

RISK MANAGEMENT REPORT

ТҮРЕ	Excavator - Medium (10 - 19.9 Tonne)	
MAKE	Sumitomo	TUTT BRYANT EQUIPMENT
MODEL SH145X-6		A Member of the Tutt Bryant Group
SERIAL NUMBER	145N6-1704	
ENGINE NUMBER	4JJ1-644001	
Report Number	BTE 20220419-1207	
Date	17-May-2022	_
Created By	Elizabeth Martin	
Assessor	ANDREW FAHEY	
Assist. Assessor(s)	ANDREW FAHEY	
Completed By	Breearn Foster	
Owner	Tutt Bryant Equipment - NSW	
Customer	DL CIVIL PTY LTD	
Assessment Purpose	Sale	_
State	NSW	_

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Serial Number Assessed By Date

SECTION 1 IMPORTANT INFORMATION

This report generated by Plant Assessor™ © Online Safety Systems on Tuesday, 17 May 2022 11:25 AM

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

-			
S S		1. Manufacturers specified noise level dBA	
		2. Ambient noise level dBA	
		3. Noise level - Operator position (high idle) dBA	
ETAIL	- NOISE TEST RESULTS	4. Noise level - Operator position (low idle) dBA	
	- 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)	
≦		8. Noise level Rear dBA @ m (high idle)	
<u>天</u>	BUCKET	Standard bucket capacity, SAE rated (m3)	0.50
	BUCKET	Standard bucket width (mm)	
MACHINE	CAPACITIES	Fuel Tank Capacity (Litres)	
		Dig depth to cut 2.44 m level bottom (mm)	
		Digging depth (mm)	5510
	DIMENSIONS/WEIGHTS	Dump height (mm)	6940
	DIMENSIONS/WEIGHTS	Ground clearance (mm)	890
		Max depth of vertical wall (mm)	4900
		Operating weight (kg)	14600





Make Sumitomo Model SH145X-6 Type Excavator - Medium (10 - 19.9 Tonne) Serial Number Assessed By Date

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	Tailswing radius (mm)	1490
	Transport Height (mm)	2790
	Transport Length (mm)	7880
	Width (mm)	2490
	Engine Displacement (Litres)	2.999 ltr
		2.999 lti
	Engine Hours	
ENGINE	Engine Make & Model	ISUZU AM-4JJ1X
	Engine Number	
	Engine Power (kW@rpm)	74.9kW@2000rpm
	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)	2 x 129 ltr/min
	Hydraulic Oil Reservoir Capacity (Litres)	
HYDRAULICS	Pump Types	2 variable displacement axial
		piston pumps
	Relief valve pressure, main pumps (Bar)	34.3 Mpa
PLANT CLASSIFICATIONS	Class	
	Year	
	FOPS Compliance No.	
SAFETY STRUCTURES	FOPS Serial No.	
	ROPS Compliance No.	
	ROPS Serial No.	
TRACKS	Track length on ground (mm)	2790
	Track pad width (mm)	500
TRANSMISSION	Speed (km/h)	5.6/3.4 km/h
	Arm breakout (kgf)	62 kN
WORK CAPABILITIES	Bucket breakout (kgf)	90 kN
WORK CAPABILITIES	Gradeability - Degrees/(%)	70%
	Reach @ ground level (mm)	8290
	Air Conditioning	
	Bucket - 450mm	
	Bucket - 600mm	
	Bucket - 900mm	
EVTDAC	Bucket - Mud - 1800mm	
EXTRAS	FOPS	
	Front Grader Blade	
	Hitch - Quick	
	Hitch - Tilt	
	ROPS - Cabin	





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SECTION 3 RISK ANALYSIS / RISK EVALUATION

RIS	RISK ANALYSIS						
			CONS	SEQUENCE		•	
		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	
\	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.
RISK EVA	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 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 31000:2009)

