

RISK MANAGEMENT REPORT

| TYPE | Excavator - Medium (10 - 19.9 Tonne) | |
|---------------------|--------------------------------------|-----------------------------------|
| MAKE | Sumitomo | TUTT BRYANT EQUIPMENT |
| MODEL | SH145X-6 | A Member of the Tutt Bryant Group |
| SERIAL NUMBER | 145N6-1843 | |
| ENGINE NUMBER | 4JJ1-664782 | |
| Report Number | BTE 20230220-1449 | |
| Date | 13-Apr-2023 | |
| Created By | Laura Samuels | |
| Assessor | Andrew Fahey | |
| Assist. Assessor(s) | ANDREW FAHEY | |
| Completed By | Elizabeth Martin | |
| Owner | Tutt Bryant Equipment - NSW | |
| Customer | CMS PLANT HIRE | |
| Assessment Purpose | Sale | |
| State | NSW | |

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| 36611 | | _ |

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

This report generated by Plant Assessor™ © Online Safety Systems on Thursday, 13 Apr 2023 10:00 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

| - 10 | | Manufacturers specified noise level dBA | |
|--------|----------------------|--|-------|
| ၂ ဟု ၂ | | 2. Ambient noise level dBA | |
| | | 3. Noise level - Operator position (high idle) dBA | |
| | - 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) | |
| ╽╙╽ | | 7. Noise level RHS dBA @ m (high idle) | |
| | | 8. Noise level Rear dBA @ m (high idle) | |
| ACHIN | BUCKET | Standard bucket capacity, SAE rated (m3) | 0.50 |
| | | Standard bucket width (mm) | |
| È | CAPACITIES | Fuel Tank Capacity (Litres) | |
| | | Dig depth to cut 2.44 m level bottom (mm) | |
| | | Digging depth (mm) | 5510 |
| | | Dump height (mm) | 6940 |
| | DIMENSIONS/WEIGHTS | Ground clearance (mm) | 890 |
| | | Max depth of vertical wall (mm) | 4900 |
| | | Operating weight (kg) | 14600 |
| | | Tailswing radius (mm) | 1490 |





Sumitomo SH145X-6

Excavator - Medium (10 - 19.9 Tonne)

Serial Number Assessed By

| | Transport Height (mm) | 2790 |
|------------------------|---|---|
| | Transport Length (mm) | 7880 |
| | | 2490 |
| | Width (mm) Engine Displacement (Litres) | 2.999 ltr |
| | | 2.999 ltr |
| | Engine Hours | 101771111111111111111111111111111111111 |
| 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 | D T | 2 variable displacement axial |
| | Pump Types | piston pumps |
| | Relief valve pressure, main pumps (Bar) | 34.3 Mpa |
| DI ANT CLACCIFICATIONS | Class | |
| PLANT CLASSIFICATIONS | Year | |
| SAFETY STRUCTURES | FOPS Compliance No. | |
| | FOPS Serial No. | |
| | ROPS Compliance No. | |
| | ROPS Serial No. | |
| TDAOVO | Track length on ground (mm) | 2790 |
| TRACKS | Track pad width (mm) | 500 |
| TRANSMISSION | Speed (km/h) | 5.6/3.4 km/h |
| | Arm breakout (kgf) | 62 kN |
| | Bucket breakout (kgf) | 90 kN |
| WORK CAPABILITIES | Gradeability - Degrees/(%) | 70% |
| | Reach @ ground level (mm) | 8290 |
| | Air Conditioning | 0200 |
| | Bucket - 450mm | |
| | Bucket - 900mm | |
| | Bucket - Mud - 1500mm | |
| EXTRAS | FOPS | |
| EXIRAS | Front Grader Blade | |
| | | |
| | Hitch - Quick | |
| | OPG | |
| | ROPS - Cabin | |





SECTION 3 RISK ANALYSIS / RISK EVALUATION

| RI: | RISK ANALYSIS | | | | | | |
|------------|---|---|---|--|---|--|--|
| Ĭ.◀ | CONSEQUENCE— | | | | | | |
| LIKELIHOOD | | 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. |

| ATMENT | 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. | |
| RISKT | Substitute | Provide an alternative that is capable of performing the same task which is safer. | |
| Engineering Provide or construct a physical barrier or guard. | | 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. | |





Make Sumitomo Model SH145X-6

Type Excavator - Medium (10 - 19.9 Tonne)

Serial Number Assessed By Date

SECTION 4 RISK TREATMENTS REQUIRED

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

| | HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | Time Frame | Due Date | Date Rectified | Initial |
|-------------------------------|---------------------|------------------------|-------------------------|---------------|-----------|-------------------|---------|
| NOMINATED OPERATOR ONLY | INCORRECT OPERATION | CRITICAL 24 | MEDIUM 15 | Immediate | 13-Apr-23 | | |

