## Ideagen RISK MA

### **RISK MANAGEMENT REPORT**

HAMMER

ТҮРЕ	Excavator - Large (20 Tonne +)
MAKE	Caterpillar
MODEL	320
SERIAL NUMBER	YCP20067
PLANT NUMBER	AHSH78
Report Number	AHH 20250217-1344
Date	17-Feb-2025
Created By	AHSH Service
Assessor	Mitchell Pennells
Assist. Assessor(s)	Mitchell Pennells
Completed By	AHSH Service
Owner	Australian Hammer Supplies Hire Pty Ltd
Assessment Purpose	Hire
State	NSW

## TABLE OF CONTENTS

SECTION 1	<b>IMPORTANT INFORMATION</b> Contains information outlining the scope and any limitations applicable to this Risk Management Report
SECTION 2	MACHINE DETAILS Contains standard machine specifications and details of any extras fitted
SECTION 3	<b>RISK ANALYSIS, RISK EVALUATION &amp; RISK TREATMENT</b> Contains details of the technique used to calculate risk ratings, time frame and risk treatments. Please refer to this information when reviewing and interpreting the information in section 4 & 5
<b>SECTION 4</b>	<b>RISK TREATMENTS REQUIRED</b> Contains detailed information regarding the risk treatments to be implemented including hazard, risk rating, time frame, relevant standards & legislative references
SECTION 5	<b>RISK TREATMENTS IN PLACE</b> Contains detailed information regarding the risk treatments in place including hazard, risk rating, relevant standards & legislative references
SECTION 6	IMAGES AND NOTES Contains images & any relevant information entered by the assessor





Serial Number Assessed By Date

#### **SECTION 1** IMPORTANT INFORMATION

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This report pertains to this item of plant as it appeared on the day of inspection.

It is the responsibility of the hirer to conform with the instructions and information contained within this report. Any change in condition of this item of plant should be reported to the hire company immediately.

Any information relating to the standard features have been supplied via the manufacturer and should be used as a guide only until verified.

For further information regarding this report contact Online Safety Systems on 1300 72 88 52

#### **SECTION 2** MACHINE DETAILS

S		1. Manufacturers specified noise level dBA	99 External
Ľ I		2. Ambient noise level dBA	
<u></u>		3. Noise level - Operator position (high idle) dBA	70
	- NOISE TEST RESULTS	4. Noise level - Operator position (low idle) dBA	
		5. Noise level LHS dBA @ m (high idle)	
		6. Noise level Front dBA @ m (high idle)	
۳ ۲		7. Noise level RHS dBA @ m (high idle)	
두 🗖		8. Noise level Rear dBA @ m (high idle)	
<b>ਹ</b>	BUCKET	Standard bucket capacity, SAE rated (m3)	1.19
MACHINE DETAILS		Standard bucket width (mm)	1050
Σ	CAPACITIES	Fuel Tank Capacity (Litres)	345
		Dig depth to cut 2.44 m level bottom (mm)	6550
		Digging depth (mm)	6720
		Dump height (mm)	6490
		Ground clearance (mm)	470
		Max depth of vertical wall (mm)	5190
	DIMENSIONS/WEIGHTS	Maximum Reach Height (mm)	
		Operating weight (kg)	22500
		Tailswing radius (mm)	2830
		Transport Height (mm)	2960
		Transport Length (mm)	9530
		Width (mm)	2980
		Engine Displacement (Litres)	4.4
	ENGINE	Engine Hours	
		Engine Make & Model	CAT C4.4 Acert
		Engine Number	
		Engine Power (kW@rpm)	121@1800
		Number of Cylinders	4
	EXTRAS	Spare spool for attachments? Yes/No	Yes
		Quick Hitch Make	
	HITCH	Quick Hitch Model	
		Quick Hitch Serial No.	
		Flow of main pumps (L/Min)	429
	HYDRAULICS	Hydraulic Oil Reservoir Capacity (Litres)	115
	III DICAOLIOS	Pump Types	VDAP
		Relief valve pressure, main pumps (Bar)	
	PLANT CLASSIFICATIONS	Class	
	I LANT OLASSII IOATIONS	Year	2018
		FOPS Compliance No.	
	SAFETY STRUCTURES	FOPS Serial No.	
	SALLI STRUCTURES	ROPS Compliance No.	
		ROPS Serial No.	
	TRACKS	Track length on ground (mm)	3270
		Track pad width (mm)	600
	TRANSMISSION	Speed (km/h)	5.7
	WORK CAPABILITIES	Arm breakout (kgf)	9600
		Bucket breakout (kgf)	11500





