

RISK MANAGEMENT REPORT

TYPE	Excavator - Small
MAKE	Kubota
MODEL	U17-3
SERIAL NUMBER	44246
ENGINE NUMBER	4HA0486
Report Number	AHS 20170222-1411
Date	03-Feb-2017
Created By	Paul Rozier
Assessor	Stephen Manson
Assist. Assessor(s)	
Completed By	
Owner	Australian Hammer Supplies Pty Ltd
Assessment Purpose	Sale
State	NSW



TABLE OF CONTENTS

SECTION 1	IMPORTANT INFORMATION 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	RISK ANALYSIS, RISK EVALUATION & RISK TREATMENT 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
SECTION 4	RISK TREATMENTS REQUIRED Contains detailed information regarding the risk treatments to be implemented including hazard, risk rating, time frame, relevant standards & legislative references
SECTION 5	RISK TREATMENTS IN PLACE 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





SECTION 1 IMPORTANT INFORMATION

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This Risk Management Report has been prepared for -

(insert recipient name/company name)

This document has been prepared to cover the sale or transfer of this item of plant between the Company identified on the front cover and their named recipient. This report must not be used for any subsequent sale or transfer.

This document is provided to meet duty of care obligations as set out in relevant state and territory health and safety regulations for the supply of plant and the sale and transfer of plant.

The safety hazards associated with the operating and maintaining of this item of plant have been identified as far as practical by visual inspection. This item of plant is being sold in an "as-is" condition with known and unknown safety hazards. No physical testing has been conducted (eg. Wire rope tests, stress tests, structural/non-destructive tests, noise tests, vibration tests, brake tests, insulation tests etc.) unless stated otherwise in the notes.

This document is not intended to provide information on, nor warrant the mechanical, electrical or structural condition of this item of plant. Any information on standard features have been supplied through the manufacturer and should be used as a guide only until otherwise verified.

This item of plant should be further assessed, tested and inspected or dismantled as necessary to gauge any further hazards and /or risks relating to SPECIFIC WORKPLACE USE, which are currently unknown, in accordance with relevant standards, regulations and acts.

Under common law and relevant state and territory health and safety acts, regulations and codes of practice, there is a requirement for the plant owner, employer and operator to exercise a duty of care in the safe operation and maintenance of plant. Accordingly before this item of plant is supplied to, or used at any workplace it must be inspected to ensure it is in a fully operational, safe and serviceable condition and that operators and maintenance personnel are appropriately trained in the use & maintenance of this item of plant.

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

SECTION 2 MACHINE DETAILS

		1. Manufacturers specified noise level dBA	
S S		2. Ambient noise level dBA	
		3. Noise level - Operator position (high idle) dBA	
	- NOISE TEST RESULTS	4. Noise level - Operator position (low idle) dBA	
I W I	- NOISE TEST RESULTS	5. Noise level LHS dBA @ m (high idle)	
		6. Noise level Front dBA @ m (high idle)	
44		7. Noise level RHS dBA @ m (high idle)	
I I I		8. Noise level Rear dBA @ m (high idle)	
풍	BUCKET	Standard bucket capacity, SAE rated (m3)	
	BUCKET	Standard bucket width (mm)	
M		Dig depth (mm)	2310
		Dig depth to cut 2.44 m level bottom (mm)	
	DIMENSIONS/WEIGHTS	Dump height (mm)	2440
		Ground clearance (mm)	150
		Max depth of vertical wall (mm)	1910