Risk Treatment Required: Operator Competency

OPERATION

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-, 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 | | | | |
|----------|---|---------------------------------|--------------------------|--|--|--|--|
| DELIVERY | CRUSHING | HIGH 22 | MEDIUM 15 | | | | |
| ≥ . | Risk Treatments in Place: SWMS Loading/Unloading | | | | | | |
| H | Ensure that all operators follow approved SWMS/SOP when loading and unloading this machine to and from a flat top truck or trailer, low loader or tilt tray. | | | | | | |
| _ | References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act | & Regulations | | | | | |
| | CRUSHING | HIGH 22 | MEDIUM 15 | | | | |
| | 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- , Occupational Health & Safety Act | | | | | | |
| PERATION | CRUSHING | CRITICAL 24 | MEDIUM 15 | | | | |
| Σ | Risk Treatments in Place: Fully Automatic Quick Hitch | | | | | | |
| 监 | This item of plant is fitted with a fully automatic quick hitch that does not allow attachments t | o swing if the primary retentio | n system fails. | | | | |
| ОР | References: SafeWork NSW- Position Paper | | | | | | |
| | INCORRECT OPERATION | HIGH 22 | MEDIUM 15 | | | | |
| | Risk Treatments in Place: Operation Handbook The manufacturer's operation handbook has been supplied for this item of plant. | ' | | | | | |
| | This handbook must be available at all times to all potential operators and supervisory staff. this handbook prior to operating. | All potential operators must re | ead and be familiar with | | | | |
| | A complete risk assessment/Job Safety Analysis must be undertaken covering all operating processes and environments associated with this item of plant. SWMS should be produced for specific tasks associated with use of this item of plant. | | | | | | |
| | References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act | & Regulations | | | | | |





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ype Excavator - Medium (10 - 19.9 Tonne)

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|---|---------------------|----------------------|--|--|
| 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 must be completed by all operators prior to operating this Excavator. | | | | |
| References: Work Health & Safety Act & Regulations- , Occupational 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 in the Safe Operation Procedures must be followed at all times whilst operating this Excavator.

References: Work Health & Safety Act & Regulations-, Occupational Health & Safety Act & Regulations



INCORRECT OPERATION

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 purpose and method of operation. These labels must be maintained in a clean and serviceable condition at all times.

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. Passengers must not be carried at anytime. This label must be clear and legible at all times whilst this item of plant is in operation.

Legislation: State Health & Safety Legislation & Regulation

References: AS1319-



CRUSHING

HIGH 22

MEDIUM 15

Risk Treatments in Place: ROPS Label

The warning label stating that the ROPS must not be damaged at any time (including cuts, drill holes and welds) must be present, clean and legible at all times.

References: ISO3471



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



ELECTROCUTION

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 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





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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



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-, Occupational 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 re: left hand drive, at the rear. It must be present, clear and legible at all times.

References: ISO31000



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

References: AS1851, AS/NZS1841



CRUSHING, INCORRECT OPERATION

HIGH 21

MEDIUM 15

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 serious injury or death.

References: AS4772



INSTABILITY, CRUSHING

HIGH 21

MEDIUM 15

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: 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



HEARING LOSS

HIGH 19

MEDIUM 14

Risk Treatments in Place: Hearing Protection Label - Bystanders

The hazard warning labels re: wearing of hearing protection for bystanders attached to this item of plant refer to the level of noise produced.

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



HEARING LOSS

HIGH 19

MEDIUM 14

Risk Treatments in Place: Hearing Protection Label - Operator

The hazard warning label(s) re: wearing of hearing protection attached to this item of plant refer to the level of noise produced. 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

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 functional and serviceable at all times.

References: ISO20474-



CRUSHING

MEDIUM 14

MEDIUM 13

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: AS1319-, ISO20474-



ENTANGLEMENT, SHEARING, BURNS

MEDIUM 14

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: AS/NZS4024.1201, AS1319-



CRUSHING, COLLISION

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





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| | HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating |
|---|-----------------|---------------------|----------------------|
| = | 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 hazard. Before disconnection or connection of hydraulic hoses complete the following steps -

- 1. Stop engine
- 2. Keep all bystanders clear of the work area
- 3. Refer to operators manual as to methods to release pressure
- 4. Wait 5 minutes

References: AS4024, AS2671



CRUSHING, COLLISION

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 securely restrained.

References: ISO31000



CRUSHING, NON COMPLIANCE

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

If you can't see my mirror I CAN'T SEE YOU

POOR VISIBILITY, COLLISION

HIGH 22

MEDIUM 15

Risk Treatments in Place: Operator Mirrors

The operator rear view mirrors fitted to this item of plant must be fully functional and kept 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: AS/NZS4024.1201, ISO14401.1





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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



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 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



STRIKING, BURNS

HIGH 22

MEDIUM 15

Risk Treatments in Place: Hydraulic Hose Failure Shield

This item of plant is fitted with a sturdy, permanent shield(s) between the hydraulic hoses and any body parts of the operator to provide protection during a hose or component failure. This shield(s) must be present and fully functional at all times whilst this item of plant is in operation.

