

RISK MANAGEMENT REPORT

TYPE Excavator - Small

MAKE Kubota

MODEL U25-3

SERIAL NUMBER 52238

ENGINE NUMBER 1HC1292



Report Number	AHS 20170619-1540
Date	19-Jun-2017
Created By	Paul Rozier
Assessor	Paul Rozier
Assist. Assessor(s)	
Completed By	Paul Rozier
Owner	Australian Hammer Supplies Pty Ltd
Assessment Purpose	Sale
State	NSW

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SECTION 1	IMPORTANT INFORMATION
SECTION I	Contains information outlining

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

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

RISK TREATMENTS REQUIRED

Contains detailed information regarding the risk treatments to be implemented including hazard, risk rating, time frame, relevant standards & legislative references

RISK TREATMENTS IN PLACE

Contains detailed information regarding the risk treatments in place including hazard, risk rating, relevant standards & legislative references

IMAGES AND NOTES

Contains images & any relevant information entered by the assessor



SECTION 3

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SECTION 1 IMPORTANT INFORMATION

This report generated by Plant Assessor™ © Online Safety Systems on Monday, 19 Jun 2017 3:43 PM

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 1		1, Manufacturers specified noise level dBA	
TAILS			
		2. Ambient noise level dBA	
		3. Noise level - Operator position (high idle) dBA	
	- NOISE TEST RESULTS	Noise level - Operator position (low idle) dBA	
H H	- NOISE (ES) RESULTS	5. Noise level LHS dBA @ m (high idle)	
2000		6. Noise level Front dBA @ m (high idle)	
븿		7. Noise level RHS dBA @ m (high idle)	
		8. Noise level Rear dBA @ m (high ldle)	
其一	BUCKET	Standard bucket capacity, SAE rated (m3)	
		Standard bucket width (mm)	
MAC	CAPACITIES	Fuel Tank Capacity (Litres)	41
~		Hydraulic Oil Tank Capacity (Litres)	U.
/ [Dig depth (mm)	2810
- 12	DIMENSIONS/WEIGHTS	Dig depth to cut 2.44 m level bottom (mm)	
00		Dump height (mm)	3210



r 		
	Ground clearance (mm)	
	Max depth of vertical wall (mm)	
	Operating weight (kg)	
	Reach @ ground level (mm)	
1	Tailswing radius (mm)	
	Transport height (mm)	
	Transport length (mm)	
	Width (mm)	
	Engine Displacement (Ltr)	1.1
	Engine Hours	
ENGINE	Engine Make & Model	Kubota D1105-E3
ENGINE	Engine Number	
1	Engine Power (kW@rpm)	15.6kW@2400rpm
	Number of Cylinders	
EXTRAS	Spare spool for attachments? Yes/No	
	Quick Hitch Make	
HITCH	Quick Hitch Model	
	Quick Hitch Serial No.	
	Flow of main pumps (lit/mln)	
HYDRAULICS	Pump types	
	Relief valve pressure, main pumps (bar)	
DI ANT OL ACCIFICATIONS	Class	<u> </u>
PLANT CLASSIFICATIONS	Year	
	FOPS Compliance No.	
0.4.5577.055110511050	FOPS Serial No.	
SAFETY STRUCTURES	ROPS Compliance No.	
	ROPS Serial No.	
TD 4 01/0	Track length on ground (mm)	
TRACKS	Track pad width (mm)	
TRANSMISSION	Speed (km/h)	
	Arm breakout (kgf)	1245
WORK CAPABILITIES	Bucket breakout (kgf)	2320
THE STATE OF THE S	Gradeability (%)	
	Bucket - 450mm	
EXTRAS		
	Ripper	1
EXTRAS	Bucket - 300mm Bucket - 450mm Bucket - 600mm Bucket - Mud - 1200mm FOPS Front grader blade Hammer Plping Hitch - Quick	





SECTION 3 RISK ANALYSIS / RISK EVALUATION

CONSEQUENCE among a management of the contract						
The state of the s	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	
Almost certain to occur in most circumstances	MEDIUM 8	HIGH 16	HIGH 18	CRITICAL 23	CRITICAL 25	
6. 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	
O. 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	

MOTAN	CRITICAL	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below.
REK EVAL	HIGH	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.

