

Static, Hazard & Risk Assessment of Mobile Plant

Company Name	ELITE ROADS	
Make / Model	BOBCAT S130	Meter Reading: 511
	Skidsteer Loader	
Plant Registration or ID No.		Serial No. A3KY37907
Assessed by	GREG CORNELL	Date: 11/10/12
Assessed at	03 9763 5449 KEILOR EAST	

GENERAL PLANT GTA RISK ASSESSMENT NO: 3525
<ul style="list-style-type: none"> This document has been developed as a guide to identify hazards on Mobile Plant only. Stationary Plant is addressed on another document. Workplace hazards have not been identified. A Job Safety Analysis (JSA) is required to identify workplace hazards. Operators must take into account Job Safety Analysis when operating mobile plant. This Assessment is conducted under a static condition as per the OH&S Safety Regulations Victoria 2007 – Division 5. National Standards For Plant (NOHSC:1010 (1994)) All issues highlighted relating to maintenance and repairs MUST BE CARRIED OUT WITHIN 14 DAYS from date shown on assessment.

REPORT ACCEPTANCE: This Risk Assessment has been conducted to the guidelines as detailed in the WorkSafe booklet 'Plant Hazard Checklist'
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Machine Type:	Skidsteer Loader -
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GENERAL NOTES

The Owner/Operator of the above Mobile Plant should conduct an inspection at least once a year. All procedures and control methods are maintained to requirements of the OH&S Safety Regulations Victoria 2007, Division 5. National Standards For Plant (NOHSC:1010 (1994))

In particular, when any alteration or change is made to the Mobile Plant, a review of both Control Methods and Documentation should be made.

A Mobile Plant Risk Assessment should be conducted at change of location. Refer to Plant Regs.


DISCLAIMER

This Mobile Plant Hazard & Risk Assessment Report (referred to hereafter as 'Assessment') contains information that is privileged and confidential and produced only for use by the Entity of person named on the front cover sheet of this Assessment.

This Mobile Plant Hazard & Risk Assessment does not eliminate the Owner/Operator responsibility to maintain the Mobile Plant as per OH&S Safety Regulations Victoria 2007, Division 5. Copying or distribution of this Assessment by any means to a third party is expressly prohibited unless consent has been authorised by Gascoigne Training & Assessment Pty Ltd.


This Assessment provides information that is based on an inspection that was made on the date noted on the Assessment cover sheet. If any addition, alteration or modification has been made to this Mobile item Plant subsequent to that date, it may not conform to a satisfactory level of acceptance - therefore the Mobile Plant Hazard & Risk Assessment is null and void.

I acknowledge receipt of the complete Assessment for the Mobile Plant item detailed above.

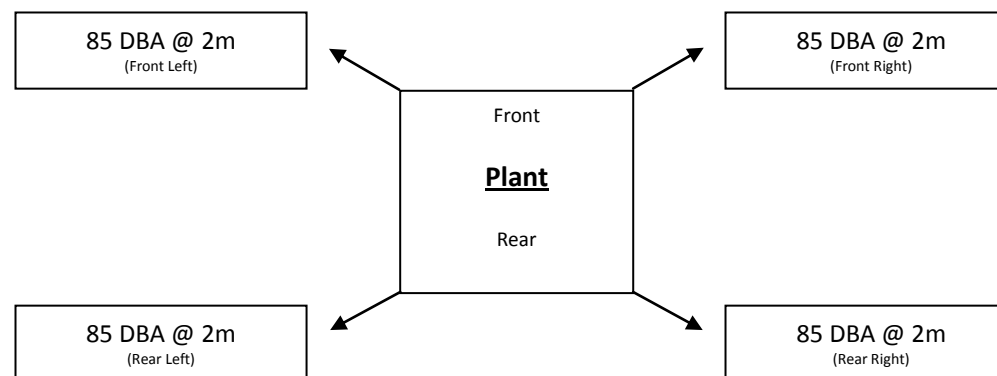
Supervisor/Operator (Please Print):		Signature:	
Name of Assessor:	Greg Cornell	Signature:	
Date:	11/10/12		

NOISE REPORT

This Noise Report is a Guide ONLY

Equipment Type:	Skidsteer Loader	Risk Number:	3525
Make/Model:	BOBCAT S130		
Tested By:	Greg Cornell	Signature:	 Date: 11/10/12
Sound Level Meter Used:	Digital Sound Lever Meter N19 Q1362		
Background Noise Level	49.3	DBA:	Below 50 DBA
Results – Operator Station Stationary			
Low Idle DBA:	DBA: 86	High Idle DBA:	DBA: 88
Operators Station (Operational) DBA:	DBA: 88		
Cabin Type:	OVERHEAD FRAME CAB (Fully enclosed, overhead frame only, frame & side windows, open, other)		

Additional Comments:
N/A



Please note: Diagram (on left) can only be completed if noise exceeds 85DBA at operator station and owner/operator is in attendance at time of risk assessment, this is a noise **GUIDE ONLY**. If the operator is not in attendance, then this diagram may become invalid and will not be completed.