Gradeability - Degrees/(%)	70
Reach @ ground level (mm)	9860





#### SECTION 3 RISK ANALYSIS / RISK EVALUATION

RI	RISK ANALYSIS						
			CONS	SEQUENCE			
dool		1. INSIGNIFICANT Dealt with by in house first aid	2. MINOR Treated by medical professionals, hospital out patients	3. MODERATE Significant non permanent injury overnight hospital stay	4. MAJOR Extensive permanent injury eg. Loss of fingers, extended hospital stay	5. CATASTROPHIC Death, permanent disabling injury eg. Loss of hand, quadriplegia	
LIKELIHOOD	A. Almost certain to occur in most circumstances	MEDIUM 8	HIGH 16	HIGH 18	CRITICAL 23	CRITICAL 25	
Ļ	B. Likely to occur frequently	MEDIUM 7	MEDIUM 10	HIGH 17	HIGH 20	CRITICAL 24	
	C. Possibly and likely to occur at sometime	LOW 3	MEDIUM 9	MEDIUM 12	HIGH 19	HIGH 22	
	D. Unlikely to occur but could happen	LOW 2	LOW 5	MEDIUM 11	MEDIUM 14	HIGH 21	
	E. May occur but only in rare circumstances	LOW 1	LOW 4	LOW 6	MEDIUM 13	MEDIUM 15	

NUTION	CRITICAL	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below.
		Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below. If the appropriate risk treatments are not immediately accessible establish interim risk treatment strategies. Permanent risk treatments must be implemented within one week.
	MEDIUM	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within one month.
	LOW	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatments must be implemented within three months.

**RISK TREATMENT** 

TREATMENT	Selecting the most appropriate risk treatment option involves balancing the costs and efforts of implementation against the benefits derived, with regard to legal, regulatory and other requirements. (source AS/NZS ISO 31000:2018)			
REAT	Eliminate	Eliminate the risk source.		
<b>RISK T</b>	Substitute	Provide an alternative that is capable of performing the same task which is safer.		
Ľ	Isolate	Isolate people from the hazard.		
	Engineering	Provide or construct a physical barrier or guard.		
	Administration	Develop policies, procedures, practices and guidelines in consultation with employees to mitigate the risk. Provide training, instruction and supervision about the risk source.		
	Personal protective	Provide personal protective equipment to protect the individual from the risk source.		





MakeCaterpillarModel320TypeExcavator - Large (20 Tonne +)

Serial Number Assessed By Date

#### SECTION 4 RISK TREATMENTS REQUIRED

This section of the report pertains to hazards created by use of this item of plant which currently do not have risk treatments in place. The risk treatments recommended in this section have been developed based on relevant Australian Standards, health & safety legislation, the hierarchy of risk treatment in accordance with the guidelines set forth in AS/NZS ISO 31000 – Risk Management and various other sources. The recommended risk treatment measures must be developed, implemented and validated as effective prior to the operation, maintenance or testing of this item of plant. Treatments applied must be dated and initialled adjacent the recommendations. All operators must read and understand the entire contents of this section prior to operating this item of plant.

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	Time Frame	Due Date	Date Rectified	Initial
NOI		CRITICAL 24	MEDIUM 15	Immediate	17-Feb-25		
ONLY         Risk Treatment Required: Operator Competency         Only persons who are qualified, trained and experienced and/or hold the relevant certification/license can operate this item of plant. If there i competent/licensed person available for operation of this item of plant then only persons who are supervised by a competent/licensed person operate this item of plant.							
	operate this item of plant.						
	operate this item of plant. Legislation: State Health & Safety Legislation & F	Regulation					
		0	Health & Safety Act	& Regulations			

#### **SECTION 5** RISK TREATMENTS IN PLACE

This section of the report pertains to risk treatments currently in place on this item of plant. This section must be read in conjunction with the safety section of the manufacturers handbook. All operators must read and understand the entire contents of this section prior to operating this item of plant. These treatments or equivalent must remain in place at all times whilst this item of plant is in operation.

		HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating			
ELIVERY		CRUSHING	HIGH 22	MEDIUM 15			
≥	Risk Treatments in Place: SWMS Loading/Unloading						
DEL	Ensure that all operators follow approved SWMS/SOP when loading and unloading this machine to and from a flat top truck or trailer, low loader or tilt tray.						
	References: Work Health & Safety Act & Regulations-, Occupational Health & Safety Act & Regulations						
		CRUSHING	HIGH 22	MEDIUM 15			
	<b>Risk Treat</b>	ments in Place: SWMS Load Restraint					
	1	all operators follow the approved SWMS/SOP when restraining this machine for	1				
	References	s: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act &	& Regulations				
lion		CRUSHING	CRITICAL 24	MEDIUM 15			
PERATION	Risk Treatments in Place: Manual Hitch This item of plant is fitted with a manual hitch that meets the following requirements -						
Б	1. Has a prin	nary retention system and a secondary safety system fitted					
		ry retention system must be engaged and disengaged at the hitch					
	3. The secor	ndary safety system must be retained on the hitch so that it cannot be removed v	vithout the use of tools.				
	These requir	ements must be met at all times whilst this item of plant is in operation.					
	References						
		CRUSHING	CRITICAL 24	MEDIUM 15			
	Risk Treat	nents in Place: Quick Hitch Movement					
	This item of	plant is fitted with a quick hitch which will not allow unintended movement of the	attachment if the primary rete	ention system fails.			
	References	s: AS13031					