REAT	Eliminate	Eliminate the risk source.	
RISK1	Substitute	Provide an alternative that is capable of performing the same task which is safer.	
\Box	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.		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 Rating	Residual Risk Rating	Time Frame	Due Date	Date Rectified	Initial
NOI		CRITICAL 24	MEDIUM 15	Immediate	17-May-22		
OPERAT	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 & Regula	tions- , Occupational	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 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				
Δ	tilt tray. References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations			
		HIGH 22	MEDIUM 15		
NO	CRUSHING	CRITICAL 24	MEDIUM 15		
OPERATION	Risk Treatments in Place: Fully Automatic Quick Hitch - Swing Risk This item of plant was fitted with a fully automatic quick hitch prior to December 31st 2015. This type of hitch allows for uncontrolled movement of the attachment in the event of a failure of the primary retention system. This hitch must be replaced prior to December 31st 2022. Ensure that all operators are familiar with the safe use of this hitch.				
	References: SafeWork NSW- Position Paper				





HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
	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. 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 plant. SWMS should be produced for specific tasks associated with use of this item of plant.	-	associated with this item of		
References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations			
	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 operatir	ng this Excavator.		
References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations			
	HIGH 22	MEDIUM 15		
Risk Treatments in Place: SOP Excavator Safe Operation Procedures are available for this Excavator. The information in the Safe Oper 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		
Risk Treatments in Place: Control Labels All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to their p 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 must be clear and legible at all times whilst this item of plant is in operation.	s. Passengers must not be ca	rried at anytime. This label		
Legislation: State Health & Safety Legislation & Regulation				
References: AS1319-				
CRUSHING	HIGH 22	MEDIUM 15		
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 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	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 thes of plant is in operation. Operators must not exceed this rated capacity at any time during operation.	-	at all times whilst this item		
References: AS1418.8				





HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating			
	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 ar	ny 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. References: ISO31000	2. Permission has been granted by the electricity company and				
	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 ad area. This advice must be adhered to strictly. Digging into an electricity cable or gas pipe cal cable may also lead to isolating a community from emergency services such as fire, police or legible at all times.	n cause serious injury or deat	h. Damaging a pipe or			
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 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.	s necessary then operator mu	• ·			
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 a These must be present, clear and legible at all times. (this includes radiator, hydraulic and p		ntrols re: the contents.			
References: Work Health & Safety Act & Regulations- , Occupational 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 prese References: ISO31000	nt, clear and legible at all time	es.			
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(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					
POOR SIGNAGE, CRUSHING	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 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: AS1418.8					





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	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
O	HEARING LOSS	HIGH 19	MEDIUM 14		
Risk Treatr	nents in Place: Hearing Protection Label - Bystanders				
The hazard w	varning labels re: wearing of hearing protection for bystanders attached to this it	tem of plant refer to the level	of noise produced.		
	earing damage will result if hearing protection is not worn. These labels must be	e present, clear and legible at	all times whilst this item of		
plant is in op					
References	:: AS3781- , AS/NZS1269				
Ō	HEARING LOSS	HIGH 19	MEDIUM 14		
Risk Treat	nents in Place: Hearing Protection Label - Operator				
The hazard v	varning label(s) re: wearing of hearing protection attached to this item of plant re	efer to the level of noise produ	uced. Permanent hearing		
damage will	result if hearing protection is not worn. These labels must be present, clear and	legible at all times whilst this	item of plant is in operation.		
References	: AS3781- , AS/NZS1269				
	CRUSHING, STRIKING, COLLISION	HIGH 19	MEDIUM 14		
	nents in Place: Tail Swing Label				
	his item of plant has a hazard warning label re: general plant movement, tail swi	ng, keep clear. It must be pre	esent and fully functional		
	ble at all times.				
References	. 15020474-	1	1		
	CRUSHING	MEDIUM 15	MEDIUM 15		
Risk Treat	nents in Place: ROPS Label				
The warning	label stating that the ROPS must not be damaged at any time (including cuts, d	rill holes and welds) must be	present, clean and legible		
at all times.					
References	References: ISO3471				
₽.	CRUSHING	MEDIUM 14	MEDIUM 13		
Risk Treatr	nents in Place: Front Grader Blade Label				
The front bla	de on this item of plant is fitted with a hazard warning label re: crush zone, keep	clear. This label must be pre	esent and fully functional		
and servicea	ble at all times.				
References	AS1319- , ISO20474-				
00	ENTANGLEMENT, SHEARING, BURNS	MEDIUM 14	MEDIUM 13		
Risk Treat	nents in Place: Engine Guard Label				
The engine fa	an and alternator belts, pulleys and gears are guarded. These guards have clea	r legible hazard warning labe	ls re do not open or		
remove guar	ds while engine is running. These labels must be present, legible and easily see	en at all times whilst this item	of plant is in operation.		
References: AS/NZS4024.1201, AS1319-					
()	CRUSHING, COLLISION	MEDIUM 12	LOW 6		
Risk Treatr	nents in Place: Warning Device (horn)	,			
	plant is fitted with a fully functional audible warning device such as a horn. This i	must be easily accessed by th	ne operator, and easily		
	identifiable by nearby pedestrians.				
All operators should ensure the warning devices are functional at the start of each shift, by completing					
-	cklists. Warning devices should operate automatically where appropriate (eg rev	versing)			
References	References: ISO7731, ISO9533				