Make Kubota Model U17-3 Type Excavator - Small Serial Number Assessed By Date

	Operating weight (kg)	1730
	Reach @ ground level (mm)	3900
	Tailswing radius (mm)	620
	Transport height (mm)	2340
	Transport length (mm)	3545
	Width (mm)	1240
	Engine Displacement (Ltr)	898
	Engine Hours	2
	Engine Make & Model	Kubota D902-E3
ENGINE	Engine Number	4FF1408
LIVOITE	Engine Power (kW@rpm)	12.7kW@2300rpm
	Fuel Tank Capacity (Litres)	
	Number of Cylinders	3
EXTRAC		
EXTRAS	Spare spool for attachments? Yes/No	Yes
	Quick Hitch Make	ELITE ATTACHMENTS
HITCH	Quick Hitch Model	Double Locking
	Quick Hitch Serial No.	
	Flow of main pumps (lit/min)	17.3x2 / 10.4x1
HYDRAULICS	Pump types	
	Relief valve pressure, main pumps (bar)	
PLANT CLASSIFICATIONS	Class	One
FEANT CEASSIFICATIONS	Year	2017
	FOPS Compliance No.	ISO 10262 LEVEL 1
SAFETY STRUCTURES	FOPS Serial No.	
SAFETT STRUCTURES	ROPS Compliance No.	ISO 3471
	ROPS Serial No.	
TRACKS	Track length on ground (mm)	1230
IRACKS	Track pad width (mm)	230
TRANSMISSION	Speed (km/h)	4.1
		870
WORK CAPABILITIES	Arm breakout (kgf)	070
	Arm breakout (kgf) Bucket breakout (kgf)	1550
	Bucket breakout (kgf)	
	Bucket breakout (kgf) Gradeability (%)	
	Bucket breakout (kgf) Gradeability (%) Bucket - 1000mm	
EXTRAC	Bucket breakout (kgf) Gradeability (%) Bucket - 1000mm Bucket - 300mm	
EXTRAS	Bucket breakout (kgf) Gradeability (%) Bucket - 1000mm Bucket - 300mm Bucket - 450mm	
EXTRAS	Bucket breakout (kgf) Gradeability (%) Bucket - 1000mm Bucket - 300mm Bucket - 450mm FOPS	
EXTRAS	Bucket breakout (kgf) Gradeability (%) Bucket - 1000mm Bucket - 300mm Bucket - 450mm FOPS Front grader blade	





Serial Number Assessed By Date

SECTION 3 RISK ANALYSIS / RISK EVALUATION

RIS	RISK ANALYSIS							
CONSEQUENCE								
		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		
Likeli	A. Almost certain to occur in most circumstances	MEDIUM 8	HIGH 16	HIGH 18	CRITICAL 23	CRITICAL 25		
•	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		

LUATION	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 treatment table below. Permanent risk treatments must be implemented within three months.

RISKTREATMENT

MEN		st appropriate risk treatment option involves balancing the costs and efforts of implementation against the benefits ard to legal, regulatory and other requirements. (source AS/NZS ISO 31000-2009)
Eliminate Eliminate the risk source. Substitute Provide an alternative that is capable of performing the same task which is safer.		Eliminate the risk source.
		Provide an alternative that is capable of performing the same task which is safer.
	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.





MakeKubotaModelU17-3TypeExcavator - Small

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.	NOMINATED OPERATOR ONLY	INCORRECT OPERATION	CRITICAL 24	MEDIUM 15	Immediate	3-Feb-17		
OPERATI	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 is not a competent/licensed person available for operation of this item of plant then only persons who are supervised by a competent/licensed person can operate this item of plant.							
	Legislation: State Health & Safety Legislation & Regulation							
	References: Work 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			
ERY	CRUSHING	HIGH 22	MEDIUM 15			
DELIVERY	Risk Treatments in Place: SWMS Loading/Unloading 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-					
	CRUSHING	HIGH 22	MEDIUM 15			
	Risk Treatments in Place: SWMS Load Restraint Ensure that all operators follow the approved SWMS/SOP when restraining this machine for transport. References: Work Health & Safety Act & Regulations-					
	References: Work Health & Safety Act & Regulations-	·				
NOI	References: Work Health & Safety Act & Regulations- INCORRECT OPERATION	HIGH 22	MEDIUM 15			
ATION		HIGH 22	MEDIUM 15			
ERATION		HIGH 22	MEDIUM 15			
OPERATION	INCORRECT OPERATION Risk Treatments in Place: Operation Handbook					
٥.	INCORRECT OPERATION 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 staft	f. All potential operators must	read and be familiar with			
٥.	INCORRECT OPERATION 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 staf this handbook prior to operating.	f. All potential operators must	read and be familiar with			