Hearing Protection Zone Recommended around the equipment		Radius 3m
Note:	Hearing protection is required for bystanders if they enter the hearing protection zone measured as a radius from the equipment. Without hearing protection, bystanders may be exposed to noise at or above 85DBA within this zone.	

Potential Hazard	Identified		Control Methods in Place	Yes/ No	Additional Control Methods Required	Action Date	Date Completed
	YES	NO					
1. ENTANGLEMENT: Can anyone's hair clothing, gloves, necktie, jewellery, cleaning brushes, rags and other materials become entangled with moving parts of plant or materials in motion?							
a) Can anybody become entangled with moving parts of plant or materials in motion?	Y		Keep clear warning decals	Y			
	Y		Engine covers fitted	Y			
	Y		Rotating parts warning decals	Y			
	Y		Has operator been inducted?	Y			
2. CRUSHING: Can anyone be crushed due to:							
a) Material falling off plant	Y		Attachments (eg: Profiler)	N/A			
	Y		Moving bucket/hammer	Y			
b) Unexpected movement of the plant	Y		Neutral start switch	Y			
	Y		Crush zone warning decal	Y			
	Y		Reversing Light	Y			
	Y		Rear vision camera/mirror	Y			
	Y		Look Behind Before Reversing Decal	Y			
	Y		Pedals non slip surface	Y			
	Y		Controls have appropriate knobs	Y			
	Y		Amber flashing beacon	Y			
	Y		Reversing alarm	Y			
	c) lack of capacity for plant to be slowed, stopped or immobilised	Y		Service brake operational	N/A		
Y			Parking brake operational	Y			
Y			Hydrastatic drive forward/reverse leavers	Y			
d) The plant tipping or rolling over	Y		ROPS cabin	Y			
	Y		FOPS cabin	Y			
	Y		Tip over decal fitted	Y			
	Y		If cabin non ROPS, SWMS must be conducted for each job site	N/A	This has ROPS/FOPS		
e) Parts of plant collapsing	Y		Safety pins or props fitted	Y			
	Y		Use safety pins when working under raised attachments	Y			

			decal				
Potential Hazard	Identified		Control Methods in Place	Yes/ No	Additional Control Methods Required	Action Date	Date Completed
	YES	NO					
f) Coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair	Y		Do not stand under raised attachments decal	Y			
	Y		Battery isolation switch fitted	N/A	Not fitted to this model		
g) Being thrown off or under the plant	Y		Seatbelt fitted	Y			
	Y		Wear Seatbelt decal	Y			
	Y		ROPS fitted seat belt must be worn decal	Y			
	Y		No passengers decal	Y			
	Y		Operator cabin fully enclosed	N/A			
	Y		Operator cabin open (overhead guard)	Y			
h) Being trapped between the plant and fixed structures during maintenance	Y		Training – signs, decals, barricades	Y			
3. CUTTING: Can anyone be cut, stabbed or punctured due to:							
a) Coming into contact with sharp or flying objects	Y		Any visible signs of sharp edges	Y			
	Y		Guards, Warning Signs, Hard Hat, Safety Boots, Face and Eyes	Y			
b) Coming into contact with moving parts of the plant during testing or repair of the plant	Y		Machine to be maintained to a safe standard by company	Y			
c) The plant, parts for the plant or work pieces disintegrating	Y		Protection of personnel	Y			
d) The mobility of the plant	Y		Danger machine may reverse without warning decal	Y			
e) Uncontrolled or unexpected movement of the plant	Y		Crush zone warning decal	Y			
f) Other factors not							

