

PLANT HAZARD & RISK ASSESSMENT

Phone: 0404 462 239



Client's Name: BETTER RENTALS		RA No: 152491221
Machine Make & Model: YANMAR VIO17-1		Date of assessment: 09 DECEMBER 2021
Serial No:		Equipment Type: RUBBER TRACKED EXCAVATOR
Asset/Rego No: N/A		Engine Hours: 1.7
Quick Hitch (if Fitted): WEDGELOCK 1/2		
Rated capacity: 90kg 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 _____

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).

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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.

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

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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			
	Rear view mirror		N/A		
	Control pod safety switch operational	Y			
	Rear swing warning decal or swing lights fitted	Y			
♦ Lack of capacity for the plant to be slowed, stopped or immobilised?	Machine may suddenly reverse warning decal fitted	Y			
	Battery isolator fitted		N/A		
	Lockable type isolator		N/A		
	Battery isolator decal fitted		N/A		
	Starter isolator fitted		N/A		
	Lockable type isolator		N/A		
	Starter isolator decal fitted		N/A		
	Emergency stops (if fitted)		N/A		

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♦ The plant tipping or rolling over?	Cabin identification number:	Y			M
	ROPS decal fitted to ROPS	Y			
	ROPS approved structure	Y			
	FOPS approved structure	Y			
	TOPS approved structure		N/A		
	Operator protection guard		N/A		
	Manufacturers designed cab		N/A		
♦ 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		N/A		
	Seat belt must be worn, warning decal fitted	Y			
♦ Material falling of the plant AS 4772-2008	Hitch Type: Hydraulic with Pin		N/A		
	Hydraulic without Pin		N/A		
	Mechanical	Y			
	Hitch ID plate fitted and readable	Y			
	Quick hitch alarm operational		N/A		
	Quick hitch activation switch identification decal		N/A		
	Hitch in usable condition	Y			
	Quick hitch indication light fitted		N/A		
	Height limiter fitted		N/A		
	RCI fitted in cabin		N/A		
	Attachments		N/A		
Moving Bucket/Blade	Y				

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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	To be implemented by owner/hirer To be implemented by owner/hirer	L
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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
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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 Keep clear warning decals fitted to jib arm of excavator x2 Keeper pins correct type	Y Y Y Y			M
♦ Mobility of the plant?	Glass safe operational condition Reversing / travel alarm Amber flashing beacon Reversing decal fitted Warning horn Front and/or Rear work lights Reflective side marking fitted UHF operator communication fitted		N/A Y Y Y Y Y N/A N/A		M

HIGH PRESSURE FLUID Can anyone come into contact with fluid under pressure due to plant failure or misuse	Leakage All pipe clamps fitted Hydraulic accumulator fitted High pressure warning decals High pressure coolant decal Track adjuster decal fitted Auto greasing system fitted No return valve fitted (Craning/lifting valves fitted)	Y Y Y Y Y Y N/A N/A		Refer to manual for location & relieving instructions.	L M
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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		N/A		L
♦ The plant contacting live power lines	Look up and live decal fitted	Y			L
	Powerline clearance decal fitted	Y		L	

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

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♦ Lack of proper stairs, ladders and or grabrails?	Proper stairs, ladders and/or grabrails	Y			L
♦ Lack of guardrails or suitable edge protection?	Guardrails or suitable edge protection		N/A		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			
♦ Operators controls	Operators controls identified	Y			L
	All labels are readable	Y			

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		N/A		

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		TAGGED DEC 2021	L
	Hot surface warning decal	Y			
	Hot hazardous exhaust decal	Y			
	Fire extinguisher supplied	Y			

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THERMAL COMFORT Can anyone suffer ill health due to extreme temperature or change of weather?	Ventilation	Y			L
	Air conditioning		N/A		

NOISE Can anyone suffer ill health or hearing loss due to exposure to high noise levels?	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 chart fitted (showing)	Y			

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

LIFT POINT CAPACITY - Yanmar VIO17-1

	STATIONARY	MOBILE
BOOM OVER SIDE OR 360°	90 Kg	80 Kg

Date Chart Authenticated: 08/12/2021
Machine Serial Number: 10704-VIO171

OPERATING NOTES:

- Above capacities are the maximum freely suspended loads permitted in compliance with AS1418.3-2008 with the machine on firm level ground, and include mass of all lifting tackle.
- Capacities are based on excavator equipped with:
 - Standard Dipper Arm (950mm)
 - 230mm Rubber Track
 - NO Holding Valves Fitted
 - With Blade Attachment in raised position
 - WedgeLock Model No. HMJ-022-20, s/n: 09238, mass: 16kg

WARNING! ALL BUCKETS & ATTACHMENTS MUST BE REMOVED FOR ALL LIFTING APPLICATIONS.

- When mobilising with a load, the load must be kept close to the ground (Max. 300mm) and the ground speed to a minimum. Maximum Side Slope 4:1.
- Lifting point provided on quickhitch device must only be used in conjunction with Safety Dee (or Bow) Shackle.
- For safe operation, the user shall make due allowance for particular job conditions such as soft or uneven ground, out of level conditions, side loads swinging loads due to jerking or sudden stopping and experience of personnel.
- Operator should be fully acquainted with the operator's manual before operating this machine. Rules for safe operation of equipment must be followed at all times.
- Suspended loads must not be lifted over personnel.
- Where this machine has a Knuckle Boom arrangement OR is fitted with a Rotating / Tilt Quick Hitch, ensure that the Boom arrangement is in the straight position and the Quick Hitch is in a neutral / vertical position.
- Take particular care when lifting with an off-centre lift point eye hitch arrangement.

TUTT BRYANT Equipment P.L., 8 Ferngrove Place South Granville NSW

