

PLANT HAZARD & RISK ASSESSMENT

Phone: 0404 462 239

reports@vipersafety.com.au



Clients Name: BLUE XPLUS PTY LTD		RA No: 900922
Machine Make & Model: CASE CX350C		Date Conducted: 12 SEPTEMBER 2022
Serial No: NFS6P1426		Equipment Type: TRACKED EXCAVATOR
Asset/Rego No: N/A		Engine Hours: 10768
Quick Hitch (if fitted): DOHERTY		REPLACE DAMAGED DECALS CRACKS ON HITCH – TO BE RECTIFIED BEFORE USE VARIOUS WORK LIGHTS NOT WORKING BENT STEPS ON TRACK FRAME
Rated capacity: 3928kg LPC		
Certification of operator required: Yes=EXCAVATOR		

Is the plant designed to perform the task as outlined in the scope? Yes ☒ No ☐ _____

Has the plant been modified from the original condition? Yes ☐ No ☒ _____

All identified action items closed out/addressed? Yes ☐ No ☒ AS PER ASSESSMENT

STEP 1: Likelihood of Occurrence	STEP 2: Severity of Result
1. Expected To Occur (once per week)	A Fatality
2. Common (once per month)	B Permanent Disability
3. Sometimes (once per year)	C Lost Time Injury (LTI)
4. Rarely (once in < 20 years)	D Medical Treatment / Damage
5. Highly Unlikely (once in > 20 years)	E First Aid Injury

STEP 3:	A	B	C	D	E
1	H	H	H	M	M
2	H	H	M	M	L
3	H	M	M	L	L
4	M	M	L	L	L
5	M	L	L	L	L

STEP 4: Hazard Risk Assessment
H = High Risk (INTOLERABLE, significant and urgent actions required- Immediate Action).
M = Medium Risk (ALARP, reduce risk to As Low As Reasonably Practicable).
L = Low Risk (TOLERABLE, monitor and manage risk).

Report Acceptance

General Notes

The Owner/Operator of the above Plant/Equipment should perform an inspection at regular intervals, that all procedures and control methods are maintained to an acceptable level where the level of risk to any person is increased. In particular when any alteration or modification is made to the Plant/Equipment, a review of both Control Methods and Documentation should be made.

A Plant Risk Assessment should be performed at regular intervals with a minimum of **once per year**.

Confidentiality

Information obtained from the **owner/ operator** in the course of producing this report will be treated as confidential. It will not be used for any purpose other than for the production of this report.

Disclaimer

This report has been prepared by **Viper Safety and Training P/L** for the purpose of determining compliance to the **National OH&S regulations of 2017**.

The contents of this report are intended only for use by the **owner/operator**. Whilst every effort has been made by **Viper Safety and Training P/L** to ensure the accuracy of this report **Viper Safety and Training P/L** will not be held responsible and extends no warranties as to the suitability of such information or for the consequence of its use. Likewise, **Viper Safety and Training P/L** will not be held responsible for actions taken by third parties as a result of information contained in this report. This report is not to be modified in any way unless done so by **Viper Safety & Training Pty Ltd**.

Viper Safety & Training Pty Ltd will not be held accountable for any damage caused by operator error and/or mechanical/structural failures.

It is the duty of the operator to read and understand the operators manual.

It is the responsibility of the owner/hirer to ensure this plant is maintained and compliance tested in accordance with all relevant Australian Standards.

Brent Woll
Cert IV Training & Assessment
Cert No: 14042902

**ALL HAZARDS IDENTIFIED IN THIS DOCUMENT MUST BE RECTIFIED WITHIN 21 DAYS OF DATE LISTED ON THE FRONT OF THIS FORM
IF FAULTS NOT RECTIFIED IN 21 DAYS THIS DOCUMENT BECOMES NULL AND VOID**

THIS RISK ASSESSMENT DOCUMENT IS VALID FOR TWELVE (12) MONTHS FROM THE DATE OF ISSUE

Hazard Type	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements	Projected Risk Score
ENTANGLEMENT Can anyone's, hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion? FITTED IN ACCORDANCE WITH AS/NZS 4024.1601: 2014	Manufacturers Warning Decals Readable	Y		All decals in operator cab	M
	Guards installed:				
	Engine fan	Y			
	Belts & pulleys	Y			
	Warning decals for personal (i.e .loose clothing etc)	Y			
	Engine covers fitted	Y			
	Rotating parts decal	Y			

CRUSHING					
Can a person be crushed due to:					
♦ Uncontrolled or unexpected movement of the plant or its load?	Reversing/travel alarm	Y			M
	Crush zone warning decal at hitch connection	Y			
	Crush zone warning decal at slewing platform/ track frame	Y			
	Crush zone warning decal at blade	Y			
	Amber flashing beacon	Y			
	Pedal non-slip surface	Y			
	Controls have appropriate knobs	Y			
	Reversing camera	Y			
	Rear view mirror	Y			
	Control pod safety switch operational	Y			
	Rear swing warning decal or swing lights fitted	Y			
	Machine may suddenly reverse warning decal fitted	Y			
♦ Lack of capacity for the plant to be slowed, stopped or immobilised?	Battery isolator fitted	Y			M
	Lockable type isolator		N/A		
	Battery isolator decal fitted	Y			
	Starter isolator fitted		N/A		
	Lockable type isolator		N/A		
	Starter isolator decal fitted		N/A		