Make Kubota Model U17-3 Type Excavator - Small Serial Number Assessed By Date

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating				
	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Pre-op Checklist Excavator						
A pre-operation checklist is available for this Excavator. This checklist must be completed	by all operators prior to opera	ting this Excavator.				
References: Work Health & Safety Act & Regulations-						
INCORRECT OPERATION HIGH 22 MEDIUM 15						
Risk Treatments in Place: SOP Excavator	1					
Safe Operation Procedures are available for this Excavator. The information in the Safe Operating this Excavator.	peration Procedures must be	followed at all times whilst				
References: Work Health & Safety Act & Regulations-						
	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Control Labels All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to theil be maintained in a clean and serviceable condition at all times.	r purpose and method of ope	ration. These labels must				
References: AS/NZS4024.1905						
FALLING, CRUSHING	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 passenge label must be clear and legible at all times whilst this item of plant is in operation.	ers. Passengers must not be o	carried at anytime. This				
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, legible at all times.	drill holes and welds) must b	e present, clean and				
References: ISO3471	1	1				
	HIGH 22	MEDIUM 15				
Risk Treatments in Place: ROPS seat belt label The advisory label stating that a "ROPS is fitted seatbelts must be worn" must be followed must be present, clean and legible at all times. References: AS2294, ISO3471	at all times whilst operating the	nis item of plant. This label				
References. A32294, 1503471						
	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 approach distances fitted. These distances must be adhered to strictly. These labels and tables must be present, clear and legible at all times.						
Spotters are required when working within 5 metres of the minimum approach distance of a	any live electrical apparatus.					
Any encroach within the minimum approach distances must only occur if the following provisions have been met - 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.						
References: ISO31000						





Serial Number Assessed By Date

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating				
	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Dial Before You Dig (AUS) This item of plant is fitted with a clear hazard warning label re: underground services and advice to "Dial 1100 Before You Dig"to the operator work area. This advice must be adhered to strictly. Digging into an electricity cable or gas pipe can cause serious injury or death. Damaging a pipe or cable may also lead to isolating a community from emergency services such as fire, police or ambulance. This label must be present, clear and legible at all times.						
References: ISO31000						
	HIGH 22	MEDIUM 15				
Risk Treatments in Place: Phone Use label This item of plant is fitted with an instruction label advising that mobile phones must not be operators must not use a mobile phone at any time whilst operating machine. If phone use configuration in a safe position prior to phone use. Operators MUST adhere to this advice This label must be clear and legible at all times whilst this item of plant is in operation.	is necessary then operator m	• •				
References: AS1319-, ISO31000						
POISONING, EXPLOSION, BURNS	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 in These must be present, clear and legible at all times. (this includes radiator, hydraulic and		ontrols re: the contents.				
References: Work Health & Safety Act & Regulations-						
	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 pres References: ISO20474-	sent, clear and legible at all tir	nes.				
INCORRECT OPERATION, CRUSHING	HIGH 22	HIGH 21				
Risk Treatments in Place: Boom Rated Capacity Label This item of plant has a rated capacity label fitted to each side of the boom. Ensure that the item of plant is in operation. Operators must not exceed this rated capacity at any time dur References: AS1418.8		le at all times whilst this				
INCORRECT OPERATION, CRUSHING	HIGH 21	MEDIUM 15				
Risk Treatments in Place: Quick Hitch Information This hydraulic quick hitch has the following information marked upon it -						
 A unique identification mark (serial number) The manufacturer's name and model clearly and durably marked upon it The maximum rated capacity clearly and durably marked upon it The mass of the hitch clearly and durably marked upon it The lift point capacity (kg) clearly and durably marked upon it 						
This information must be considered by all operators when assessing the suitability of the this information could lead to serious injury or death. References: AS4772	hitch for any task. Failure to c	onsider and or comply with				





