work**
3. **Defect found and repaired**
4. **OK**

MECHANICAL CHECKS	Initial Appropriate Column			
	1	2	3	4
ROPS/FOPS /Chassis attachment points for damage, cracks, corrosion or loose bolts			✓	
Frame & attachments for cracks			✓	
All pins & bushes for wear			✓	
Loader boom pins & lift cylinder pins for signs of leakage			✓	
Bottom hitch pin retaining bolts for tightness – visual check			✓	
Drive shaft in articulation area for spline wear			✓	
Articulation bearing for movement			✓	
Universal joints for wear			✓	
Rear diff trunnion bearing for wear			✓	
All hoses for general condition & chaffing			✓	
Steering (cylinders, valves & joints)			✓	
Inspect hydraulic accumulators for corrosion, damage, cracks or leaks. Check mounts For security. Vessel should be in good condition with no obvious damage			✓	
Radiator for debris (wash if necessary)			✓	
Cooling system hoses for condition & clamps for tightness			✓	
Engine water pump & tell tale			✓	
Condition & tension of V belts			✓	
Engine & transmission mounts			✓	
Fuel system for loose bolts & fittings			✓	
Crank shaft vibration damper			✓	
Exhaust system for leaks, clamps and bolts for tightness			✓	
Induction system for leaks and clamps for tightness			✓	
Operation and condition of kick outs			✓	
Air conditioner condition and operation			✓	
Hydraulic control operation			✓	
Transmission neutral lock operation			✓	
Engine shutdown system			✓	
Steering cycle time – (high idle) **Spec** : 3.5 sec **ACTUAL**			NIL	
Steering cycle time – (low idle) **Spec** : 5.5 sec **ACTUAL**			NIL	

LEGEND:

1. **Machine is not safe. Defect must be repaired**
2. **Defect found. Authorisation required before returning to work**
3. **Defect found and repaired**
4. **OK**

SAFETY CHECKS	Initial Appropriate Column			
	1	2	3	4
Brake accumulator – Must hold a minimum of 5 service brake applications before brake oil pressure comes on (Engine off, key on)			✓	
Pressure comes on (engine off, key on)			✓	
Steering operation			✓	
Horns – air/electric			✓	
Wipers & washer reservoir			✓	
Mirrors			✓	
Seat – suspension adjustment/condition			✓	
Seat belt – Retainers, operation & free from any signs of deterioration			✓	
Windows			✓	
Gauges			✓	
Operation of shift tower			✓	
Grab rails			✓	
Fire extinguishers – invert and shake to loosen powder			✓	
Fire suppression bottle charge			N/A	
Lights			✓	
Reverse alarm			✓	
Cab condition			✓	
Audible alarm & warning lights			✓	
Operation of emergency stop			✓	
Steps			✓	
Pins & retainers			✓	
Accumulation of fuel, oil, grease etc that may cause a fire hazard			✓	
Two way radio operation			✓	
Wheel Nuts			✓	
Accident Damage			✓	

Comments:

Brake Test

Park Brake Test

Testing Procedure 1. Fasten the seat belt before testing the parking brakes. 2. Start the engine and raise the bucket slightly. 3. Engage the parking brakes. 4. Apply the service brakes. 5. Move the direction switch to the neutral position. 6. Reduce the engine speed to low idle. 7. Place the transmission into THIRD speed. **Note:** When the transmission is shifted to the THIRD SPEED FORWARD position and the parking brake is engaged in Warning Category 3 will occur. 8. Place the direction witch to the forward position.	9. Return the direction switch to the neutral position. 10. Place the direction switch back to the forward position. 11. Release the Service brakes. **Note:** The parking brake will remain engaged. 12. Gradually increase the engine speed to high idle. The machine should not move. **Note:** Do not run the engine at high idle for more than five seconds. 13. Reduce the engine speed to low idle. 14. Apply the service brakes. 15. Return the direction switch to the neutral position. 16. Lower the bucket to the ground. 17. Stop the engine.	Pass Fail

Service Brake Test

1. Start the engine and raise the bucket slightly. 2. Apply the service brakes. 3. Engage the parking brake. 4. Move the direction switch to the neutral position. 5. Reduce the engine speed to low idle. 6. Place the transmission into THIRD speed. 7. Place the direction switch to the forward position. 8. Return the direction switch to the neutral position. 9. Place the direction switch to the forward position. 10. Release the parking brake.	**Note:** Service brakes will remain applied. 12. Gradually increase the engine speed to high idle. The machine should not move. **Note:** Do not run the engine at high idle for more than five seconds. 13. Reduce the engine speed to low idle. 14. Apply the service brakes. 15. Return the direction switch to the neutral position. 16. Lower the bucket to the ground. 17. Stop the engine	Pass Fail