mentioned							
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Potential Hazard	Identified		Control Methods in Place	Yes/ No	Additional Control Methods Required	Action Date	Date Completed
	YES	NO					
4. SHEARING: Can anybody's body parts be sheared between two parts of the plant or between a part of the plant and work structure?							
a) Body parts being sheared between plant or structures	Y		Do not start decal	Y	When servicing		
	Y		Attach safety bar before entering decal	N/A			
5. HIGH TEMPRETURES: Can anyone be burnt due to contact with moving parts or surfaces of the plant or materials handled by the plant?							
a) Coming into contact with hot parts	Y		High mounted exhaust	N/A			
	Y		Hot Part decal	Y			
	Y		Exhaust guarding	Y			
	Y		Fire extinguisher supplied	Y	As per jobsite requirements		
6. STRIKING: Can anyone be struck by moving objects due to:							
a) Uncontrolled or unexpected movement of the plant or the material handled by the plant	Y		Foot brake	N/A			
	Y		Park brake	Y			
	Y		Hydrastatic drive	Y			
	Y		Forward/reverse controls	Y			
b) Changing cutting edges and attachments	Y		Quick hitch independent latching device supplied	N/A	Has bob-tac attachment		
	Y		Safety pin fitted	N/A	No pin required		
	Y		Safe operation of quick hitch is operators responsibility decal in operators line of sight	N/A	No hydraulic quick hitch		
c) The plant, part of the plant or work pieces disintegrating	Y		Machine guarding	Y			
	Y		Keep clear decal	Y			
	Y		Pre-start inspection	Y	To be addressed by daily inspection booklet		
d) work pieces being ejected	Y		Machine guarding	Y			
	Y		Keep clear decal	Y			
e) Mobility of the plant	Y		Glass – safe operation conditions	N/A	If fitted		
	Y		Reversing alarm	Y			
	Y		Amber flashing beacon	Y			
	Y		Brake lights and turn signals	Y			
	Y		Warning horn	Y			
	Y		Controls instructions are identified and in English	Y			
f) Other factors not mentioned							

Potential Hazard	Identified		Control Methods in Place	Yes/ No	Additional Control Methods Required	Action Date	Date Completed
	YES	NO					
7. HIGH PRESSURE FLUID: Can anyone come into contact with fluids under high pressure?							
a) Leaking hydraulic hoses	Y		Track adjustment cylinder	N/A			
	Y		High pressure cylinder decal	N/A			
	Y		Hoses have been checked	Y	There are no leaking hoses		
	Y		Warning decals	Y			
	Y		Diesel Decal	Y			
	Y		Cooling system decal	Y			
	Y		Hydraulic oil decal	Y			
8. ELECTRICAL: Can anyone be injured by electrical shock or burnt due to:							
a) coming into contact with live overhead conductors	Y		Has a JSA been conducted?	Y			
	Y		Underground services – Dial Before You Dig	Y			
	Y		Certificate for No Go Zone	Y			
	Y		Look up and Live decal in operators sight	Y			
	Y		Electrical wire warning decal	Y			
b) Damaged Leads	Y		Battery cover fitted	Y			
	Y		Battery decal	Y			
c) Lack of isolation procedures	Y		Isolation switch on battery	N/A	No isolator fitted to this model		
	Y		Isolation decal	N/A			
d) Damaged Switches	Y		Only qualified and trained people must complete task and SWMS must be completed	Y			
9. FALLING – SLIPPING: Can anyone using the plant or in the vicinity of the plant, slip, trip or fall from heights over 2 meters?							
a) Lack of proper work platform	Y		Prevention of falls – <i>If hand rails are not fitted then a SWMS is required</i>	N/A	Will not step above 2m		
	Y		Falling Hazard Decal	N/A			
	Y		Non Slip Surface	Y			
b) Poor floor or walking surface	Y		Non Slip tape	Y			
c) Lack of proper stairs or steps	Y		Steps and footings in place	Y			
	Y		Use three points of contact decal	Y			
d) lack of guardrail/ handrail/grabs	Y		Guardrails – hand rails in place	Y			
	Y		Fall from over 2 metres	N/A			