	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating				
00	BURNS, ENTANGLEMENT, SHEARING	HIGH 19	MEDIUM 13				
	Risk Treatments in Place: Engine Guard Label						
-	an and alternator belts, pulleys and gears are guarded. These guards have cle	• •	•				
-	ds while engine is running. These labels must be present, legible and easily so	een at all times whilst this iter	m of plant is in operation.				
References	References: AS1319- , AS/NZS4024.1201						
SWL	CRUSHING, POOR SIGNAGE	HIGH 19	MEDIUM 13				
	nents in Place: Boom Lifting Point Table						
	plant has a lifting point fitted to the boom, accordingly a load/distance table is p						
-	t all times. This item of plant must comply with the relevant parts of AS 1418 a	at all times. All operators mus	t be appropriately trained				
References	em of plant and licenced where necessary.						
References	. AS1418.8						
志	CRUSHING, PINCHING	MEDIUM 14	MEDIUM 13				
Risk Treatn	nents in Place: Swing Boom Crush Label						
	plant has clear hazard warning labels re: pinch point/crush zone, keep clear, th		of the boom swing/pivot				
	must be present, clear and legible at all times whilst this item of plant is in ope	eration.					
References	: AS1319- , AS/NZS4024.1201		1				
V	FIRE	MEDIUM 13	LOW 4				
Risk Treatn	nents in Place: Fire Extinguisher		1				
This item of p	plant is fitted with an approved and maintained fire extinguisher. Fire extinguis	her(s) must be present and fu	Illy functional at all times.				
They must be	e readily accessible to the operator. Regular inspections must also be carried	out in accordance with the ma	anufacturer's requirements				
and AS 1851							
References	:: AS/NZS1841, AS1851						
	COLLISION, CRUSHING	MEDIUM 12	LOW 6				
Risk Treatn	nents in Place: Warning Device (horn)		1				
This item of p	plant is fitted with a fully functional audible warning device such as a horn. This	s must be easily accessed by	the operator, and easily				
identifiable by	y nearby pedestrians.						
	should ensure the warning devices are functional at the start of each shift, by						
	cklists. Warning devices should operate automatically where appropriate (eg r : ISO7731, ISO9533	eversing)					
References	. 1307731, 1309333						
	BURNS	MEDIUM 12	MEDIUM 12				
Risk Treatn	nents in Place: Open Cabin						
Dust, exhaus	t fumes, chemical fumes, sunstroke and sunburn pose serious risk to the ope	rator both short and long term	n. The appropriate controls				
	e hazards must always be available whilst this item of plant is in operation. If t		creen, dust masks etc are				
	then operation of this item of plant must cease until these are made available	to all operators.					
References	:: ISO31000		1				
₽.	CRUSHING	MEDIUM 12	LOW 6				
Risk Treatn	nents in Place: Front Grader Blade Label						
	de on this item of plant is fitted with a hazard warning label re: crush zone, kee ble at all times.	ep clear. This label must be p	resent and fully functional				
References	: ISO20474- , AS1319-						





		HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
		COLLISION, STRIKING, CRUSHING	MEDIUM 12	LOW 6		
	Risk Treatments in Place: Tail Swing Label 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 function and serviceable at all times. References: ISO20474-					
	11010101000					
NCE		CRUSHING	CRITICAL 24	LOW 1		
COMPLIANC		Risk Treatments in Place: Closed Eye Lifting Point The lifting point fitted to this item of plant is the closed eye type. Hooks with or with out latching devices must not be used as a lifting point at any time.				
ō	References	: AS1418.8				
ESIGN C	N	STRIKING, ENTANGLEMENT, COLLISION, CRUSHING	HIGH 22	MEDIUM 15		
DES	Risk Treatments in Place: Neutral Start This item of plant has neutral start control in place. It must be fully functional and serviceable at all times whilst this item of plant is in operation. References: AS4024.1603					
	¢.	CRUSHING	HIGH 22	MEDIUM 15		
	Risk Treatments in Place: Quick Hitch Controls The quick hitch operation control 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: AS/NZS4024.1906, AS4772					
		CRUSHING	HIGH 22	MEDIUM 15		
	Risk Treatm This item of p whilst this iter References	rdily attached at all times				
		CRUSHING	HIGH 22	MEDIUM 15		
	Risk Treatments in Place: Quick Hitch Operation Alarm This item of plant is fitted with a quick hitch with a fully functional audible alarm fitted to the operator work area to alert the operator that the host machine is in the mode that allows for the controls to be operated to engage or disengage attachments. This alarm must be fully functional at all times whilst this item of plant is in operation.					
	References: AS4772, ISO7731					
		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					