Accident Prevention Read and understand safety warning in the operation and maintenance manual Have you completed a take 2? Have your job circumstances change since completing your take 2?					
824G / 930G / 938H IT Wheel Loader250 Hour Service Sheet					
Date:	5-3-18	**Name:**	Mat Rooney		
Plant ID:	WL 62	**Service Type:**	250 Hour	**Machine Hours:**	3259.8
☑	Machine has been cleaned prior to commencement of service				
☑	Machine has been positioned on flat level ground				
☑	All implements have been lowered				
☑	Machine has been isolated and locked out				

250HR LUBE SERVICE		INITIAL
SAMPLE:	Engine	n/a
	Transmission	n/a
CHANGE:		
	Engine oil	n/a
	Engine oil filters	n/a
	Primary fuel filter	n/a
	Primary air filter	n/a
	Cab air conditioner / heater filters	n/a
CLEAN:		
	Batteries and terminals	n/a
	Engine air pre cleaner	n/a
	Engine breather	n/a
	Primary fuel screen	n/a
	Transmission screens	n/a
	Transmission and diff housing breather	n/a
	Fuel tank cap and strainer	n/a
CHECK:		
	Daily service	n/a
	Transmission oil level	n/a
	Hydraulic oil level	n/a
	Differential and final drive oil levels	n/a
	Coolant level	n/a
	Brake accumulator	n/a
	Engine air filter secondary element	n/a
	Drain water from air tank	n/a
	Drain fuel system water separator	n/a
	Drain sediment from fuel tank	n/a
	Battery cable	n/a
	Battery electrolyte level	n/a
	Circuit breakers and fuses	n/a
	Bucket wear plates	—
	Bucket cutting edges	—
	Bucket tips	—

GREASE:		
	Fan hub bearing (HAND GUN ONLY) (NO MINE GREASE)	NA
	Articulation bearings	NA
	Drive shaft spline	NA
	Drive shaft support bearing	NA
	Bucket lower pivot bearings	NA
	Bucket linkage bearings	NA
	Steer cylinder bearings	NA
	Axle oscillation bearings	NA
	Fill auto grease system	NA

250HR MECHANICAL SERVICE

KEY:

1. Defect found and repaired

2. Defect found and recorded, machine still OK

3. OK

4. Not applicable

CHECK:	1	2	3	4
Condition and tension of V belts			NA	
Universal joints for wear			NA	
Articulation hitch bearing for movement				
Articulation cylinder pin wear			NA	
All pins & bushes for wear			NA	
Loader boom pins & lift cylinder pins for signs of leakage			NA	
Bottom hitch pin retaining bolts for tightness – visual check			NA	
Frame and attachments for cracks			NA	
Bucket condition				NA
Tips				NA
Bolts on edges				NA
Side protectors			NA	
Air conditioner – condition and operation			NA	
Operation of hydraulic controls			NA	
Fuel system for loose bolts and fittings			NA	
All hoses for general condition and chaffing			NA	
Cooling system hoses for condition and clamps for tightness			NA	
Induction system for leaks and clamps for tightness			NA	

Engine and transmission mounts			n/a	
Crankshaft vibration damper			n/a	
Exhaust system for leaks, clamps and bolts for tightness			n/a	
Radiator for debris (wash if necessary)			n/a	
That all points are receiving grease			n/a	
Transmission neutral lock operation			n/a	
Operation of park brake interlock			n/a	

***LEGEND:**

OK – OK **P** – Paste **HP** – Heavy Paste **LF** – Light Flakes **HF** – Heavy Flakes (return to foreman)

CHECK TYRE PRESSURES:

	POS 1	POS 2	POS 3	POS 4	POS 5	POS 6
Actual:						
Adjusted:	60	60	60	60		

SAFETY CHECK TO BE CARRIED OUT EVERY SERVICE

NOTE: Boxes A - F are to be initialled by person carrying out safety checks.

Every person carrying out these checks **must** also sign off Safety Check Sheet before the end of each shift.

