

Plant Hazard Assessment Form

Assessment Number:	#002
Assessment Date:	24/04/2015
Plant Type:	CAT
Asset / Fleet / Rego No:	PIN CAT3025CLGGB04363
Assessed by:	David Cameron
Reviewed by:	
Plant Owner Name:	Cameron Outdoor PL
	Initial Assessment
	Yes X
	No
	Follow up Assessment (e.g. plant modified)

Risk Matrix					
Consequences	Likelihood or Probability				
	A	B	C	D	E
People	Almost Certain expected	Likely will probably occur	Moderate might occur – has happened	Unlikely could occur – known to happen	Rare practically impossible
No Incident or First Aid Injury	H15	M19	L22	L24	L25
Medical Treatment	H10	H14	M18	L21	L23
Alternate Work or Lost Time Injury	E6	H9	H13	M17	M20
Serious or Permanent Injury	E3	E5	E8	H12	H16
Fatality	E1	E2	E4	E7	H11

Scope of work of Plant:	Lifting associated with Landscaping & excavations works – plants, pits, filter fabric, timber, rocks, pavers.
	Load shifting – excavated materials, bulk moving, imported materials associated with Landscaping – rock dust, sand, crushed rock, concrete, topsoil, manure, woodchips/mulch.

Identified hazards with a level of risk score of H or E must be addressed immediately.

Other risk levels are to be addressed in order of priority.

	Yes	No
Is the plant designed to perform the task as outlined in the scope?	Yes	
Has the plant been modified from the original condition?		No
Is the plant in good working condition?	Yes	
All identified action items closed out/addressed?	N/A	
Is the plant safe to operate?	Yes	
	Date: 24/4/2015	Signature:

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Potential Hazards	Hazard (Y, N, N/A)	Describe	Risk Level	Control Measure(s) Required	Person responsible
1. Can anyone be ENTANGLED in the plant? e.g. Hair caught in moving parts, PPE caught in moving parts	Yes	Fan belts on motor	L21	Fan guards installed	Operator
				Motor enclosed	Fitter /Mechanic
				Install decals/signage	
2. Can anyone be CRUSHED? e.g. Material falling off the plant, plant falling over, being trapped	Yes	Mechanical failure - Bucket dropping when elevated	H16	Daily prestarts to check plant condition. Isolate work area to prevent unauthorised workers accessing it.	Operator
		Working on sloping ground	E8	All work on sloping ground must be within manufacturer's recommendations, this applies to load shifting/tramming, excavation, carrying plants or any similar items associated with the task. Do not allow workers below the Bobcat when working on slopes	Operator
3. Can anyone be CUT, STABBED or PUNCTURED? e.g. Flying objects, moving parts, pinch points	Yes	Hydraulic injection – leaking hoses	H11	Check condition of hoses during prestarts Do check pressurised hoses with hands/fingers	Operator Fitter /Mechanic
		Working on hydraulic system	H11	De-energise hydraulic system prior to working on it.	Operator Fitter /Mechanic
4. Can SHEARING occur? e.g. Between two moving parts	Yes	Between Four in one (4in 1) bucket components	H16	Operator to confirm no workers are present when opening/ closing the bucket	Operator

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5. Can FRICTION occur? e.g. Continuous contact with moving parts	Yes	Track activity	L23	Check condition of tracks, ensure they are clear & free & nothing is wrapped around them	Operator
6. Can anyone be STRUCK whilst operating the plant? e.g. Plant disintegrating, work pieces thrown out, moving parts	Yes	Bucket disengagement	H12	Include condition of bucket pins in daily pre-starts Ensure locking pins are fully engaged at all times when changing attachments	Operator Operator
7. Can a hazardous PRESSURE be produced? e.g. Hydraulic hoses, radiator, etc	Yes	Hydraulic hose/connection failure	L21	Include condition of hoses/connections in daily pre- starts, replace as required	Operator
		Steam/hot water burns when removing radiator cap	L24	Allow engine to cool before removing cap	Operator
				Turn head away from the radiator	Operator
				Wear protective gloves/glasses	Operator
8. Can an ELECTRICAL hazard be created? e.g. Lack of insulation, contact with electrical conductors, poor earthing	Yes	Wiring not secured and chaffing with continuous use	L23	Secure wiring, provide extra insulation	Operator
		Contact with & bridging across battery terminals	L22	Install plastic or similar non- conductive covers on terminals	Operator Fitter /Mechanic

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				Use plastic coated tools & use with handles pointing away from the other terminal	Operator Fitter /Mechanic	
				Remove rings, watches, bracelets or other similar jewellery.	Operator Fitter /Mechanic	
9. Can an EXPLOSION occur? e.g. Gas emission, dusts, vapours, fuel tank	Yes	Battery explosion	L23	Ensure battery checks are included in daily/weekly & scheduled maintenance inspections.	Operator	
10. Can anyone using or near the plant SLIP, TRIP or FALL? e.g. Uneven surface, fall from a height, weather conditions	Yes	When walking on or around excavated or imported back fill materials, pipes, pits	L21	Isolate stockpiles of excavated or imported back fill materials, pipes, pits	Operator Supervisor	
				Park on dry, level & stable ground away from stockpiles	Operator	
				Maintain three points of contact when entering/exiting bobcat	Operator	
11. Are there ERGONOMIC - MANUAL HANDLING hazards associated with the plant? e.g. Poor posture, repetitive movements, awkward positions, strained movements	Yes	Bad posture from incorrectly adjusted seat	L23	Ensure seat is correctly adjusted for each individual operator	Operators	
12. Are there ERGONOMIC -	No					