References: AS4024, ISO4413, AS2671



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 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





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| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating |
|-----------|---------------------|----------------------|
| FALLING | HIGH 22 | MEDIUM 15 |

Risk Treatments in Place: Handrails

All operator work platforms are either -

a) above 0.5m and below 2.0m from the ground or nearest platform and have three points of contact which can be constantly maintained by any person on the platform performing expected tasks or

b) are above 2.0m from the ground or nearest platform and have an approved guardrail which meets the following requirements:

- 1. All guardrails are at least 1.1m high
- 2. All guardrails have a mid rail
- 3. All sides and ends have a kick plate which is at least 100mm high.

These work platforms and/or access points must have guardrails present that are fully functional and serviceable at all times whilst this item of plant is in operation.

References: AS5327



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



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. These must be functional and accessible at all times whenever the item of plant is manned, whether during operation or maintenance activities.

References: AS5327



ENTRAPMENT

HIGH 21

MEDIUM 15

Risk Treatments in Place: Emergency Exits

The emergency exits for this item of plant meet the following requirements -

- 1. Clearly and legibly labelled
- 2. Instructions for use are clear and legible and located adjacent the exit
- 3. Any required tools required for use are available e.g. Emergency hammers

These exits must be legibly labelled and fully functional at all times whenever the item of plant is manned, whether during operation or maintenance activities.

References: ISO31000



POOR VISIBILITY, COLLISION

HIGH 21

MEDIUM 15

Risk Treatments in Place: Windscreen Wipers

The windscreen wipers and washers fitted to this item of plant must be fully functional at all times.

References: AS/NZS4024.1201





Make Sumitomo Model SH145X-6

Type Excavator - Medium (10 - 19.9 Tonne)

Serial Number Assessed By Date

| HAZARD(S) | | Prelim. Risk Rating | Residual Risk Rating |
|----------------|----------|---------------------|----------------------|
| 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



CRUSHING

HIGH 21

LOW 5

Risk Treatments in Place: FOPS Level II

This item of plant is fitted with a level II Falling Objects Protective Structure (FOPS). This structure is designed to protect the operator from heavy falling objects (e.g. trees, rocks). Care should still be exercised when operating in an area with a risk of falling objects.

References: AS2294, ISO3449, ISO10262



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



STRAINS

HIGH 19

LOW 5

Risk Treatments in Place: Controls Ergonomics

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



INCORRECT OPERATION, SLIPPING

HIGH 17

LOW 6

Risk Treatments in Place: Control Levers/Pedals/Buttons

All controls including 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

Risk Treatments in Place: Operator Work Area Access/Egress

Safe access and egress to the cabin/work area(s) must be maintained at all times whilst this item of plant is in operation. It must be non slip, free from damage, located at a height so as to not cause undue body stresses and strains with three points of contact available to personnel at all times.

All personnel must -

- 1. Always face the item of plant during access and egress.
- 2. Always maintain three points of contact during access and egress.
- 3. Never carry an object(s) in his/her hand(s) during access and egress.
- 4. Never jump off machine.

References: AS5327



FALLING, SLIPPING

MEDIUM 12

LOW 6

Risk Treatments in Place: Access/Egress Instruction Label

An instruction label is fitted adjacent access/egress areas to advise all personnel of the following -

- 1. Always face the item of plant during access and egress.
- 2. Always maintain three points of contact during access and egress.
- 3. Ensure the steps are clean.
- 4. Never jump off machine.

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

References: ISO31000





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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.

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

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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



INCORRECT OPERATION, SLIPPING

MEDIUM 9

LOW 4

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: 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-



HEAT STROKE, DEHYDRATION

MEDIUM 9

LOW 4

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



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

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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





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Serial Number Assessed By Date



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-, Occupational Health & Safety Act & Regulations



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: AS4024, ISO4413, AS2671



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



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 (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 managed and available at all times as part of your service and maintenance programme. (This programme includes the undertaking of regular inspections of the item of plant with specific reference to all OEM prescribed, scheduled and non scheduled service and maintenance requirements).

References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & Regulations



POOR VISIBILITY, COLLISION

HIGH 21

MEDIUM 15

Risk Treatments in Place: Windows & Screens

Ensure the cabin/work area safety glass windows and screens are kept clean and free from cracks and other damage at all times whilst this item of plant is in use.

References: AS/NZS4024.1201, ISO20474-



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-





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SECTION 6 IMAGES AND NOTES

IMAGES

- No Images Available -

NOTES

- No Notes Available -





Make Sumitomo Model SH145X-6

Type Excavator - Medium (10 - 19.9 Tonne)



RISK MANAGEMENT REPORT

| TYPE | Excavator - Medium (10 - 19.9 Tonne) | Report Number | BTE 20230220-1449 |
|---------------|--------------------------------------|---------------------|--------------------------------|
| MAKE | Sumitomo | Date | 13-Apr-2023 |
| MODEL | SH145X-6 | Created By | Laura Samuels |
| SERIAL NUMBER | 145N6-1843 | Assessor | Andrew Fahey |
| ENGINE NUMBER | 4JJ1-664782 | Assist. Assessor(s) | ANDREW FAHEY |
| | | Owner | Tutt Bryant Equipment - NSW |
| | | Customer | CMS PLANT HIRE |
| | | 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 |



Date

Make Sumitomo