

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 | 145N6-1708 | |
| ENGINE NUMBER | 4JJ1-644428 | |
| Report Number | BTE 20220923-1152 | _ |
| Date | 27-Sep-2022 | _ |
| Created By | Elizabeth Martin | |
| Assessor | ANDREW FAHEY | |
| Assist. Assessor(s) | ANDREW FAHEY | |
| Completed By | Breearn Foster | |
| Owner | Tutt Bryant Equipment - NSW | |
| Customer | CMS LANDSCAPE & PAVING 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, 27 Sep 2022 9:07 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 | |
|---------|----------------------|--|-------|
| 1 _ 1 | | 2. Ambient noise level dBA | |
| | | 3. Noise level - Operator position (high idle) dBA | |
| ETAI | - 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) | |
| Щ | | 7. Noise level RHS dBA @ m (high idle) | |
| ≦ | | 8. Noise level Rear dBA @ m (high idle) | |
| <u></u> | BUCKET | Standard bucket capacity, SAE rated (m3) | 0.50 |
| | | Standard bucket width (mm) | |
| MACHINE | 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 |





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| | Transport Height (mm) | 2790 |
|-----------------------|---|-------------------------------|
| | Transport Length (mm) | 7880 |
| | Width (mm) | 2490 |
| | Engine Displacement (Litres) | 2.999 ltr |
| | Engine Hours | |
| | Engine Make & Model | ISUZU AM-4JJ1X |
| ENGINE | Engine Number | |
| | Engine Power (kW@rpm) | 74.9kW@2000rpm |
| | Number of Cylinders | 4 |
| EXTRAS | Spare spool for attachments? Yes/No | Yes |
| | Quick Hitch Make | |
| НІТСН | Quick Hitch Model | |
| | Quick Hitch Serial No. | |
| | Flow of main pumps (L/Min) | 2 x 129 ltr/min |
| | Hydraulic Oil Reservoir Capacity (Litres) | |
| HYDRAULICS | | 2 variable displacement axial |
| | Pump Types | piston pumps |
| | Relief valve pressure, main pumps (Bar) | 34.3 Mpa |
| | Class | |
| PLANT CLASSIFICATIONS | Year | |
| | FOPS Compliance No. | |
| | FOPS Serial No. | |
| SAFETY STRUCTURES | ROPS Compliance No. | |
| | ROPS Serial No. | |
| TRACKO | 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 |
| WORK CAPABILITIES | Bucket breakout (kgf) | 90 kN |
| WORK CAPABILITIES | Gradeability - Degrees/(%) | 70% |
| | Reach @ ground level (mm) | 8290 |
| | Air Conditioning | |
| | FOPS | |
| | Front Grader Blade | |
| EXTRAS | Hammer Piping | |
| _ | Hitch - Quick | |
| | OPG | |
| | ROPS - Cabin | |





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SECTION 3 RISK ANALYSIS / RISK EVALUATION

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

| | LUATION | CRITICAL | Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below. |
|--|---------|----------|--|
| | | 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. |

RISKTREATMENT

| EATMENT | 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) | | |
|---|---|---|--|
| ~ | Eliminate | Eliminate the risk source. | |
| Substitute Provide an alternative that is capable of performing the same task which is safer. | | Provide an alternative that is capable of performing the same task which is safer. | |
| \square | 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 Rating | Residual Risk Rating | Time Frame | Due Date | Date Rectified | Initial |
|-------|---|------------------------|---------------------------------------|---------------|-----------|-------------------|-----------|
| NO | | CRITICAL 24 | MEDIUM 15 | Immediate | 27-Sep-22 | | |
| ERATI | 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. | | | | | | |
| OP | | | | · | | · | arson can |
| ОР | operate this item of plant. Legislation: State Health & Safety Legislation & F | egulation | , , , , , , , , , , , , , , , , , , , | | | | erson can |

SECTION 5 RISK TREATMENTS IN PLACE

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

| | HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | |
|-----------|---|---------------------|----------------------|--|--|
| ERY | CRUSHING | HIGH 22 | MEDIUM 15 | | |
| DELIV | Risk Treatments in Place: SWMS Loading/Unloading Ensure that all operators follow approved SWMS/SOP when loading and unloading this machine to and from a flat top truck or trailer, low loader or tilt tray. | | | | |
| | References: Work Health & Safety Act & Regulations- , 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 | & Regulations | | | |
| NOI | 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. All potential operators must read and be familiar with this handbook prior to operating. | | | | | |
| A complete risk assessment/Job Safety Analysis must be undertaken covering all operating plant. SWMS should be produced for specific tasks associated with use of this item of plant. | processes and environments | associated with this item of | | | |
| References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & | & Regulations | 1 | | | |
| | 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 | | ng this Excavator. | | | |
| References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act | & Regulations | 1 | | | |
| | 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 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: ISO3471 | | | | | |
| CRUSHING 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 | t be worn". | | | | |
| This label must be present, clean and legible at all times. | | | | | |
| All operators and passengers must wear seatbelts whilst on this item of plant. | | | | | |
| References: AS2294, ISO3471 | | | | | |