Make Caterpillar Model 320 Type Excavator - Large (20 Tonne +) Serial Number Assessed By Date

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating				
INCORRECT OPERATION	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Operation Handbook The manufacturer's operation handbook has been supplied for this item of plant.						
This handbook must be available at all times to all potential operators and supervisory staff. All potential operators must read and be familiar with this handbook prior to operating.						
A complete risk assessment/Job Safety Analysis must be undertaken covering all operating plant. SWMS should be produced for specific tasks associated with use of this item of plant.	A complete risk assessment/Job Safety Analysis must be undertaken covering all operating processes and environments associated with this item of plant. SWMS should be produced for specific tasks associated with use of this item of plant.					
References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations	1				
	HIGH 22	MEDIUM 15				
<b>Risk Treatments in Place: Quick Hitch Operation Handbook</b> The manufacturer's operation handbook has been supplied for this quick hitch.						
This handbook must be available at all times to all potential operators and supervisory staff. this handbook prior to operating.	All potential operators must r	ead and be familiar with				
A complete risk assessment/Job Safety Analysis must be undertaken covering all operating hitch. SWMS should be produced for specific tasks associated with use of this quick hitch.	processes and environments	associated with this quick				
References: AS13031	1	1				
	HIGH 22	MEDIUM 15				
<b>Risk Treatments in Place: Pre-op Checklist Excavator</b> A pre-operation checklist is available for this Excavator. This checklist must be completed by	all operators prior to operati	ng this Excavator.				
References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations	-				
	HIGH 22	MEDIUM 15				
<b>Risk Treatments in Place: SOP Excavator</b> Safe Operation Procedures are available for this Excavator. The information in the Safe Ope operating this Excavator.	ration Procedures must be fo	llowed at all times whilst				
References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations					
	HIGH 22	MEDIUM 15				
<b>Risk Treatments in Place: Control Labels</b> All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to their maintained in a clean and serviceable condition at all times.	purpose and method of opera	tion. These labels must be				
References: AS/NZS4024.1905						
CRUSHING, FALLING	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Passenger Seat Label This item of plant is fitted with a clear hazard warning label re: Operator only, No passengers	s. Passengers must not be ca	rried at anytime. This label				
must be clear and legible at all times whilst this item of plant is in operation.						
Legislation: State Health & Safety Legislation & Regulation References: AS1319-						
CRUSHING	HIGH 22	MEDIUM 15				
Risk Treatments in Place: ROPS Label						
The warning label stating that the ROPS must not be damaged at any time (including cuts, d at all times.	rill noles and welds) must be	present, clean and legible				
References: ISO3471						



Serial Number Assessed By Date

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating				
CRUSHING	HIGH 22	MEDIUM 15				
Risk Treatments in Place: ROPS seat belt label	Risk Treatments in Place: ROPS seat belt label					
This item of plant is fitted with a ROPS and has an advisory label stating that "seatbelts must	t be worn".					
This label must be present, clean and legible at all times.						
All operators and passengers must wear seatbelts whilst on this item of plant.						
References: AS2294, ISO3471						
	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Electrical Approach Distances						
This item of plant has a hazard warning label re: overhead electrical hazards and minimum a adhered to strictly. These labels and tables must be present, clear and legible at all times.	approach distances fitted. The	ese distances must be				
Spotters are required when working within 5 metres of the minimum approach distance of an	y live electrical apparatus.					
Any encroach within the minimum approach distances must only occur if the following provis 1. The machine is designed to work within the minimum approach distances 2. Permission has been granted by the electricity company and 3. Safe systems of work have been documented and approved.	ions have been met -					
References: ISO31000						
ELECTROCUTION, EXPLOSION	HIGH 22	MEDIUM 15				
<b>Risk Treatments in Place: Before You Dig (AUS)</b> This item of plant is fitted with a clear hazard warning label re: underground services and adv operator work area. This advice must be adhered to strictly. Digging into an electricity cable of a pipe or cable may also lead to isolating a community from emergency services such as fire and legible at all times.	or gas pipe can cause serious	s injury or death. Damaging				
References: ISO31000	T					
	HIGH 22	MEDIUM 15				
<b>Risk Treatments in Place: Phone Use label</b> This item of plant is fitted with an instruction label advising that mobile phones must not be u operators must not use a mobile phone at any time whilst operating machine. If phone use is configuration in a safe position prior to phone use. Operators MUST adhere to this advice at This label must be clear and legible at all times whilst this item of plant is in operation.	necessary then operator mu	• •				
References: AS1319- , ISO31000						
	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Tank ID Label						
The tank(s) on this item of plant have clear, legible label(s) identifying their contents, and if a		ntrols re: the contents.				
These must be present, clear and legible at all times. (this includes radiator, hydraulic, water	and petrol/diesel tanks etc.)					
References: Work Health & Safety Act & Regulations-, Occupational Health & Safety Act &	& Regulations	1				
	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Left Hand Drive Label						
This item of plant has a hazard warning label re: left hand drive, at the rear. It must be preser	nt, clear and legible at all time	es.				
References: ISO31000						
FIRE FIRE	HIGH 21	MEDIUM 15				
Risk Treatments in Place: Fire Extinguisher						
This item of plant is fitted with an approved and maintained fire extinguisher. Fire extinguisher They must be readily accessible to the operator. Regular inspections must also be carried ou and AS 1851 – 1995		-				
References: AS10896.1, AS1851						