KEY:

A. **Machine is not safe**, defect must be repaired
B. Defect found, authorisation required before returning to work
C. Defect found and recorded, machine safe to operate
D. Defect found and repaired
E. OK
F. Not applicable

CHECK:	A	B	C	D	E	F
Service Brake Operation 1. This test must be carried out on a hard dry level surface, clear of personnel and obstacles. Seat belt must be worn. 2. Start the engine and slightly raise the blade. Depress the decelerator control pedal and the service brake control pedal simultaneously. 3. Move gear to THIRD SPEED FORWARD position. Increase the engine speed to high idle. 4. Gradually release the decelerator control pedal. The machine should not move and the engine should stall. 5. Engage park brake and lower the blade to the ground.					n/a	
Emergency/ Park Brake 1. This test must be carried out on a hard dry surface, clear of personnel and obstacles. Seat belt must be worn. 2. Position the machine upward on a 20 percent slope. 3. Engage the parking brake and release the service brake. The wheels should not rotate. If the wheels rotate, apply the service brake.					n/a	

CHECK:	A	B	C	D	E	F
Steering operation					✓	
Steering column play					✓	
Emergency steering operation					NA	
Seat belt – retainers and operation					✓	
Horns – air/electric					✓	
Wipers					✓	
Mirrors					✓	
Seats – suspension adjustment/condition					✓	
Doors					✓	
Windows					✓	
Gauges					✓	
Operation of shift tower					✓	
Grab rails					✓	
Fire extinguishers – invert and shake to loosen powder					✓	
Fire suppression bottle charge					✓	
Tyre condition					✓	
Lights					✓	
Reverse alarm					✓	
Wheel nuts					✓	
Cab condition					✓	
Audible alarm and warning lights					✓	
Engine shut down system					✓	
Operation of emergency stop					✓	
Steps					✓	
Pin and retainers					✓	
Accumulation of fuel, oil, grease etc. that may cause a fire hazard					✓	
Two way radio operation					✓	
Fuel leaks					✓	

NOTES/DEFECTS/COMMENTS	STATUS	INITIAL
***STATUS LENGEND:**		
C- Completed O- Outstanding PO- Parts		
Front Diff Pinion Seal Leaking		
Left Steer Cylinder Leaking at O ring	C	MA
Oil Leak where Turning Tool Goes		

Service completed by:	Mark Greenwood		
Signed:	M.	**Date:**	9-3-18
Manager notified of repairs?			
Maintenance Supervisor Name:			

Accident Prevention Read and understand safety warning in the operation and maintenance manual Have you completed a take 2? Have your job circumstances change since completing your take 2?					
824G / 930G / 938H IT Wheel Loader 500 Hour Service Sheet					
Date:	3/7/19	**Name:**	S. Hartnell		
Plant ID:	WL62	**Service Type:**	500 Hour	**Machine Hours:**	3476
☒	Machine has been cleaned prior to commencement of service				
☒	Machine has been positioned on flat level ground				
☒	All implements have been lowered				
☒	Machine has been isolated and locked out				

500 HR LUBE SERVICE		INITIAL
SAMPLE:	Engine	S.H
	Differential and final drives	S.H
	Hydraulic	S.H
	Transmission	S.H
CHANGE:		
	Engine oil	S.H
	Engine oil filters	S.H
	Primary fuel filter	S.H
	Secondary fuel filter	S.H
	Transmission oil	S.H
	Transmission filter	S.H
	Primary air filter	S.H
	Cab air conditioner / heater filters	S.H
CLEAN:		
	Batteries and terminals	S.H
	Engine air pre cleaner	S.H
	Engine breather	S.H
	Primary fuel screen	S.H
	Transmission screens	S.H
	Transmission and diff housing breather	S.H
	Fuel tank cap and strainer	S.H
CHECK:		
	Daily service	S.H
	Transmission oil level	S.H
	Hydraulic oil level	S.H
	Differential and final drive oil levels	S.H
	Coolant level	S.H
	~~Brake~~ accumulator	S.H
	Engine air filter secondary element	S.H
	Drain water from air tank	N/A
	Drain fuel system water separator	S.H
	Drain sediment from fuel tank	S.H
	Battery cable	S.H
	Battery electrolyte level	S.H