| 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 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 | | · | | | |
| | 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 can cable may also lead to isolating a community from emergency services such as fire, police of 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 | s necessary then operator mu | ••• | | | |
| 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 a These must be present, clear and legible at all times. (this includes radiator, hydraulic and po References: Work Health & Safety Act & Regulations-, Occupational Health & Safety Act | etrol/diesel tanks) | ntrols re: the contents. | | | |
| References. Work riealth & Safety Act & Regulations-, Occupational riealth & Safety Act | a 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 | nt, clear and legible at all time | es. | | | |
| References: ISO31000 | | | | | |
| FIRE FIRE | HIGH 21 | MEDIUM 15 | | | |
| Risk Treatments in Place: Fire Extinguisher | | | | | |
| This item of plant is fitted with an approved and maintained fire extinguisher. Fire extinguisher(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 | | | | | |





| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | | |
|---|------------------------------------|---------------------------------|--|--|--|
| 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 | | | | | |
| The maximum rated capacity clearly and durably marked upon it 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 h | itch for any task. Failure to co | nsider and or comply with | | | |
| this information could lead to serious injury or death. References: AS4772 | | | | | |
| | | | | | |
| | HIGH 21 | MEDIUM 15 | | | |
| Risk Treatments in Place: Boom Rated Capacity Label | 1 | | | | |
| This item of plant has a rated capacity label fitted to each side of the boom. Ensure that the | • | at all times whilst this item | | | |
| of plant is in operation. Operators must not exceed this rated capacity at any time during op | eration. | | | | |
| References: AS1418.8 | | [| | | |
| INSTABILITY, CRUSHING | HIGH 21 | MEDIUM 15 | | | |
| 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 p | • | | | | |
| legible at all times. This item of plant must comply with the relevant parts of AS 1418 at all this item of plant and ligenced where personant. | times. All operators must be a | ppropriately 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 | 1 | 1 | | | |
| The hazard warning labels re: wearing of hearing protection for bystanders attached to this | | | | | |
| Permanent hearing damage will result if hearing protection is not worn. These labels must b | e present, clear and legible at | t 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 r | | | | | |
| damage will result if hearing protection is not worn. These labels must be present, clear and | I 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 sw | ing, keep clear. It must be pre | esent and fully functional | | | |
| and serviceable at all times. | | | | | |
| References: ISO20474- | | | | | |
| | 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- | | | | | |





| | HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | |
|-------------------------|---|-------------------------------|-------------------------|--|--|
| 00 | ENTANGLEMENT, SHEARING, BURNS | MEDIUM 14 | MEDIUM 13 | | |
| The engir remove g | 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 | | |
| This item | atments in Place: Warning Device (horn) of plant is fitted with a fully functional audible warning device such as a horn. This e by nearby pedestrians. | must be easily accessed by th | ne operator, and easily | | |
| pre-start o | ors should ensure the warning devices are functional at the start of each shift, by c checklists. Warning devices should operate automatically where appropriate (eg re | | | | |
| Referen | ces: ISO7731, ISO9533 | 1 | | | |
| | COLLISION | MEDIUM 9 | LOW 5 | | |
| This item towing ins | atments in Place: Recovery Point Label of plant is fitted with a hazard warning label adjacent the recovery tow point which structions before towing". Failure to do so could result in DEATH or SERIOUS INJU | , i | Read manufacturer's | | |
| | must be clear and legible at all times whilst this item of plant is in operation. | | | | |
| Referen | ces: 15031000 | 1 | | | |
| ⚠ | CRUSHING | CRITICAL 24 | LOW 1 | | |
| The lifting time. | 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. | | | | |
| Referen | ces: AS1418.8 | | | | |
| ₹ T | STRIKING, BURNS | HIGH 22 | MEDIUM 15 | | |
| This item | 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 | Hydraulic pressure can be stored and is a hazard. Before disconnection or connection of hydraulic hoses complete the following steps - | | | | |
| 2. Keep a 3. Refer t | Stop engine Keep all bystanders clear of the work area Refer to operators manual as to methods to release pressure Wait 5 minutes | | | | |
| Referen | ces: 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. | | | | |
| Referen | References: ISO31000 | | | | |