	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating			
SWL	INSTABILITY, CRUSHING	HIGH 21	MEDIUM 15			
<b>Risk Treatments in Place: Boom Rated Capacity Label</b> This item of plant has a rated capacity label fitted to each side of the boom. Ensure that these labels are clear and legible at all times whilst this item of plant is in operation. Operators must not exceed this rated capacity at any time during operation.						
References	s: AS1418.8					
SML	INSTABILITY, CRUSHING	HIGH 21	MEDIUM 15			
This item of legible at all	<b>Risk Treatments in Place: Boom Lifting Point Table</b> This item of plant has a lifting point fitted to the boom, accordingly a load/distance table is present at the operator work area. This must be clear and legible at all times. This item of plant must comply with the relevant parts of AS 1418 at all times. All operators must be appropriately trained to use this item of plant and licenced where necessary.					
References	S. AS1410.0	1				
	CRUSHING, INCORRECT OPERATION	HIGH 21	MEDIUM 15			
	nents in Place: Quick Hitch Information ic quick hitch has the following information marked upon it -					
<ol> <li>Model</li> <li>Serial num</li> <li>The year of</li> <li>The mass</li> </ol>	facturer's name and address nber of manufacture of the hitch in kilograms int capacity (if fitted) in kilograms					
this informati	tion must be considered by all operators when assessing the suitability of the hi ion could lead to serious injury or death.	tch for any task. Failure to co	nsider and or comply with			
References	S: AS13031					
Ō	HEARING LOSS	HIGH 19	MEDIUM 14			
The hazard v	<b>ments in Place: Hearing Protection Label - Bystanders</b> warning labels re: wearing of hearing protection for bystanders attached to this i hearing damage will result if hearing protection is not worn. These labels must be eration.					
References	s: AS3781- , AS/NZS1269					
O	HEARING LOSS	HIGH 19	MEDIUM 14			
The hazard v damage will	ments in Place: Hearing Protection Label - Operator warning label(s) re: wearing of hearing protection attached to this item of plant re result if hearing protection is not worn. These labels must be present, clear and s: AS3781-, AS/NZS1269		•			
	CRUSHING, STRIKING, COLLISION	HIGH 19	MEDIUM 14			
<b>Risk Treatments in Place: Tail Swing Label</b> The rear of this item of plant has a hazard warning label re: general plant movement, tail swing, keep clear. It must be present and fully functional and serviceable at all times.						
References	s: ISO20474-	1				
00	ENTANGLEMENT, SHEARING, BURNS	MEDIUM 14	MEDIUM 13			
The engine f remove guar	Risk Treatments in Place: Engine Guard Label The engine fan and alternator belts, pulleys and gears are guarded. These guards have clear legible hazard warning labels re do not open or remove guards while engine is running. These labels must be present, legible and easily seen at all times whilst this item of plant is in operation. References: AS/NZS4024.1201, AS1319-					