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OPERATING CONTROL hazards associated with the plant? e.g. Difficult to understand, inappropriate colouring, function not identified					
13. Can anyone be SUFFOCATED? e.g. Lack of oxygen, contaminated atmosphere	N/A				
14. Does operation of the plant cause extreme TEMPERATURE changes? e.g. Fire, burns through conduction, convection, cryogenic burns	No				
15. Can certain WEATHER conditions create a hazard? E.g. Hypothermia, heat stroke, wet conditions	Yes	Increased cabin temperatures in summer induced by weather & plant operation combined	L24	Use Aircon if fitted, open windows to create air current, Drink fluids to maintain hydration.	Operator Operator
16. Does VIBRATION of the plant create a hazard? e.g. Plant becomes unstable, causes physical problems for the operator	Yes	Minimal during general use, may increase dependant on ground conditions travelled over	L25	Clear access roads & maintain in good order. Take regular breaks & rotate operators if required to reduce the exposure.	Operator Supervisor

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17. Can the plant emit toxic FUMES or VAPOURS? <i>e.g. Exhaust fumes, chemicals</i>	Yes	Exhaust fumes emitted	L23	Maintain plant according to manufacturer's recommendations to reduce exhaust emissions to acceptable levels	Supervisor
			M18	Do not use inside buildings, basements or enclosed areas without provision for a ventilation system blow or extraction	Operator Supervisor
18. Carry out the NOISE survey on page 9. Is the plant noisy? <i>e.g. Emit >85 dBA at the operator, effects operator communication</i>	No				
19. Carry out the LIGHT survey on page 9. Is there poor visibility <i>e.g. At the controls, at the task, darkens surrounding areas</i>	No	Controls and cabin lighting is adequate			
20. Does the plant emit RADIATION? <i>E.g. X-rays, EMR, laser</i>	No				

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21. Can operation of the plant create DUST? e.g. Explosive atmosphere, breathing hazard, decrease visibility	Yes	Moving or loading out existing stockpiles	L22	Water used for dust suppression Keep cabin door closed & create positive pressure in cabin if possible. Wear dust mask	Supervisor Operator
		Tramming on dusty haul roads	L22	Water used for dust suppression Keep cabin door closed & create positive pressure in cabin if possible. Wear dust mask	Supervisor Operator
		Using buckets to grade roads	L22	Water used for dust suppression Keep cabin door closed & create positive pressure in cabin if possible. Wear dust mask	Supervisor Operator
		Using broom attachment	L22	Water used for dust suppression Keep cabin door closed & create positive pressure in cabin if possible. Wear dust mask	Supervisor Operator
22. Can the plant become UNSTABLE during operation? e.g. Working on uneven ground, shifting load	Yes	Bucket overload	L24	Do not overfill bucket	Operator
				Do not over extend bucket when full	Operator
				Plan work to ensure it is on level & stable ground when loading and elevating bucket.	Operator
23. Could LOSS of LOAD occur? e.g. Failure of ropes/slings, overloading, entanglement in surrounding structures	Yes	Bucket overflow	L24	Shake & remove or allow surplus material to fall from bucket prior to movement from loading point. Isolate work area around loading.	Operator
		Bucket drop	H13	Ensure quick hitch pins or similar locking devices are in place if fitted	Operator
				Ensure all bucket pins are fully engaged and locked in	Operator

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24. Is there anything in the SURROUNDING ENVIRONMENT that may produce a hazard? <i>e.g. Power lines, low ceiling, other plant, storage areas</i>	Yes	Every operational work area will have hazards; buried services, backfilled/soft ground conditions, overhead services, building/materials proximity, other mobile plant Lack of assistance	M18 L25	DBYD – Obtain permit to excavate; pre-start site inspection – check overheads, ground conditions, accessibility, develop Vehicle movement plan, hold/attend prestart meetings Never work alone, develop emergency procedure plan	Supervisor Operator Supervisor Operator
25. Can CHEMICALS create a hazard? <i>e.g. Leaking from plant, splashing, explosion</i>	Yes	Hydraulic injection from damaged hoses/connections	M18	Check hoses/connections for condition or leaks, do not use fingers or hands, use paper/cardboard. If in doubt seek professional help Seek medical help urgently if injected De-energise hydraulic system prior to all maintenance/repairs Replace damaged hoses with ones rated for correct pressures specified by manufacturer. Lock & tag out prior to maintenance/repairs on hydraulic system.	Operator Fitter /Mechanic Operator Fitter /Mechanic Operator Fitter /Mechanic
26. Are there ANY OTHER potential hazards					

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generated by or during the use of this item of plant and/or any attachments?						

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Noise Report (Strike out if not applicable)									
Equipment Type:				Serial/Asset No.					
Make:		Model:				Date:			
Test by (print):				Signature:					
Sound Level Meter Unit Used:		Manufactures specified noise level:		dBA		Background level:		dBA	
Results – Operator’s Station									
High Revs:		dBA		Low Idle:		dBA (Equipment Operating)			
Results – Bystander Position:									
Front:		dBA		Left:		dBA At 7 metres from side of equipment – Equipment Operating (High Idle)			
Rear:		dBA		Right:		dBA			