Serial Number Assessed By Date

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating			
CRUSHING	HIGH 22	MEDIUM 15			
	Risk Treatments in Place: Quick Hitch - Fully Automatic This item of plant is fitted with a fully automatic hydraulic (quick) hitch (i.e. has hydraulically operated latch as primary retention device and remotely controlled safety device as back up) between the excavator arm and attachments.				
This safety device must meet all of the following criteria at all times prior and during operate	ion -				
 Is a mechanical device i.e. not just an indicating system/device Must be intentionally disengaged to remove attachments Is not the primary source of retention of attachments Has means of verifying engagement of the primary retention device from the operator position and Has means of verifying engagement of safety system from operator position 					
If any of these criteria are not met at any time then operation must cease. References: AS4772					
ENTANGLEMENT, SHEARING, CRUSHING, BURNS, PINCHING	HIGH 22	MEDIUM 15			
Risk Treatments in Place: Safe Operator Location This machine is designed so that the operator is isolated from all danger zones whilst at the whilst this item of plant is in operation. References: AS/NZS4024.1201	e operator position. This cond	dition must exist at all times			
	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 wear immediate action must be taken to control the risk arising from this wear. These inspec		-			
Hydraulic fluid at high pressure can penetrate the skin, never use any part of your body to advice immediately. Always use a piece of cardboard or similar to check for suspected leaf		tes the skin seek medical			
Hydraulic pressure can be stored and is a hazard. Before disconnection or connection of h	ydraulic hoses complete the	following steps -			
 Stop engine Keep all bystanders clear of the work area Refer to operators manual as to methods to release pressure Wait 5 minutes 					
References: AS2671, AS4024					
COLLISION, POOR VISIBILITY	HIGH 22	MEDIUM 15			
Risk Treatments in Place: Machine Lights This item of plant is fitted with self contained lighting. All of these lights must be fully functional and serviceable whilst this item of plant is in operation in areas of reduced light. If any of these lights stop working the operation must cease immediately and the faulty light be repaired before operation can continue in the areas of reduced light.					
References: ISO20474-					
ENTANGLEMENT	HIGH 22	MEDIUM 15			
Risk Treatments in Place: Engine Guards The engine fan and alternator belts, pulleys and gears are guarded. These guards must be present and fully functional and serviceable at all times whilst this item of plant is in operation.					
References: AS/NZS4024.1601					





HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Beacon This item of plant is fitted with a safety beacon. This beacon must meet the following criter	ia at all times whilst this item (of plant fitted is in operation		
 - Is visible up to 200m in all directions (allowing for intermittent obstruction from the plant s - Is fitted in the most appropriate location on machine to maximise visibility without risking 	•	operation)		
NOTE: more than one beacon may be fitted to meet these criteria. References: ISO20474-				
	HIGH 22	LOW 2		
Risk Treatments in Place: Plant Modification				
The plant is in original condition.				
References: ISO31000				
ENTRAPMENT	HIGH 21	MEDIUM 15		
Risk Treatments in Place: Two Operator Exits 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. References: AS3868		d accessible at all times		
ROPS FITTED CRUSHING	HIGH 21	MEDIUM 15		
Risk Treatments in Place: ROPS 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.				
References: AS2294, ISO3471, AS4987	1			
	HIGH 21	LOW 5		
Risk Treatments in Place: FOPS General This item of plant is fitted with a Level I Falling Objects Protective Structure (FOPS). This structure is designed to protect the operator from small falling objects (e.g. bricks, small concrete blocks, hand tools)				
Before operating this item of plant a task based risk assessment must be conducted to determine the level of FOPS required. Level I - withstands 1,365 joules (e.g. 20kgs @ 7m drop, 70kgs @ 2m drop) - operations such as highway maintenance, landscaping and other construction site services Level II - withstands 11,600 joules (e.g. 200kgs @ 6m drop, 394kgs @ 3m drop) - operations such as site clearing, overhead demolition or forestry				
This task risk assessment must be undertaken before each operation, in particular when the item of plant is moved to a new location, even if it is within the same site.				
References: AS2294, ISO10262, ISO3449				
	HIGH 20	MEDIUM 14		
Risk Treatments in Place: Intuitive Controls				
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: AS/NZS4024.1906				