	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating				
NCE	CRUSHING	CRITICAL 24	LOW 1				
DESIGN 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.						
6	References: AS1418.8						
ON C	STRIKING, BURNS	HIGH 22	MEDIUM 15				
DES	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 hazard. Before disconnection or connection of hy	draulic hoses complete the fo	llowing 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: AS4024, AS2671						
		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 sec References: ISO31000	urely restrained.					
	References. ISO31000						
		HIGH 22	MEDIUM 15				
	Risk Treatments in Place: Control Lock out The primary operator controls are fitted with an isolation device which meets the following requirements - a) Must be engaged to allow entry & exit of the machine b) Is not easily bypassed. This device deactivates the primary operator controls. This must be employed during entry, exit and while performing maintenance on this item of plant.						
	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 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: AS4772, AS/NZS4024.1906						
	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						





MakeSumitomoModelSH145X-6TypeExcavator - Medium (10 - 19.9 Tonne)

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HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating			
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					
References. A34772, 1307731	1	1			
	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 automa must be fully functional and serviceable at all times whilst this item of plant is in operation.	tically activated when travel in	n any direction occurs. It			
References: ISO7731, ISO9533					
	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 controlled safety device as back up) between the excavator arm and attachments.	operated latch as primary rete	ention device and remotely			
This safety device must meet all of the following criteria at all times prior and during operation	on -				
 Is a mechanical device i.e. not just an indicating system/device Must be intentionally disengaged to remove attachments 					
3. Is not the primary source of retention of attachments4. Has means of verifying engagement of the primary retention device from the operator post5. Has means of verifying engagement of safety system from operator position	ition and				
If any of these criteria are not met at any time then operation must cease.					
References: AS4772					
POOR VISIBILITY, COLLISION	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 function	nal 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 cea	ase immediately and the fault	y 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					
INSTABILITY, CRUSHING, TIP OVER	HIGH 22	MEDIUM 15			
Risk Treatments in Place: Levelness Device					
This item of plant is fitted with a level indicator. This device indicates the "levelness" of the machine chassis.					
During operation operators must ensure the machine is within the manufacturers guidelines for levelness. The rated capacity chart fitted for lifting operations has a maximum level angle which must never be exceeded during lifting operations.					
This level indicator must be present and fully functional at all times whilst this item of plant is in operation.					
References: AS1418.8					