CHECK:		
	Circuit breakers and fuses	S.H
	Bucket wear plates	S.H
	Bucket cutting edges	S.H
	Bucket tips	S.H
GREASE:		
	Fan hub bearing (HAND GUN ONLY) (NO MINE GREASE) N/A	
	Articulation bearings	S.H
	Drive shaft spline	S.H
	Drive shaft support bearing	S.H
	Bucket lower pivot bearings	S.H
	Bucket linkage bearings	S.H
	Steer cylinder bearings	S.H
	Axle oscillation bearings	S.H
	Fill auto grease system N/A	

500HR MECHANICAL SERVICE

KEY:

1. Defect found and repaired

2. Defect found and recorded, machine still OK

3. OK

4. Not applicable

CHECK:	1	2	3	4
Condition and tension of V belts			S.H	
Universal joints for wear			S.H	
Articulation hitch bearing for movement			S.H	
Articulation cylinder pin wear			S.H	
All pins & bushes for wear			S.H	
Loader boom pins & lift cylinder pins for signs of leakage			S.H	
Bottom hitch pin retaining bolts for tightness – visual check			S.H	
Frame and attachments for cracks			S.H	
Bucket condition			S.H	
Tips			S.H	
Bolts on edges			S.H	
Side protectors			S.H	
Air conditioner – condition and operation			S.H	

Operation of hydraulic controls			S.H	
Fuel system for loose bolts and fittings			S.H	
All hoses for general condition and chaffing			S.H	
Cooling system hoses for condition and clamps for tightness			S.H	
Induction system for leaks and clamps for tightness			S.H	
Engine and transmission mounts			S.H	
Crankshaft vibration damper			S.H	
Exhaust system for leaks, clamps and bolts for tightness			S.H	
Radiator for debris (wash if necessary)			S.H	
That all points are receiving grease			S.H	
Transmission neutral lock operation			S.H	
Operation of park brake interlock			S.H	

***LEGEND:**

OK – OK **P** – Paste **HP** – Heavy Paste **LF** – Light Flakes **HF** – Heavy Flakes (return to foreman)

CHECK TYRE PRESSURES:

	POS 1	POS 2	POS 3	POS 4	POS 5	POS 6
Actual:	60	45	65	65		
Adjusted:	60	60	60	60		

SAFETY CHECK TO BE CARRIED OUT EVERY SERVICE

NOTE: Boxes A - F are to be initialled by person carrying out safety checks.

Every person carrying out these checks **must** also sign off Safety Check Sheet before the end of each shift.

KEY:

A. **Machine is not safe**, defect must be repaired
B. Defect found, authorisation required before returning to work
C. Defect found and recorded, machine safe to operate
D. Defect found and repaired
E. OK
F. Not applicable

CHECK:	A	B	C	D	E	F
Service Brake Operation 1. This test must be carried out on a hard dry level surface, clear of personnel and obstacles. Seat belt must be worn. 2. Start the engine and slightly raise the blade. Depress the decelerator control pedal and the service brake control pedal simultaneously. 3. Move gear to THIRD SPEED FORWARD position. Increase the engine speed to high idle. 4. Gradually release the decelerator control pedal. The machine should not move and the engine should					S.H S.H S.H S.H	

NOTES/ DEFECTS/ COMMENTS	STATUS	INITIAL
*STATUS LENGEND: C- Completed O- Outstanding PO- Parts WL 62		
F N R LEVER ON STEERING COLUM NEEDS REPLACING	PO	S.H
OIL LEAK ON RHS OF ENGINE	C	S.H
ACCUMULATOR PRESSURE WAS 0 PSI SET AT 450 PSI	MONITOR	

Service completed by:	S. HATHERELL		
Signed:	S.	**Date:**	4/7/19
Manager notified of repairs?			
Maintenance Supervisor Name:	Dane Leadbeater		

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Accident Prevention
Read and understand safety warning in the operation and maintenance manual
Have you completed a take 2?
Have your job circumstances change since completing your take 2?