Serial Number Assessed By Date

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
		MEDIUM 12	LOW 6		
	<b>Risk Treatments in Place: Warning Device (horn)</b> This item of plant is fitted with a fully functional audible warning device such as a horn. This must be easily accessed by the operator, and easily identifiable by nearby pedestrians.				
1	All operators should ensure the warning devices are functional at the start of each shift, by completing ore-start checklists. Warning devices should operate automatically where appropriate (eg reversing) References: ISO7731, ISO9533				
		MEDIUM 9	LOW 5		
-	Risk Treatments in Place: Recovery Point Label This item of plant is fitted with a hazard warning label adjacent the recovery tow point which states "Recovery tow point – Read manufacturer's towing instructions before towing". Failure to do so could result in DEATH or SERIOUS INJURY.				
	This label must be clear and legible at all times whilst this item of plant is in operation.				
	CRUSHING	CRITICAL 24	MEDIUM 15		
¦	Risk Treatments in Place: Fully Automatic Quick Hitch This item of plant is fitted with a fully automatic quick hitch.				
Ē ļ	References: AS13031				
	CRUSHING	CRITICAL 24	MEDIUM 15		
	This item of plant is fitted with a quick hitch that is fitted with a primary retention device and s 1. Must be intentionally disengaged to remove attachments 2. The safety system is automatically activated as part of the engagement process 3. Has means of verifying engagement of both the primary retention device and the safety system These requirements must be met at all times whilst this item of plant is in operation.				
	References: AS13031		1		
	CRUSHING	CRITICAL 24	LOW 1		
ŀ	Risk Treatments in Place: Closed Eye Lifting Point The lifting point fitted to this item of plant is the closed eye type. Hooks with out latching devices must not be used as a lifting point at any time. References: AS13031				
	CRUSHING	CRITICAL 24	LOW 1		
1	Risk Treatments in Place: Closed Eye Lifting Point With Latch The lifting point fitted to this item of plant is the open hook with latch type. Hooks with out latching devices must not be used as a lifting point at any time. References: AS13031				
H	References: AS 13031				
	STRIKING, BURNS	HIGH 22	MEDIUM 15		
-	Risk Treatments in Place: Hydraulic Hoses This item of plant has hydraulic hoses. These hoses must be inspected each day or before each use for wear and tear. If there are visible signs of wear, immediate action must be taken to control the risk arising from this wear. These inspections must be documented. Hydraulic fluid at high pressure can penetrate the skin, never use any part of your body to check for leaks. If oil penetrates the skin seek medical advice immediately. Always use a piece of cardboard or similar to check for suspected leaks. Always wear appropriate gloves when handling hydraulic hoses.				
1					
	Hydraulic pressure can be stored and is a hazard. Always connect and disconnect hydraulic hoses as per the manufacturer's manual.  References: AS4024, AS2671				
L					



Make Caterpillar

Type Excavator - Large (20 Tonne +)

Model 320

Serial Number

Assessed By

Date

YCP20067

AHSH Service

17-Feb-2025

Page 9 of 16

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating				
	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Loose Items - Operator Work Area						
All items that could cause harm to the operator in the event of a collision or rollover are see	curely restrained.					
References: ISO31000						
CRUSHING, NON COMPLIANCE						
Risk Treatments in Place: Control Lock out						
The primary operator controls are fitted with an isolation device which meets the following a) Must be engaged to allow entry & exit of the machine b) Is not easily bypassed.	requirements -					
This device deactivates the primary operator controls. This must be employed during entry plant.	, exit and while performing mai	ntenance on this item of				
This device must be fully functional at all times whilst this item of plant is in operation.						
References: ISO10968						
CRUSHING, ENTANGLEMENT, STRIKING, COLLISION	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Neutral Start						
This item of plant has neutral start control in place. It must be fully functional and serviceat	le at all times whilst this item o	of plant is in operation.				
References: AS4024.1603		~				
CRUSHING	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Seat Belt						
This item of plant is fitted with an operator seat belt. This seat belt must be free from dama	ge, and permanently and sturd	lily attached at all times				
whilst this item of plant is in operation. Operators must use this seat belt at all times during	operation.					
References: ISO6683						
If you can't						
POOR VISIBILITY, COLLISION	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Operator Mirrors						
The operator rear view mirrors fitted to this item of plant must be fully functional and kept of	lean at all times. There must al	ways be at least one mirror				
on each side to provide rear vision to the operator to avoid striking bystanders and objects						
References: AS/NZS4024.1201, ISO14401.1						
CRUSHING	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Movement Awareness Alarm						
An automatic movement awareness alarm is fitted to this item of plant. This alarm is automatically activated when travel in any direction occurs. It						
must be fully functional and serviceable at all times whilst this item of plant is in operation.						
References: ISO7731, ISO9533						
CRUSHING	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Quick Hitch Controls						
The quick hitch operation control is fitted with a device/method to prevent accidental operation. This device must be fully functional at all times whilst						
this item of plant is in operation.	,					
References: AS13031						
	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Hydraulic Hose Failure Shield						
This item of plant is fitted with a sturdy, permanent shield(s) between the hydraulic hoses and any body parts of the operator to provide protection during a hose or component failure. This shield(s) must be present and fully functional at all times whilst this item of plant is in operation.						
References: AS4024, ISO4413, AS2671						





HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
	HIGH 22	MEDIUM 15		
<b>Risk Treatments in Place: Quick Hitch Operation Alarm</b> This item of plant is fitted with a quick hitch with a fully functional audible alarm fitted to the machine is in the mode that allows for the controls to be operated to engage or disengage a		operator that the host		
This alarm must be fully functional at all times whilst this item of plant is in operation. References: AS13031				
POOR VISIBILITY, COLLISION	HIGH 22	MEDIUM 15		
<b>Risk Treatments in Place: Machine Lights</b> This item of plant is fitted with self contained lighting. All of these lights must be fully function operation in areas of reduced light. If any of these lights stop working the operation must ce operation can continue in the areas of reduced light.				
References: ISO20474-				
ENTANGLEMENT	HIGH 22	MEDIUM 15		
<b>Risk Treatments in Place: Engine Guards</b> The engine fan and alternator belts, pulleys and gears are guarded. These guards must be whilst this item of plant is in operation.	present and fully functional an	d serviceable at all times		
References: AS/NZS4024.1601	1			
INSTABILITY, CRUSHING, TIP OVER	HIGH 22	MEDIUM 15		
This item of plant is fitted with a level indicator. This device indicates the "levelness" of the r During operation operators must ensure the machine is within the manufacturers guidelines The rated capacity chart fitted for lifting operations has a maximum level angle which must r This level indicator must be present and fully functional at all times whilst this item of plant is <b>References:</b> AS1418.8	for levelness. never be exceeded during liftir	ng operations.		
1				
	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Handrails         All operator work platforms are either -         a) above 0.5m and below 2.0m from the ground or nearest platform and have three points of contact which can be constantly maintained by any person on the platform performing expected tasks or         b) are above 2.0m from the ground or nearest platform and have an approved guardrail which meets the following requirements:         1. All guardrails are at least 1.1m high         2. All guardrails have a mid rail         3. All sides and ends have a kick plate which is at least 100mm high.				
These work platforms and/or access points must have guardrails present that are fully functional and serviceable at all times whilst this item of plant is in operation.				
References: AS5327				
	HIGH 22	MEDIUM 15		
<b>Risk Treatments in Place: Beacon</b> This item of plant is fitted with a safety beacon. This beacon must meet the following criteria at all times whilst this item of plant fitted is in operation -				
<ul> <li>- Is visible up to 200m in all directions (allowing for intermittent obstruction from the plant structure whilst the plant is in operation)</li> <li>- Is fitted in the most appropriate location on machine to maximise visibility without risking continual damage</li> </ul>				
NOTE: more than one beacon may be fitted to meet these criteria.				
References: ISO20474-				





HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	
OPERATIONAL MALFUNCTION	HIGH 22	LOW 2	
Risk Treatments in Place: Plant Modification The plant is in original condition.		·	
References: ISO31000			
ENTRAPMENT	HIGH 21	MEDIUM 15	
<b>Risk Treatments in Place: Two Operator Exits</b> The operator cabin/work area on this item of plant has a minimum of two (2) possible exits. Whenever the item of plant is manned, whether during operation or maintenance activities. <b>References:</b> AS5327	These must be functional and	accessible at all times	
ENTRAPMENT	HIGH 21	MEDIUM 15	
<b>Risk Treatments in Place: Emergency Exits</b> The emergency exits for this item of plant meet the following requirements -			
<ol> <li>Clearly and legibly labelled</li> <li>Instructions for use are clear and legible and located adjacent the exit</li> <li>Any required tools required for use are available e.g. Emergency hammers</li> </ol>			
These exits must be legibly labelled and fully functional at all times whenever the item of pla activities.	nt is manned, whether during	operation or maintenance	
References: ISO31000	1	1	
POOR VISIBILITY, COLLISION	HIGH 21	MEDIUM 15	
<b>Risk Treatments in Place: Windscreen Wipers</b> The windscreen wipers and washers fitted to this item of plant must be fully functional at all	times.		
References: AS/NZS4024.1201	1	1	
ROPS FITTED CRUSHING	HIGH 21	MEDIUM 15	
<b>Risk Treatments in Place: ROPS</b> A Roll Over Protective Structure (ROPS) to ISO 3471, ISO 12117.1 or 2, AS 2294 or AS 4987 is fitted to this item of plant. A permanent label stating this standard must be attached to the structure at all times. This structure provides a safety envelope during a rollover. A warning label re: wearing of seat belts at all times whilst this item of plant is in operation and accordingly seat belts must be worn at all times during operation. <b>References:</b> AS2294, ISO3471			
CRUSHING	HIGH 21	LOW 5	
Risk Treatments in Place: FOPS Level II This item of plant is fitted with a level II Falling Objects Protective Structure (FOPS). This structure is designed to protect the operator from heavy falling objects (e.g. trees, rocks). Care should still be exercised when operating in an area with a risk of falling objects.			
References: AS2294, ISO3449, ISO10262			
CRUSHING	HIGH 21	MEDIUM 15	
Risk Treatments in Place: 1T Controlled Lowering Device         This item of plant is fitted with a controlled lowering device which is activated in the event of hydraulic failure. If this device is not fully functional then         lifting of freely suspended loads in excess of 1T must not occur until this controlled lowering device is repaired. The requirements of AS 1418.8 must         also be met prior to lifting freely suspended loads in excess of 1T.         Freely suspended loads regardless of weight must never be lifted over any personnel.         References:       ISO8643, AS1418.8			