PLANT HAZARD & RISK ASSESSMENT

Phone: 0404 462 239

reports@vipersafety.com.au




RISK



CONTROL



SAFETY

Hazard Type	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements	Projected Risk Score
	Emergency stops (if fitted)	Y		X1	
♦ The plant tipping or rolling over?	Cabin identification number:	Y		155BDQ63	M
	ROPS decal fitted to ROPS	Y			
	ROPS approved structure	Y			
	FOPS approved structure	Y			
	TOPS approved structure		N/A		
	Operator protection guard	Y			
	Manufacturers designed cab		N/A		
	Emergency Exit Identified	Y			
	Vandal covers fitted	Y			
	Vandal cover decal fitted	Y			
♦ Being thrown off or under the plant? WARNING: The seatbelt on this machine may be out of date. Please check operator's manual for correct guidance and replace seatbelt if necessary (3 year limit on most machines)	Seat belt fitted	Y			L
	Door fitted	Y			
	Seat belt must be worn, warning decal fitted	Y			
♦ Material falling of the plant AS 4772-2008	Hitch Type: Hydraulic with Pin		N/A		X1
	Hydraulic without Pin	Y			
	Mechanical		N/A		
	Hitch ID plate fitted and readable	Y			
	Quick hitch alarm operational	Y			
	Quick hitch activation switch identification decal	Y			
	Hitch in usable condition	N			
	Quick hitch indication light fitted		N/A		
	Attachments		N/A		
	Moving Bucket/Blade	Y			

PLANT HAZARD & RISK ASSESSMENT

Phone: 0404 462 239

reports@vipersafety.com.au



Hazard Type	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements	Projected Risk Score
CUT/STAB/PUNCTURE Can anyone be cut, stabbed or punctured due to: ♦ Coming into contact with sharp or flying objects?	Guarding No visible signs of sharp objects	Y			L
♦ Coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair of the plant?	<ul style="list-style-type: none"> Safe work procedures in place Trained persons only LOTO procedures to be in place 	N		To be implemented by owner/hirer	L
♦ The plant, parts of the plant or work pieces disintegrating?	<ul style="list-style-type: none"> Safe work procedures in place Trained persons only 	N		To be implemented by owner/hirer	L
♦ Work pieces being ejected?	<ul style="list-style-type: none"> Safe work procedures in place Trained persons only LOTO procedures to be in place 	N		To be implemented by owner/hirer	L
♦ The mobility of the plant?	<ul style="list-style-type: none"> Safe work procedures in place Trained persons only LOTO procedures to be in place 	N		To be implemented by owner/hirer	L
♦ Uncontrolled or unexpected movement of the plant?	<ul style="list-style-type: none"> Safe work procedures in place Trained persons only LOTO procedures to be in place 	N		To be implemented by owner/hirer	L

SHEARING Can anyone's body parts be sheared between any two parts of the plant, or between a part of the plant and a work piece or structure?	<ul style="list-style-type: none"> Safe work procedures in place Traffic management in place Supervision in place 	N N		<p>To be implemented by owner/hirer</p> <p>To be implemented by owner/hirer</p>	L
---	--	--------	--	---	---

FRICTION Can anyone be burnt due to contact with moving parts or surfaces of the plant, or material handled by the plant?	As above	N		To be implemented by owner/hirer	L
---	----------	---	--	----------------------------------	---

PLANT HAZARD & RISK ASSESSMENT

Phone: 0404 462 239

reports@vipersafety.com.au



RISK



CONTROL



SAFETY

Hazard Type	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements	Projected Risk Score
STRIKING Can anyone be struck by moving objects due to: ♦ Uncontrolled or unexpected movement of the plant?	<ul style="list-style-type: none"> Safe work procedures in place Traffic management in place Supervision in place 	N		To be implemented by owner/hirer	M
♦ The plant, parts of the plant or work pieces disintegrating?	As above	N		To be implemented by owner/hirer	L
♦ Work pieces being ejected?	Guards installed: Engine fan guard Belts & pulley guards	Y Y			M
	Keep clear warning decals fitted to jib arm of excavator x2	Y			
	Keeper pins correct type	Y			
♦ Mobility of the plant?	Glass safe operational condition Reversing / travel alarm Amber flashing beacon Reversing decal fitted Height/slew limiter fitted Warning horn Front and/or Rear work lights Reflective side marking fitted UHF operator communication fitted	Y Y Y Y Y N N/A N/A	 N/A N/A	X4 NOT WORKING	M