824G / 930G / 938H IT Wheel Loader 2000 Hour Service Sheet

Date:	16/8/23	**Name:**	Andrew Elkner		
Plant ID:	WL62	**Service Type:**	2000 Hour	**Machine Hours:**	3989

☑	Machine has been cleaned prior to commencement of service
☑	Machine has been positioned on flat level ground
☑	All implements have been lowered
☑	Machine has been isolated and locked out

2000 HR LUBE SERVICE		INITIAL
SAMPLE:	Engine	AE
	Differential ~~and final drives~~	AE
	Hydraulic	AE
	Transmission	AE
	Coolant	AE
CHANGE:		
	Engine oil	AE
	Engine oil filters	"
	Primary fuel filter	"
	Secondary fuel filter	"
	Transmission oil	"
	Transmission oil filter	"
	Hydraulic oil	"
	Hydraulic oil filter	"
	Hydraulic tank breather	"
	Differential and final drive oils	"
	Axle oil cooler screen	NA
	Primary air filter	AE
	Secondary air filter	AE
	Cab air conditioner / heater filters	AE
CLEAN:		
	Batteries and terminals	AE
	Engine air pre cleaner	AE
	Engine breather	AE
	Primary fuel screen	AE
	Transmission screens	AE
	Transmission and diff housing breather	AE
	Fuel tank cap and strainer Replaced.	AE
		AE

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CHECK:		
	Daily service	AE
	Coolant level	AE
	Engine valve lash	AE
	Brake accumulator	AE
	Brake discs	N/A
	Drain water from air tank	N/A
	Drain fuel system water separator	AE
	Drain sediment from fuel tank	N/A
	Battery cable	AE
	Battery electrolyte level	N/A
	Circuit breakers and fuses	AE
	ROP's	AE
	Bucket wear plates	N/A
	Bucket cutting edges	N/A
	Bucket tips	N/A
GREASE:		
	Fan hub bearing (HAND GUN ONLY) (NO MINE GREASE)	N/A
	Articulation bearings	AE
	Drive shaft spline	AE
	Drive shaft support bearing	AE
	Bucket lower pivot bearings	AE
	Bucket linkage bearings	AE
	Steer cylinder bearings	AE
	Axle oscillation bearings	AE
	Fill auto grease system	N/A

2000HR MECHANICAL SERVICE

KEY:

1. Defect found and repaired

2. Defect found and recorded, machine still OK

3. OK

4. Not applicable

CHECK:	1	2	3	4
Condition and tension of V belts			✓	
Universal joints for wear			✓	
Articulation hitch bearing for movement			✓	
Articulation cylinder pin wear			✓	
All pins & bushes for wear			✓	
Loader boom pins & lift cylinder pins for signs of leakage			✓	
Bottom hitch pin retaining bolts for tightness – visual check			✓	
Frame and attachments for cracks			✓	
Bucket condition				✓
Tips				✓
Bolts on edges				✓
Side protectors				✓
Air conditioner – condition and operation			✓	
Operation of hydraulic controls			✓	
Fuel system for loose bolts and fittings			✓	
Fuel line supply clamps			✓	
Hydraulic system for damaged lines and loose fittings			✓	
All hoses for general condition and chaffing			✓	
Cooling system hoses for condition and clamps for tightness			✓	
Induction system for leaks and clamps for tightness			✓	
Engine and transmission mounts			✓	
Crankshaft vibration damper			✓	
Exhaust system for leaks, clamps and bolts for tightness			✓	
Radiator for debris (wash if necessary)			✓	
That all points are receiving grease			✓	
Transmission neutral lock operation			✓	
Operation of park brake interlock			✓	

***LEGEND:**

OK – OK **P** – Paste **HP** – Heavy Paste **LF** – Light Flakes **HF** – Heavy Flakes (return to foreman)

CHECK TYRE PRESSURES:

	POS 1	POS 2	POS 3	POS 4	POS 5	POS 6
Actual:	50	50	50	50	—	—
Adjusted:	—	—	—	—		

SAFETY CHECK TO BE CARRIED OUT EVERY SERVICE

NOTE: Boxes A - F are to be initialled by person carrying out safety checks.

Every person carrying out these checks **must** also sign off Safety Check Sheet before the end of each shift.

KEY:

A. **Machine is not safe**, defect must be repaired
B. Defect found, authorisation required before returning to work
C. Defect found and recorded, machine safe to operate
D. Defect found and repaired
E. OK
F. Not applicable

CHECK:	A	B	C	D	E	F
Service Brake Operation 1. This test must be carried out on a hard dry level surface, clear of personnel and obstacles. Seat belt must be worn. 2. Start the engine and slightly raise the blade. Depress the decelerator control pedal and the service brake control pedal simultaneously. 3. Move gear to THIRD SPEED FORWARD position. Increase the engine speed to high idle. 4. Gradually release the decelerator control pedal. The machine should not move and the engine should stall. 5. Engage park brake and lower the blade to the ground.					✓	
Emergency/ Park Brake 1. This test must be carried out on a hard dry surface, clear of personnel and obstacles. Seat belt must be worn. 2. Position the machine upward on a 20 percent slope. 3. Engage the parking brake and release the service brake. The wheels should not rotate. If the wheels rotate, apply the service brake.					✓	
Steering operation					✓	
Steering column play					✓	
Emergency steering operation					✓	
Seat belt – retainers and operation					✓	
Horns – air/electric					✓	
Wipers			✓		✓	