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 criteria	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 stru- - Is fitted in the most appropriate location on machine to maximise visibility without risking control 		peration)				
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	ſ	ſ				
	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. T	These must be functional and	accessible at all times				
whenever the item of plant is manned, whether during operation or maintenance activities.						
References: AS5327	1	1				
	HIGH 21	MEDIUM 15				
Risk Treatments in Place: Windscreen Wipers	1	1				
The windscreen wipers and washers fitted to this item of plant must be fully functional at all t	imes.					
References: AS/NZS4024.1201						
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 498						
this standard must be attached to the structure at all times. This structure provides a safety e						
seat belts at all times whilst this item of plant is in operation and accordingly seat belts must	be worn at all times during of	peration.				
References: AS2294, ISO3471						
	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	÷ .	the operator from heavy				
falling objects (e.g. trees, rocks). Care should still be exercised when operating in an area with the second state in the second state in the second state in the second state in the second state is a second state in the second st	ith 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						
	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						



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	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating			
1	STRAINS	HIGH 19	LOW 5			
Risk Treatn	nents in Place: Controls Ergonomics					
All controls in	ncluding all levers, buttons, pedals, switches etc, are placed near the operator w	ork position and are easy to r	reach and operate during			
the execution	n of the operator's normal duties. This applies for all persons within the 95th per	centile of the normal population	on distribution.			
References	: AS/NZS4024.1901					
V	STRIKING, BURNS	HIGH 19	LOW 5			
Risk Treatn	nents in Place: Hydraulic Hose Failure Shield					
This item of p	plant is fitted with a sturdy, permanent shield(s) between the hydraulic hoses an	d any body parts of the opera	tor to provide protection			
-	e 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					
	INCORRECT OPERATION, SLIPPING	HIGH 17	LOW 6			
Risk Treatn	nents in Place: Control Levers/Pedals/Buttons					
All controls in	ncluding all levers, buttons, pedals, switches etc. must be kept non-slip and free	from damage at all times.				
References	: AS/NZS4024.1901					
×	SLIPPING	MEDIUM 12	LOW 6			
Safe access	nents in Place: Operator Work Area Access/Egress and egress to the cabin/work area(s) must be maintained at all times whilst this e, located at a height so as to not cause undue body stresses and strains with the					
 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					
×	FALLING, SLIPPING	MEDIUM 12	LOW 6			
Risk Treatn	nents in Place: Access/Egress Instruction Label					
An instruction	h label is fitted adjacent access/egress areas to advise all personnel of the follow	wing -				
 Always face the item of plant during access and egress. Always maintain three points of contact during access and egress. Ensure the steps are clean. Never jump off machine. 						
This label must be clear and legible at all times whilst this item of plant is in operation.						
References: ISO31000						
If you can't see my mirrors I CAN'T SEE YDU	POOR VISIBILITY, COLLISION	MEDIUM 12	MEDIUM 11			
Risk Treatments in Place: Operator Mirrors						
The operator rear view mirrors fitted to this item of plant must be fully functional and kept clean at all times. There must always be at least one mirror						
on each side	to provide rear vision to the operator to avoid striking bystanders and objects.					
References	References: AS/NZS4024.1201, ISO14401.1					





	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating			
×	FALLING, SLIPPING, TRIPPING	MEDIUM 12	LOW 6			
Safe access	Risk Treatments in Place: Engine Bay Access 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.					
 Always ma Never car 	el must – ce the item of plant during access and egress. aintain three points of contact during access and egress. ry an object(s) in his/her hand(s) during access and egress. up off machine.					
References						
BATTERY COVER	ELECTRIC SHOCK, BURNS	MEDIUM 12	LOW 6			
All batteries The constrai	ments in Place: Battery Cover fitted to this item of plant are constrained to prevent displacement & fitted with a nt and cover must be present and fully functional and serviceable at all times when a cover must be present and fully functional and serviceable at all times when a cover must be present and fully functional and serviceable at all times when a cover must be present and fully functional and serviceable at all times when a cover must be present and fully functional and serviceable at all times when a cover must be present and fully functional and serviceable at all times when a cover must be present and fully functional and serviceable at all times when a cover must be present as a cover must be present at a cover must be present					
	INCORRECT OPERATION, SLIPPING	MEDIUM 9	LOW 4			
All work area Floor area m use.	Risk Treatments in Place: Work Area Floors 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	s: AS/NZS4024.1201, ISO20474-					
G t	STRAINS	MEDIUM 9	LOW 1			
The operator	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-					
\square	HEAT STROKE, DEHYDRATION	MEDIUM 9	LOW 4			
This item of also provides	Risk Treatments in Place: Air Conditioning This item of plant is fitted with an air conditioned cabin. This air conditioned cabin helps control the air quality and temperature for the operator and also provides shade from the sun. The air conditioner must be fully functional and serviceable at all times whilst this item of plant is in operation. References: ISO31000					
 Image: A start of the start of	BURNS	MEDIUM 9	LOW 5			
The engine e and fully fund	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			
Regular cheo components		s (current or repaired), bends	or damage to structural			
References	References: ISO31000					