	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
¢	INCORRECT OPERATION	HIGH 20	MEDIUM 14		
The controls control lever operation.	<b>Risk Treatments in Place: Intuitive Controls</b> The controls fitted to this item of plant are orientated so that the movement of the control is consistent with the action of the machine e.g. moving a control lever to the left results in the machine turning to the left. This design feature must be maintained at all times whilst this item of plant is in operation.				
References	s: AS/NZS4024.1906	-			
4	STRAINS	HIGH 19	LOW 5		
All controls in the execution	ments in Place: Controls Ergonomics including all levers, buttons, pedals, switches etc, are placed near the operator w in of the operator's normal duties. This applies for all persons within the 95th per s: AS/NZS4024.1901				
<b>₽</b>	INCORRECT OPERATION, SLIPPING	HIGH 17	LOW 6		
All controls in	ments in Place: Control Levers/Pedals/Buttons ncluding all levers, buttons, pedals, switches etc. must be kept non-slip and free s: AS/NZS4024.1901	from damage at all times.			
×	SLIPPING	MEDIUM 12	LOW 6		
Safe access from damage All personne 1. Always fac 2. Always ma 3. Never carr 4. Never jum	Risk Treatments in Place: Operator Work Area Access/Egress         Safe access and egress to the cabin/work area(s) must be maintained at all times whilst this item of plant is in operation. It must be non slip, free from damage, located at a height so as to not cause undue body stresses and strains with three points of contact available to personnel at all times.         All personnel must -       1. Always face the item of plant during access and egress.         2. Always maintain three points of contact during access and egress.       3. Never carry an object(s) in his/her hand(s) during access and egress.         4. Never jump off machine.       1. Never jump off machine.				
References	References: AS5327				
×	FALLING, SLIPPING	MEDIUM 12	LOW 6		
Risk Treatments in Place: Access/Egress Instruction Label         An instruction label is fitted adjacent access/egress areas to advise all personnel of the following -         1. Always face the item of plant during access and egress.         2. Always maintain three points of contact during access and egress.         3. Ensure the steps are clean.         4. Never jump off machine.         This label must be clear and legible at all times whilst this item of plant is in operation.         References:       ISO31000					
×	FALLING, SLIPPING, TRIPPING	MEDIUM 12	LOW 6		
<b>Risk Treatments in Place: Engine Bay Access</b> Safe access and egress to the engine bay/work area(s) must be maintained at all times whilst this item of plant is in operation. It must be non slip, free from damage, located at a height so as to not cause undue body stresses and strains with three points of contact available to personnel at all times.					
All personnel must - 1. Always face the item of plant during access and egress. 2. Always maintain three points of contact during access and egress. 3. Never carry an object(s) in his/her hand(s) during access and egress. 4. Never jump off machine. References: AS5327					