	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	
Å	STRAINS	HIGH 19	LOW 5	
	nents in Place: Controls Ergonomics			
	ncluding all levers, buttons, pedals, switches etc, are placed near the operator			
	n of the operator's normal duties. This applies for all persons within the 95th p	ercentile of the normal popula	tion distribution.	
References	: AS/NZS4024.1901			
₹ T	STRIKING, BURNS	HIGH 19	LOW 5	
Risk Treat	nents in Place: Hydraulic Hose Failure Shield			
	plant is fitted with a sturdy, permanent shield(s) between the hydraulic hoses a	• • • •		
-	e or component failure. This shield(s) must be present and fully functional at a	Il times whilst this item of plar	it is in operation.	
References	S: AS2671, AS4024, ISO4413			
*	SLIPPING, INCORRECT OPERATION	HIGH 17	LOW 6	
	nents in Place: Control Levers/Pedals/Buttons			
	ncluding all levers, buttons, pedals, switches etc. must be kept non-slip and fre	ee from damage at all times.		
References	: AS/NZS4024.1901			
×	SLIPPING	MEDIUM 12	LOW 6	
Risk Treatr	nents in Place: Operator Work Area Access/Egress			
Safe access	and egress to the cabin/work area(s) must be maintained at all times whilst th	is item of plant is in operation	. It must be non slip, free	
-	e, located at a height so as to not cause undue body stresses and strains with	three points of contact availa	ble to personnel at all	
times.				
All personnel	muet			
1 · ·	the item of plant during access and egress.			
	aintain three points of contact during access and egress.			
3. Never carr	y an object(s) in his/her hand(s) during access and egress.			
4. Never jum	p off machine.			
References	: AS3868			
×	SLIPPING, FALLING	MEDIUM 12	LOW 6	
Risk Treatr	nents in Place: Access/Egress Instruction Label			
An instruction	n label is fitted adjacent access/egress areas to advise all personnel of the foll	lowing -		
1. Always face the item of plant during access and egress.				
2. Always maintain three points of contact during access and egress.				
 Ensure the steps are clean. Never jump off machine. 				
4. Never juli	p on machine.			
This label mu	ust be clear and legible at all times whilst this item of plant is in operation.			
References: ISO31000				
BATTERY COVER	ELECTRIC SHOCK, BURNS	MEDIUM 12	LOW 6	
	nonto in Diagon Dattant Oa			
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			
References: AS/NZS4024.1201				