Selecting the mo derived, with reg	st appropriate risk treatment option involves balancing the costs and efforts of implementation against the benefits and to legal, regulatory and other requirements. (SOUTHE ASINTS ISO 310002003)
Eliminate	Eliminate the risk source.
Substitute	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.



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	Residual Risk	Time	Due Date	Date	Initial
nazard(3)	Rating	Rating	Frame		Rectified	Initial

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
	CRUSHING	HIGH 22	MEDIUM 15
	eatments in Place: SWMS Loading/Unloading nat all operators follow approved SWMS/SOP when loading	and unloading this machine to and from a flat top	truck or trailer, low loader
Referen	ces: Work Health & Safety Act & Regulations-		- Annana de Calabra de
	CRUSHING	HIGH 22	MEDIUM 15
Ensure th	eatments in Place: SWMS Load Restraint nat all operators follow the approved SWMS/SOP when res ces: Work Health & Safety Act & Regulations-	training this machine for transport	
	INCORRECT OPERATION	CRITICAL 24	MEDIUM 15
i minus G			
Risk Tre Only pers	eatments in Place: Operator Competency sons who are qualified, trained and experienced and/or hold nt/licensed person available for operation of this item of plan his item of plant.	·	•
Risk Tre Only pers competer operate the	eatments in Place: Operator Competency sons who are qualified, trained and experienced and/or hold nt/licensed person available for operation of this item of pla	·	•
Risk Tre Only pers competer operate the	eatments in Place: Operator Competency sons who are qualified, trained and experienced and/or hole nt/licensed person available for operation of this item of plan his item of plant.	·	•
Risk Tre Only pers competer operate th Referen Risk Tre This item the attach	eatments in Place: Operator Competency sons who are qualified, trained and experienced and/or hole nt/licensed person available for operation of this item of plan his item of plant. ces: Work Health & Safety Act & Regulations-	cRITICAL 24 ag Risk December 31st 2015. This type of hitch allows for	MEDIUM 15

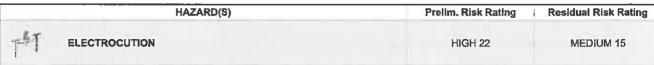




HAZARO(S)	Prelim. Risk Rating	Residual Risk Rating
INCORRECT OPERATION	HIGH 22	MEDIUM 15
Risk Treatments in Place: Operation Handbook		
he manufacturer's operation handbook has been supplied for this item of	f plant.	
This handbook must be available at all times to all potential operators and his handbook prior to operating.		
A complete risk assessment/Job Safety Analysis must be undertaken cove of plant, SWMS should be produced for specific tasks associated with use		ts associated with this iten
References: Work Health & Safety Act & Regulations-		
INCORRECT OPERATION	HIGH 22	MEDIUM 15
Risk Treatments in Place: Pre-op Checklist Excavator A pre-operation checklist is available for this Excavator. This checklist mus	st be completed by all operators prior to opera	ating this Excavator.
References: Work Health & Safety Act & Regulations-		
INCORRECT OPERATION	HIGH 22	MEDIUM 15
Risk Treatments in Place: SOP Excavator Safe Operation Procedures are available for this Excavator. The information operating this Excavator.	on in the Safe Operation Procedures must be	followed at all times whils
References: Work Health & Safety Act & Regulations-	and the second s	
INCORRECT OPERATION	HIGH 22	MEDIUM 15
Risk Treatments in Place: Control Labels All controls including all levers, buttons, pedals, switches etc. are clearly libe maintained in a clean and serviceable condition at all times.	abelied as to their purpose and method of op-	eration. 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 nezard warning label re: Operator o iabel must be clear and legible at all times whilst this item of plant is in op Legislation: State Health & Safety Legislation & Regulation References: AS1319-		carried at anytime. This
<i>b</i>		2 alian inggar ing a na a na
CRUSHING	HIGH 22	MED!UM 15
Risk Treatments in Place: ROPS Label The warning label stating that the ROPS must not be damaged at any time legible at all times.	te (including cuts, drill holes and welds) must	be present, clean and
References: ISO3471		
CRUSHING	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" a must be present, clean and legible at all times.	must be followed at all times whilst operating	this item of plant. This labo







Risk Treatments in Place: Electrical Approach Distances

This item of plant has a hazard warning label relieverhead 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 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



EXPLOSION, ELECTROCUTION

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



COLLISION

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 used whilst operating this machine. Accordingly all operators must not use a mobile phone at any time whilst operating machine. If phone use is necessary then operator must place machine in park configuration in a safe position prior to phone use. Operators MUST adhere to this advice at all times.