Serial Number Assessed By Date

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
BATTE E + COVE	ELECTRIC SHOCK, BURNS	MEDIUM 12	LOW 6		
All bat The co	Risk Treatments in Place: Battery Cover All batteries fitted to this item of plant are constrained to prevent displacement & fitted with a permanent sturdy cover which allows for ventilation. The constraint and cover must be present and fully functional and serviceable at all times whilst this item of plant is in operation. References: AS/NZS4024.1201				
Ttoror					
4	INCORRECT OPERATION, SLIPPING	MEDIUM 9	LOW 4		
	Treatments in Place: Work Area Floors k area floors are non-slip and free from damage & debris.				
Floor a use.	rea must remain non-slip and free from damage & debris, including rubbish, tools and	d other items, at all times while	st this item of plant is in		
Refer	ences: AS/NZS4024.1201, ISO20474-	1			
G	NON COMPLIANCE, STRAINS	MEDIUM 9	LOW 1		
The op	Freatments in Place: Operator Seat berator seat fitted to this item of plant must remain free from damage and tears, and be ences: AS/NZS4024.1401, ISO20474-	e permanently and securely fi	tted at all times.		
Kerer	EIICES. AO/NZO4024. 1401, 10020474-	Ì			
	HEAT STROKE, DEHYDRATION	MEDIUM 9	LOW 4		
Risk	Freatments in Place: Air Conditioning				
	em of plant is fitted with an air conditioned cabin. This air conditioned cabin helps cont				
	ovides shade from the sun. The air conditioner must be fully functional and serviceab ences: ISO31000	le at all times whilst this item of	of plant is in operation.		
Kelei		1			
R	BURNS	MEDIUM 9	LOW 5		
The er	<b>Risk Treatments in Place: Exhaust</b> The engine exhaust on this item of plant is fitted with a guard to prevent injury to any person and control the risk of initiating a fire. It must be present and fully functional and serviceable at all times whilst this item of plant is in operation.				
Refer	ences: AS/NZS4024.1201				
%	CURRENT OR PREVIOUS STRUCTURAL DAMAGE	CRITICAL 25	MEDIUM 15		
Regula	Freatments in Place: Structural Integrity ar checks for structural damage must be undertaken. Look for cracks in frames/chassi nents, etc.	s (current or repaired), bends	or damage to structural		
Refer	ences: ISO31000				
X	INCORRECT OPERATION	HIGH 22	MEDIUM 15		
Risk	Freatments in Place: Maintenance Manual	)			
The m	anufacturer's maintenance manual(s) has been supplied for this item of plant				
	These manual(s) must be available at all times to all users and maintenance staff of this item of plant. All users and maintenance staff must read and be familiar with these handbook(s) prior to maintaining or repairing this item of plant.				
	plete risk assessment/JSEA must be undertaken covering all inspection, maintenance t prior to use.	e, servicing and transportation	requirements of this piece		
A full assessment of the competence of people using the book(s) must also be undertaken					
Refer	ences: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations			





	HAZARD(S)	Prelim. Risk Rating	Residual Risk Ra
Ţ	STRIKING, BURNS	HIGH 22	MEDIUM 15
The hydrau that hoses and protec	tments in Place: Hydraulic Damage lic hoses to this item of plant are free from damage and protected against damage are free from damage and that protection is in place at all times whilst this item of tion system should be conducted regularly and documented as part of your plant	of plant is in operation. Inspec	
	CRUSHING	HIGH 22	MEDIUM 15
The Roll Ov operation.	tments in Place: ROPS Damage ver Protective Structure (ROPS) fitted to this item of plant must remain free from	damage at all times whilst this	s item of plant is in
Reference	es: AS2294, ISO3471	1	1
Ŷ	OPERATIONAL MALFUNCTION	HIGH 22	LOW 2
wheel hubs detected m	f plant must remain free from leaks at all times whilst in operation (this includes e s, steering and hydraulics). Development of a major leak will require this item of p ust be repaired within 1-14 days. es: ISO31000		
	OPERATIONAL MALFUNCTION	HIGH 21	MEDIUM 15
	tments in Place: Service Records d maintenance records are available for this item of plant.		
includes the	rds must continue to be managed and available at all times as part of your servic e undertaking of regular inspections of the item of plant with specific reference to d maintenance requirements).		
Reference	es: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations	
*	POOR VISIBILITY, COLLISION	HIGH 21	MEDIUM 15
	tments in Place: Windows & Screens cabin/work area safety glass windows and screens are kept clean and free from use.	cracks and other damage at a	all times whilst this iter
Reference	es: AS/NZS4024.1201, ISO20474-		
*	INSTABILITY	MEDIUM 9	LOW 4
Rick Troa	tments in Place: Tracks		
The tracks safety prog	and track components must be inspected as part of a "pre start" checklist. These ramme. es: ISO20474-	e inspections must be docume	nted as part of your pl

IMAGES

- No Images Available -

#### NOTES



MakeCaterpillarModel320TypeExcavator - Large (20 Tonne +)

Serial Number Assessed By Date

- No Notes Available -





MakeCaterpillarModel320TypeExcavator - Large (20 Tonne +)

Serial Number Assessed By Date

# Ideagen? RISK MANAGEMENT REPORT

TYPE	Excavator - Large (20 Tonne +)	Report Number	AHH 20250217-1344
MAKE	Caterpillar	Date	17-Feb-2025
MODEL	320	Created By	AHSH Service
SERIAL NUMBER	Ycp20067	Assessor	Mitchell Pennells
PLANT NUMBER	ahsh78	Assist. Assessor(s)	Mitchell Pennells
		Owner	Australian Hammer Supplies Hire Pty Ltd
		Assessment Purpose	Hire
		State	NSW

## **OPERATOR ACKNOWLEDGEMENT**

I the undersigned acknowledge that I have read and understand the risk management report described above. I also acknowledge that I have received a copy of this risk management report.

DATE	NAME	COMPANY/POSITION	SIGNATURE





Make Caterpillar Model 320

Excavator - Large (20 Tonne +)

Туре

Serial Number Assessed By Date