e) Can someone fall from over 2M?	Y		Guardrails/Harness/Platform Ladder	N/A			
f) Poor housekeeping	Y		No visible signs of excessive lubricant leakage	Y			
	Y		Operators station clear of debris, tools, bottles, chains, grease gun	Y			
Potential Hazard	Identified		Control Methods in Place	Yes/No	Additional Control Methods Required	Action Date	Date Completed
	YES	NO					
10. ERGONOMIC: Can anyone be injured due to:							
a) Poor seating	Y		Seat adjustment controls operating	Y			
	Y		Seat in usable condition	Y			
b) Constrained body effort	Y		Operating levers and pedals in operators reach	Y			
	Y		Remove rear vandal cover each day decal	N/A	Does not have vandal cover fitted		
11. SUFFOCATION: Can anyone be suffocated due to lack of oxygen or atmospheric contamination?							
a) Heat Stress	Y		Ventilation	Y	Carry water and wear correct PPE		
	Y		Air Conditioning	Y			
12. OTHER HAZARDS: Can anyone be injured or suffer ill-health from exposure to chemicals, toxic gases, or vapours, fumes, dust, noise, vibration, radiation or other factors not mentioned?							
a) Hazardous substances, noise, dangerous goods, plant, manual handling, trenching, prevention of falls	Y		Addressed by MSDS, compliance codes and training	Y			
b) Fumes	Y		Engine fumes not excessive at high idle	Y			
	Y		Window seals serviceable	N/A			
c) Noise	Y		In limit of 85 dB	Y	High Revs: 88 dB		
	Y		Hearing protection supplied	Y			
	Y		Hearing protection decal	Y			
d) Other items	Y		Load capacity chart fitted	N/A			
	Y		Lifting points – closed eye	N/A			
	Y		SWL – WWL decal on machine	N/A			
	Y		Lift over 1 tonnes	N/A			
	Y		Lock out fitted	N/A			
	Y		Operator issued with PPE	Y			
e) Chemicals	Y		MSDS (Material Safety Data Sheets)	Y			

Potential Hazard	Identified		Control Methods in Place	Yes/ No	Additional Control Methods Required	Action Date	Date Completed
	YES	NO					
13. OPERATOR							
a) Does the operator hold a certificate of safety qualification to operate this plant	Y		Holds relevant qualifications	Y	To be assessed by company		
	Y		Certificate No	Y			
	Y		Types of plant	Y			
	Y		Issue date	Y			
b) Operators manual issued	Y		In the machine/office	Y	To be assessed by company		
	Y		Operators manual in English	Y			
	Y		Manual in readable condition	Y			
	Y		Instructions for attachments	Y			
14. DOCUMENTATION: Can documentation be provided for:							
a) daily plant inspection record book	Y		Plant inspection book/sheets	Y	Addressed by daily checklists		
	Y		Date of last entry	Y			
b) Servicing and maintenance of records (Crack testing report – cranes, concrete booms)	Y		Records held by company and available upon request	Y	If not on site, addressed by company		

This ‘Static Hazard & Risk Assessment of Mobile Plant’ addresses all the requirements of:

- National Standards For Plant (NOHSC:1010 (1994))
- Victorian Occupational Health & Safety Act 2004
- Occupational Health & Safety Regulations 2007
- The Worksafe booklet “Understanding the Plant Safety Package”
- The Worksafe Plant Hazard Checklist.
- The Hierarchy of Hazard Control which addresses:
 1. Elimination. *this is a permanent solution and should be attempted in the first place.*
 2. Substitution. *this includes Plant, which present a lower level of risk.*
 3. Engineering. *involves changing the structure, eg. Guarding.*
 4. Isolation. *separate the person from the Plant, eg, Operating in an enclosed area.*
 5. Administrative. *Provide a system that reduces the possibility of a person being exposed to the hazard*
 6. Personal Protective Equipment. *is generally used as a short term control measure.*

The items addressed from the WorkSafe Plant Hazard Checklist and the attached ‘Static Hazard & Risk Assessment of Mobile Plant’ as follows:

1. ENTANGLEMENT
2. CRUSHING
3. CUTTING
4. SHEARING
5. FRICTION
6. STRIKING
7. HIGH PRESSURE FLUID
8. ELECTRICAL
9. FALLING/SLIPPING
10. ERGONOMICS
11. SUFFOCATION
12. HIGH TEMPERATURE
13. OTHER HAZARDS

14. OPERATOR
15. DOCUMENTATION

All the above items have been addressed in the 'Static Hazard & Risk Assessment of Mobile Plant' and have been controlled by the following:

THE HIERARCHY OF HAZARD CONTROL

Elimination. *this is a permanent solution and should be attempted in the first place.*

Not required for this item of plant

Substitution. *this includes Plant, which present a lower level of risk.*

Not required for this item of plant

Engineering. *involves changing the structure, eg. Guarding.*

Not required for this item of plant

Isolation. *separate the person from the Plant, eg, Operating in an enclosed area.*

Not required for this item of plant

Administrative. *Provide a system that reduces the possibility of a person being exposed to the hazard*

Addressed by placing safety decals in areas of low risk on this item of plant

Personal Protective Equipment. *is generally used as a short term control measure.*

Other than the general PPE that is required by all worksites no special PPE is required for the operator of this item of plant

OTHER CONTROLS

Areas of low risk, *decals have been placed to warn operators and other workers.*

Areas of medium risk, *comments have been made and are to be addressed by the owner.*

Areas of high risk, *the machine will be tagged, "do not use", keys removed and reported to owner.*