This label must be clear and legible at all times whilst this item of plant is in operation.

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 if appropriate any necessary controls re: the contents. These must be present, clear and legible at all times. (this includes radiator, hydraulic and petrol/diesel tanks)

References: Work Health & Safety Act & Regulations-



COLLISION

HIGH 22

MEDIUM 15

Risk Treatments in Place: Left Hand Drive Label

This item of plant has a hazard warning label relieft hand drive, at the rear, it must be present, clear and legible at all times

References: ISO20474-



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 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: AS1418.8





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Risk Treatments in Place: Quick Hitch Information

This hydraulic quick hitch has the following information marked upon it -

- 1. A unique identification mark (serial number)
- 2. The manufacturer's name and model clearly and durably marked upon it
- 3. The maximum rated capacity clearly and durably marked upon it
- 4. The mass of the hitch clearly and durably marked upon it
- 5. 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 hitch for any task. Failure to consider and or comply with this information could lead to senous injury or death.

References: AS4772



BURNS, ENTANGLEMENT, SHEARING

H!GH 19

MEDIUM 13

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: AS1319-, AS/NZS4024.1201



CRUSHING, POOR SIGNAGE

HIGH 19

MEDIUM 13

Risk Treatments in Place: Boom Lifting Point Table

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 fegible 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: AS1418.8



CRUSHING, PINCHING

MEDIUM 14

MEDIUM 13

Risk Treatments in Place: Swing Boom Crush Label

This item of plant has clear hazard warning labels re; pinch point/crush zone, keep clear, that are attached to each side of the boom swing/pivot point. These must be present, clear and legible at all times whilst this item of plant is in operation.

References: AS1319- AS/NZS4024.1201



FIRE

MEDIUM 13

LOW 4

Risk Treatments in Place: Fire Extinguisher

This item of plant is fitted with an approved and maintained fire extinguisher. Fire extinguisher(s) must be present and fully functional at all times. They must be readily accessible to the operator. Regular inspections must also be carried out in accordance with the manufacturer's requirements and AS 1851 – 1995.

References: AS/NZS1841, AS1851



COLLISION, CRUSHING

MEDIUM 12

LOW 6

Risk Treatments in Place: Warning Device (horn)

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.

All operators should ensure the warning devices are functional at the start of each shift, by completing pre-start checklists. Warning devices should operate automatically where appropriate (eg reversing)

References: ISO7731, ISO9533





Make Model

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HAZARD(S)

Prelim. Risk Rating

Residual Risk Rating

BURNS

MEDIUM 12

MEDIUM 12

Risk Treatments in Place: Open Cabin

Dust, exhaust fumes, chemical fumes, sunstroke and sunburn pose serious risk to the operator both short and long term. The appropriate controls

Dust, exhaust fumes, chemical fumes, sunstroke and sunburn pose serious risk to the operator both short and long term. The appropriate controls for all of these hazards must always be available whilst this item of plant is in operation. If these controls e.g. hats, sunscreen, dust masks etc are not available then operation of this item of plant must cease until these are made available to all operators.

References: ISO31000



CRUSHING

MEDIUM 12

LOW 6

Risk Treatments in Place: Front Grader Blade Label

The front blade on this item of plant is fitted with a hazard warning label re: crush zone, keep clear. This label must be present and fully functional and serviceable at all times.

References: ISO20474-, AS1319-



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 religeneral plant movement, tail swing, keep clear. It must be present and fully functional and serviceable at all times.

References: ISO20474-



CRUSHING

CRITICAL 24

LOW 1

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.

References: AS1418.8



STRIKING, ENTANGLEMENT, COLLISION, CRUSHING

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 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 Treatments in Place: Seat Belt

This item of plant is fitted with an operator seat belt. This seat belt must be free from damage, and permanently and sturdily 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



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





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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 - Fully Automatic

This item of plant is fitted with a fully automatic hydraulic (quick) hitch (i.e. has hydraulically operated tatch 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 operation -

- 1. Is a mechanical device i.e. not just an indicating system/device
- 2. Must be intentionally disengaged to remove attachments
- 3, is not the primary source of retention of attachments
- 4. Has means of verifying engagement of the primary retention device from the operator position and
- 5. 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 operator position. This condition must exist at all times whilst this item of plant is in operation.