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Mirrors					✓	
Seats – suspension adjustment/condition					✓	
Doors					✓	
Windows					✓	
Gauges					✓	
Operation of shift tower					✓	
Grab rails					✓	
Fire extinguishers – invert and shake to loosen powder					✓	
Fire suppression bottle charge						✓
Tyre condition					✓	
Lights					✓	
Reverse alarm					✓	
Wheel nuts					✓	
Cab condition					✓	
Audible alarm and warning lights					✓	
Engine shut down system					✓	
Operation of emergency stop					✓	
Steps					✓	
Pin and retainers					✓	
Accumulation of fuel, oil, grease etc. that may cause a fire hazard					✓	
Two way radio operation					✓	
Fuel leaks					✓	

NOTES/ DEFECTS/ COMMENTS	STATUS	INITIAL
***STATUS LENGEND:** **C- Completed O- Outstanding PO- Parts**		
Cracked & broken bolt in spacer plate from someone over torqueing all bolt on rocker cover & spacer plate. New spacer plate needed & broken bolt removed out of head.	O	AE
Injector pipe seals leaking	O	AE

Service completed by:	Andrew Bikker
Signed:	**Date:** 17/8/23
Manager notified of repairs?	
Maintenance Supervisor Name:	Dion Roberts

Accident Prevention
Read and understand safety warning in the operation and maintenance manual
Have you completed a take 2?
Have your job circumstances change since completing your take 2?

824G / 930G / 938H IT Wheel Loader 250 Hour Service Sheet

Date:	17.6.21	**Name:**	G. Ellis, S. Simpson		
Plant ID:	WL62	**Service Type:**	250 Hour	**Machine Hours:**	3770

☑	Machine has been cleaned prior to commencement of service
☑	Machine has been positioned on flat level ground
☑	All implements have been lowered
☑	Machine has been isolated and locked out

250 HR LUBE SERVICE		INITIAL
SAMPLE:	Engine	GE
	Transmission	GE
CHANGE:		
	Engine oil	GE
	Engine oil filters	GE
	Primary fuel filter	GE
	Primary air filter - ~~Parts ordered~~	GE
	Cab air conditioner / heater filters - ~~Parts Ordered~~	GE
CLEAN:		
	Batteries and terminals	GE
	Engine air pre cleaner - Inspect	GE
	Engine breather	GE
	Primary fuel screen	N/A
	Transmission screens	GE
	Transmission and diff housing breather	GE
	Fuel tank cap and strainer	GE
CHECK:		
	Daily service	RGY
	Transmission oil level	GE
	Hydraulic oil level	GE
	Differential and final drive oil levels	GE
	Coolant level	GE
	Brake accumulator	GE
	Engine air filter secondary element	GE
	Drain water from air tank	N/A
	Drain fuel system water separator	GE
	Drain sediment from fuel tank	GE
	Battery cable	GE
	Battery electrolyte level	N/A
	Circuit breakers and fuses	SS
	Bucket wear plates	GE
	Bucket cutting edges	GE
	Bucket tips	GE

GREASE:		
	Fan hub bearing (HAND GUN ONLY) (NO MINE GREASE)	N/A
	Articulation bearings	GE
	Drive shaft spline	GE
	Drive shaft support bearing	GE
	Bucket lower pivot bearings	GE
	Bucket linkage bearings	GE
	Steer cylinder bearings	GE
	Axle oscillation bearings	GE
	Fill auto grease system	N/A

250HR MECHANICAL SERVICE

KEY:

1. Defect found and repaired

2. Defect found and recorded, machine still OK

3. OK

4. Not applicable

CHECK:	1	2	3	4
Condition and tension of V belts			GE	
Universal joints for wear			GE	
Articulation hitch bearing for movement			SS	
Articulation cylinder pin wear			SS	
All pins & bushes for wear			SS	
Loader boom pins & lift cylinder pins for signs of leakage			SS	
Bottom hitch pin retaining bolts for tightness – visual check			SS	
Frame and attachments for cracks			SS	
Bucket condition			GE	
Tips			GE	
Bolts on edges			GE	
Side protectors			GE	
Air conditioner – condition and operation			GE	
Operation of hydraulic controls			GE	
Fuel system for loose bolts and fittings			GE	
Fuel supply line clamp			GE	
Hydraulic system for damaged lines and loose fittings	GE/SS		GE	
All hoses for general condition and chaffing	GE/SS			

Cooling system hoses for condition and clamps for tightness			GE	
Induction system for leaks and clamps for tightness			GE	
Engine and transmission mounts			GE	
Crankshaft vibration damper			GE	
Exhaust system for leaks, clamps and bolts for tightness			GE	
Radiator for debris (wash if necessary)			SS	
That all points are receiving grease			GE	
Transmission neutral lock operation			GE	
Operation of park brake interlock			GE	

***LEGEND:**

OK – OK **P** – Paste **HP** – Heavy Paste **LF** – Light Flakes **HF** – Heavy Flakes (return to foreman)

CHECK TYRE PRESSURES:

	POS 1	POS 2	POS 3	POS 4	POS 5	POS 6
Actual:						
Adjusted:	60	60	60	60		

GE

SAFETY CHECK TO BE CARRIED OUT EVERY SERVICE

NOTE: Boxes A - F are to be initialled by person carrying out safety checks.

Every person carrying out these checks **must** also sign off Safety Check Sheet before the end of each shift.

KEY:

A. **Machine is not safe**, defect must be repaired
B. Defect found, authorisation required before returning to work
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D. Defect found and repaired
E. OK
F. Not applicable

CHECK:	A	B	C	D	E	F
Service Brake Operation 1. This test must be carried out on a hard dry level surface, clear of personnel and obstacles. Seat belt must be worn. 2. Start the engine and slightly raise the blade. Depress the decelerator control pedal and the service brake control pedal simultaneously. 3. Move gear to THIRD SPEED FORWARD position. Increase the engine speed to high idle. 4. Gradually release the decelerator control pedal. The machine should not move and the engine should stall. 5. Engage park brake and lower the blade to the ground.					GE	
Emergency/ Park Brake 1. This test must be carried out on a hard dry surface, clear of personnel and obstacles. Seat belt must be worn.					GE	

2. Position the machine upward on a 20 percent slope.
3. Engage the parking brake and release the service brake. The wheels should not rotate. If the wheels rotate, apply the service brake.

CHECK:	A	B	C	D	E	F
Steering operation					GE	
Steering column play					GE	
Emergency steering operation					GE	
Seat belt – retainers and operation					GE	
Horns – air/electric					GE	
Wipers - see defects for washers					SS	
Mirrors					GE	
Seats – suspension adjustment/condition					GE	
Doors					GE	
Windows					GE	
Gauges					GE	
Operation of shift tower						GE
Grab rails					GE	
Fire extinguishers – invert and shake to loosen powder					GE	
Fire suppression bottle charge						GE
Tyre condition					GE	
Lights				GE		
Reverse alarm					GE	
Wheel nuts					GE	
Cab condition - cleaned.					SS	
Audible alarm and warning lights					GE	
Engine shut down system					GE	
Operation of emergency stop					GE	
Steps					GE	
Pin and retainers					GE	
Accumulation of fuel, oil, grease etc. that may cause a fire hazard					SS	
Two way radio operation					GE	
Fuel leaks					GE	

NOTES/ DEFECTS/ COMMENTS	STATUS	INITIAL
***STATUS LENGEND:** **C- Completed O- Outstanding PO- Parts**		
Lift cylinder hoses need Replacing.	PO	SS
Front windscreen washer motor U/S	C	SS
Implement locator tap broken	C	GE
Arm Rest Broken	C	SS
Cab needs to be cleaned	C	SS
Blinkers not working	C	GE

Service completed by:	G. Ellis, S. Simpson		
Signed:	[signature]	**Date:**	17.6.21.
Manager notified of repairs?	—		
Maintenance Supervisor Name:	[signature] Landtsoon [signature] 21/06/21		

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Prepared By:	Troy Slorach	**Date:**	28/08/2020	**Approved By:**	Troy Slorach	**Date:**	28/08/2020
Rev. No:	2	**Date Implemented:**	28/08/2020				