	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
*	INCORRECT OPERATION	HIGH 22	MEDIUM 15
Risk Trea	tments in Place: Maintenance Manual	1	1
The manuf	acturer's maintenance manual(s) has been supplied for this item of plant		
	nual(s) must be available at all times to all users and maintenance staff of this iten with these handbook(s) prior to maintaining or repairing this item of plant.	n of plant. All users and main	tenance staff must read and
A complete of plant pri	risk assessment/JSEA must be undertaken covering all inspection, maintenance or to use.	, servicing and transportatior	n requirements of this piece
A full asse	ssment of the competence of people using the book(s) must also be undertaken		
Referenc	es: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations	1
Ŷ	STRIKING, BURNS	HIGH 22	MEDIUM 15
The hydrau that hoses and protee	tments in Place: Hydraulic Damage lic hoses to this item of plant are free from damage and protected against damag are free from damage and that protection is in place at all times whilst this item o tion system should be conducted regularly and documented as part of your plant es: AS4024, ISO4413, AS2671	f plant is in operation. Inspec	•
	CRUSHING	HIGH 22	MEDIUM 15
	tments in Place: ROPS Damage ver Protective Structure (ROPS) fitted to this item of plant must remain free from o	damage at all times whilst this	s item of plant is in
Referenc	es: AS2294, ISO3471	1	1
Ŷ	OPERATIONAL MALFUNCTION	HIGH 22	LOW 2
This item c wheel hubs	tments in Place: Major Fluid Leaks f plant must remain free from leaks at all times whilst in operation (this includes en s, steering and hydraulics). Development of a major leak will require this item of pl ust be repaired within 1-14 days.		
Referenc	es: ISO31000	1	i
	OPERATIONAL MALFUNCTION	HIGH 21	MEDIUM 15
	tments in Place: Service Records d maintenance records are available for this item of plant.		
Service an	u maintenance records are available for this item of plant.		
includes th	ords 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).		· · · ·
	es: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations	
*	POOR VISIBILITY	MEDIUM 9	LOW 4
	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	all times whilst this item of
	es: AS/NZS4024.1201, ISO20474-		
*	INSTABILITY, COLLISION	MEDIUM 9	LOW 4
The tracks safety proc	tments in Place: Tracks and track components must be inspected as part of a "pre start" checklist. These ramme. es: ISO20474-	inspections must be docume	ented as part of your plant
reletenc	5. IUU2V4/4-		





IMAGES

- No Images Available -

NOTES

- No Notes Available -





Serial Number Assessed By Date 145N6-1704 Breearn Foster 17-May-2022



RISK MANAGEMENT REPORT

ТҮРЕ	Excavator - Medium (10 - 19.9 Tonne)	Report Number	BTE 20220419-1207
MAKE	Sumitomo	Date	17-May-2022
MODEL	SH145X-6	Created By	Elizabeth Martin
SERIAL NUMBER	145N6-1704	Assessor	ANDREW FAHEY
ENGINE NUMBER	4JJ1-644001	Assist. Assessor(s)	ANDREW FAHEY
		Owner	Tutt Bryant Equipment - NSW
		Customer	DL CIVIL 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		
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 _____



Tuesday, 17 May 2022 11:25 AM