	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating				
	SLIPPING, INCORRECT OPERATION	MEDIUM 9	LOW 4				
	Risk Treatments in Place: Operator Floor All work area floors are non-slip and free from damage & debris.						
	Floor area must remain non-slip and free from damage & debris, including rubbish, tools and other items, at all times whilst this item of plant is in use.						
	References: AS/NZS4024.1201, ISO20474-	References: AS/NZS4024.1201, ISO20474-					
		MEDIUM 9	LOW 1				
	Risk Treatments in Place: Operator Seat The operator seat fitted to this item of plant must remain free from damage and tears, and be permanently and securely fitted at all times.						
	References: AS/NZS4024.1401 , ISO20474-						
	BURNS	MEDIUM 9	LOW 5				
	present and fully functional and serviceable at all times whilst this item of plant is in operat	s 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 I and serviceable at all times whilst this item of plant is in operation.					
	References: AS/NZS4024.1201						
NCE	CURRENT OR PREVIOUS STRUCTURAL DAMAGE	CRITICAL 25	MEDIUM 15				
MAINTENANCE	Risk Treatments in Place: Structural Integrity Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc. References: ISO31000						
MAI		HIGH 22	MEDIUM 15				
	Risk Treatments in Place: Maintenance Manual The manufacturer'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 ite and be familiar with these handbook(s) prior to maintaining or repairing this item of plant. A complete risk assessment/JSEA must be undertaken covering all inspection, maintenance piece of plant prior to use.						
	A full assessment of the competence of people using the book(s) must also be undertaken						
	References: Work Health & Safety Act & Regulations-						
		HIGH 22	MEDIUM 15				
	Risk Treatments in Place: ROPS Damage The Roll Over Protective Structure (ROPS) fitted to this item of plant must remain free from damage at all times whilst this item of plant is in operation.						
	References: AS2294, ISO3471						
		HIGH 22	MEDIUM 15				
Risk Treatments in Place: Hydraulic Damage The hydraulic hoses to this item of plant are free from damage and protected against damage arising from contact with the plan that hoses are free from damage and that protection is in place at all times whilst this item of plant is in operation. Inspection of hoses and protection system should be conducted regularly and documented as part of your plant safety programme. References: AS2671, AS4024, ISO4413							





Serial Number Assessed By Date

HAZARD(S)	Prelim. Risk Rating	Residual Risk Ra
OPERATIONAL MALFUNCTION	HIGH 22	LOW 2
Risk Treatments in Place: Major Fluid Leaks		
This item of plant must remain free from leaks at all times whilst in operation	tion (this includes engine, transmission, cool	ng system, air, fuel, driv
line, wheel hubs, steering and hydraulics). Development of a major leak w	will require this item of plant to be stood-dow	n until repaired. Minor le
detected must be repaired within 1-14 days.		
References: ISO31000		
OPERATIONAL MALFUNCTION	HIGH 21	MEDIUM 15
Risk Treatments in Place: Service Records		
Risk Treatments in Place: Service Records Service and maintenance records are available for this item of plant. These records must continue to be maintained and stored in a secure are	ea as part of your plant safety management	programme. This progra
Service and maintenance records are available for this item of plant. These records must continue to be maintained and stored in a secure are includes the undertaking of regular inspections concerning the general co levels and wear and tear on critical items such as brakes and steering, ef	ondition of the item of plant including (but not tc. All OEM prescribed, scheduled and non s	limited to) tyre condition
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IMAGES

- No Images Available -

NOTES

- No Notes Available -







RISK MANAGEMENT REPORT

ТҮРЕ	Excavator - Small	Report Number	AHS 20170222-1411
MAKE	Kubota	Date	03-Feb-2017
MODEL	U17-3	Created By	Paul Rozier
SERIAL NUMBER	44246	Assessor	Stephen Manson
ENGINE NUMBER	4HA0486	Assist. Assessor(s)	
		Owner	Australian Hammer Supplies Pty Ltd
		Assessment Purpose	Sale
		State	NSW

PURCHASER ACKNOWLEDGEMENT

I the undersigned acknowledge that I have read and understand the risk management report described above. I also acknowledge that I have recieved a copy of this risk management report. I also acknowledge that I am authorised to sign on behalf of the purchaser.

Name		
Company Name		
Position		
Signature		
Date		

The manufacturer's operational & maintenance handbooks have been supplied, (circle one) YES NO (initial) _____

Please transfer this assessment to my Plant Assessor membership as a (circle one) HIRE / PLANT IN USE assessment.

My Plant Assessor email is _____





Make _{Kubota} Model _{U17-3} Type _{Excavator} - Small Serial Number Assessed By Date