References: AS/NZS4024.1201



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.

Hydraulic pressure can be stored and is a nazard. Before disconnection or connection of hydraulic noses complete the following steps -

- 1. Stop engine
- 2. Keep all bystancers clear of the work area
- 3. Refer to operators manual as to methods to release pressure
- 4. 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-



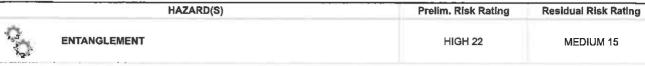


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Risk Treatments in Place: Engine Guards

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



COLLISION

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 criteria 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 structure whilst the plant is in operation)
- Is fitted in the most appropriate location on machine to maximise visibility without risking continual damage

NOTE: more than one beacon may be fitted to meet these criteria.

References: ISO20474-



OPERATIONAL MALFUNCTION

HIGH 22

LOW 2

Risk Treatments in Place: Plant Modification

The plant is in original condition.

References: ISO31000

ROSS RITED

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 rewearing 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



CRUSHING

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: ISO10262



INCORRECT OPERATION

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





Wake Kubota Wodel U25-3

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STRAINS

Prelim. Risk Rating

HIGH 19

Residual Risk Rating

Risk Treatments in Place: Controls Ergonomics

HAZARD(S)

All controls including all levers, buttons, pedals, switches etc. are placed near the operator work position and are easy to reach and operate during the execution of the operator's normal duties. This applies for all persons within the 95th percentile of the normal population distribution.

References: AS/NZS4024.1901



STRIKING, BURNS

HIGH 19

LOW 5

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: AS2671, AS4024, ISO4413



SLIPPING, INCORRECT OPERATION

HIGH 17

LOW 6

Risk Treatments in Place: Control Levers/Pedals/Buttons

All controls including all levers, buttons, cedais, switches etc. must be kept non-stip and free from damage at all times,

References: AS/NZS4024,1901



SLIPPING

MEDIUM 12

LOW 6

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 of machine.

References: AS3868



SLIPPING, FALLING

MED!UM 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



ELECTRIC SHOCK, BURNS

MEDIUM 12

LOW 6

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

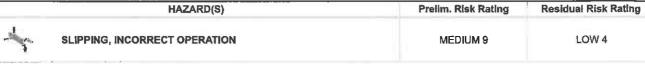




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Risk Treatments in Place: Operator Floor

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-



STRAINS

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

Risk Treatments In Place: Exhaust

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.

References: AS/NZS4024.1201



CURRENT OR PREVIOUS STRUCTURAL DAMAGE

CRITICAL 25

MEDIUM 15

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



INCORRECT OPERATION

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 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.

A complete risk assessment/JSEA must be undertaken covering all inspection, maintenance, servicing and transportation requirements of this 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-



CRUSHING

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



STRIKING, BURNS

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 plant structure. Ensure 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 the hydraulic hoses and protection system should be conducted regularly and documented as part of your plant safety programme.

References: AS2671, AS4024, ISO4413





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Risk Treatments in Place: Major Fluid Leaks

This item of plant must remain free from leaks at all times whilst in operation (this includes engine, transmission, cooling system, air, fuel, drive line, wheel hubs, steering and hydraulics). Development of a major leak will require this item of plant to be stood-down until repaired. Minor leaks detected must be repaired within 1-14 days.

References: ISO31000



OPERATIONAL MALFUNCTION

HIGH 21

MEDIUM 15

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 area as part of your plant safety management programme. This programme includes the undertaking of regular inspections concerning the general condition of the item of plant including (but not limited to) tyre condition, oil levels and wear and tear on critical items such as brakes and steering, etc. All OEM prescribed, scheduled and non scheduled maintenance must also be documented as part of these records and attended to within a risk management framework.

References: Work Health & Safety Act & Regulations-



COLLISION, INSTABILITY

MEDIUM 9

LOW 4

Risk Treatments in Place: Tracks

The tracks and track components must be inspected as part of a "pre-start" checklist. These inspections must be documented as part of your plant safety programme.

References: ISO20474-

SECTION 6 IMAGES AND NOTES

IMAGES

- No triages Available -

NOTES

- No Notes Available -





Serial Number

Assessed By