Hazard Type	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements	Projected Risk Score
HIGH PRESSURE FLUID Can anyone come into contact with fluid under pressure due to plant failure or misuse	Leakage	Y		Refer to manual for location & relieving instructions.	L
	All pipe clamps fitted	Y			
	Hydraulic accumulator fitted	Y			
	High pressure warning decals	Y			
	High pressure coolant decal	Y			L
	Radiator cap fitted (pressure relief type)		N/A		
	Track adjuster decal fitted	Y			
	Auto greasing system fitted		N/A		
	No return valve fitted (Craning/lifting valves fitted)	Y		CRANING VALVES FITTED IN ACCORDANCE WITH AS 1418.8-2008, ISO 8643-2017	M

EMERGENCY/ RECOVERY FUNCTIONS Is it possible for the operator to move machine due to plant failure (hydraulic movements only)	Pilot control module functions	Y			L
---	--------------------------------	---	--	--	---

ELECTRICAL Can anyone be injured by electrical shock or burn due to: ♦ The plant contacting live electrical conductors?	Electrical wire / overhead wires / obstructions decals fitted	Y		Addressed by JSA. (no go zone)	L
♦ Damaged or poorly maintained electrical leads and cables?	Electrical cables and/or leads to be maintained to OEM specifications	Y			L
♦ Damaged electrical switches?	Electrical switches to be maintained to OEM specifications	Y			L
♦ Lack of isolation procedures?	Battery isolator fitted	Y			L
♦ The plant contacting live power lines	Look up and live decal fitted	Y			L
	Powerline clearance decal fitted	Y			L

PLANT HAZARD & RISK ASSESSMENT

Phone: 0404 462 239

reports@vipersafety.com.au



RISK



CONTROL



SAFETY

Hazard Type	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements	Projected Risk Score
EXPLOSION Can anyone be injured by explosion of gasses, vapours, liquids, dusts or other substances, triggered by the operation of the plant or by material handled by the plant?	Hydraulic accumulator	Y		Refer to manual for location & relieving instructions	M
Battery risk of explosion	Decal fitted	Y			L

SLIP/TRIP/FALL Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to: ♦ Uneven or slippery work surfaces?	Non-slip surface	Y			L
♦ Poor housekeeping, eg. Debris in the vicinity of the plant, spillage not cleaned up?	Work platform to be kept free of debris	N		To be implemented by owner/hirer	
♦ 3 points of contact warning decal	Decal fitted	Y			L
♦ Lack of a proper work platform?	Proper work platform	Y			L
♦ Lack of proper stairs, ladders and or grabrails?	Proper stairs, ladders and/or grabrails	N		BENT STEPS ON TRACK FRAME	L
♦ Lack of guardrails or suitable edge protection?	Guardrails or suitable edge protection	Y		HANDRAILS FITTED IN ACCORDANCE WITH AS 3868-1991	L
♦ Steep walking surfaces?	Systems in place to prevent falls and/or slippage	N		To be implemented by owner/hirer	L

ERGONOMIC Can anyone be injured due to: ♦ Poorly designed seating?	Seat in safe usable condition	Y			L
♦ Constrained body effort	Operational control levers & pedals in operator reach	Y			L
	Seat adjustment controls operational	Y			
♦ Operator controls	Operator controls identified	Y			L
	All labels are readable	Y			

PLANT HAZARD & RISK ASSESSMENT

Phone: 0404 462 239

reports@vipersafety.com.au



Hazard Type	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements	Projected Risk Score
SUFFOCATION Can anyone be suffocated due to lack of oxygen or atmospheric contamination, refer to the Confined Spaces Regulations?	Engine fumes not excessive at high idle	Y			L
	Door/window seals maintained	Y			
TEMPERATURE / FIRE Can anyone come into contact with objects at high temperature? To be maintained & tested to AS 1851-2012	High mounted exhaust not easily accessible	Y			L
	Hot surface warning decal	Y			
	Hot hazardous exhaust decal	Y			
	Fire extinguisher supplied	Y			
THERMAL COMFORT Can anyone suffer ill health due to extreme temperature or change of weather? Any window tinting shall be at a minimum of 35%VLT (visible light transmission)	Ventilation	Y			L
	Air conditioning	Y			
	Window tint fitted		N/A		
NOISE Can anyone suffer ill health or hearing loss due to exposure to high noise levels? HEARING PROTECTION TO BE USED AT 85dB	High noise levels	Y		To be implemented by owner/hirer	L
	Hearing protection supplied	N			
	Hearing protection warning decal	Y			
Load Capacity To be calculated in accordance with ISO 10567-2007	Rated capacity marked on boom	Y			
	Lifting points approved	Y			
	Rated capacity indicator fitted		N/A		
	Rated capacity chart fitted	N			



PLANT HAZARD & RISK ASSESSMENT

Phone: 0404 462 239

reports@vipersafety.com.au



RISK



CONTROL



SAFETY

DOCUMENTATION:

The following documentation shall be made available upon request:

Operator's Manual
Attachment instructions
Plant daily checklist
Plant maintenance records
Appropriate SWMS/JSAs
Hitch maintenance records