| | HAZARD(S) Prelim. Risk Rating Residual Risk Rating | | | | | |
|--|---|-----------------------------------|------------------------------|--|--|--|
| | CRUSHING, NON COMPLIANCE | HIGH 22 | MEDIUM 15 | | | |
| The primary a) Must be e | 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. | | | | | |
| plant. This device | 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. | | | | | |
| Reference | S: ISO10968 | 1 | 1 | | | |
| Ν | CRUSHING, ENTANGLEMENT, STRIKING, COLLISION | HIGH 22 | MEDIUM 15 | | | |
| | nents in Place: Neutral Start plant has neutral start control in place. It must be fully functional and serviceable | e at all times whilst this item o | f plant is in operation. | | | |
| Reference | s: AS4024.1603 | | | | | |
| | CRUSHING | HIGH 22 | MEDIUM 15 | | | |
| The quick hi | nents in Place: Quick Hitch Controls tch operation control fitted with a device/method to prevent accidental operation. lant is in operation. | . This device must be fully fur | nctional at all times whilst | | | |
| Reference | s: 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 micrors 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 | | | | | | |
| | CRUSHING | HIGH 22 | MEDIUM 15 | | | |
| Risk Treatments in Place: Quick Hitch Operation Alarm This item of plant is fitted with a quick hitch with a fully functional audible alarm fitted to the operator work area to alert the operator that the host machine is in the mode that allows for the controls to be operated to engage or disengage attachments. | | | | | | |
| This alarm must be fully functional at all times whilst this item of plant is in operation. | | | | | | |
| References: AS4772, ISO7731 | | | | | | |
| | CRUSHING | HIGH 22 | MEDIUM 15 | | | |
| Risk Treat | 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 | | | | | |
| reference | . 13U/131, 13U9333 | | | | | |





| HAZARD(S) Prelim. Risk Rating Residual Risk Rating | | | | | | | |
|--|---|-----------------------------|--|--|--|--|--|
| | 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 operatio | on - | | | | | | |
| Is a mechanical device i.e. not just an indicating system/device Must be intentionally disengaged to remove attachments Is not the primary source of retention of attachments Has means of verifying engagement of the primary retention device from the operator position and Has means of verifying engagement of safety system from operator position | | | | | | | |
| If any of these criteria are not met at any time then operation must cease. | | | | | | | |
| STRIKING, BURNS | 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 an during a hose or component failure. This shield(s) must be present and fully functional at all 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 function operation in areas of reduced light. If any of these lights stop working the operation must cea operation can continue in the areas of reduced light. References: ISO20474- | | | | | | | |
| | | ĺ | | | | | |
| 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 p whilst this item of plant is in operation. | present and fully functional ar | nd serviceable at all times | | | | | |
| 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 | | | | | | | |
| 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 | | | | | | | |

Plant assessor



 Make
 Sumitomo

 Model
 SH145X-6

 Type
 Excavator - Medium (10 - 19.9 Tonne)

Serial Number Assessed By Date 145N6-1708 Breearn Foster 27-Sep-2022

| HAZARD(S) Prelim. Risk Rating Residual Risk Rating | | | | | | | |
|--|---------------------------------------|--------------------------------|--|--|--|--|--|
| 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 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- | | | | | | | |
| | OPERATIONAL MALFUNCTION HIGH 22 LOW 2 | | | | | | |
| Risk Treatments in Place: Plant Modification | | | | | | | |
| The plant is in original condition. | | | | | | | |
| References: ISO31000 | 1 | 1 | | | | | |
| | HIGH 21 | MEDIUM 15 | | | | | |
| Risk Treatments in Place: Two Operator Exits The operator cabin/work area on this item of plant has a minimum of two (2) possible exits. Whenever the item of plant is manned, whether during operation or maintenance activities. | These must be functional and | accessible at all times | | | | | |
| References: AS5327 | | | | | | | |
| | HIGH 21 | MEDIUM 15 | | | | | |
| Risk Treatments in Place: Emergency Exits | | | | | | | |
| The emergency exits for this item of plant meet the following requirements - | | | | | | | |
| Clearly and legibly labelled Instructions for use are clear and legible and located adjacent the exit 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 | | | | | | | |
| 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 | | | | | | | |
| 1000000000 A02204, 100047 1 | 1 | 1 | | | | | |
| | 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 | | | | | | | |





| | HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | |
|---|--|---------------------------|----------------------|--|--|
| STOP | CRUSHING | HIGH 21 | MEDIUM 15 | | |
| This item of p lifting of freel also be met p | 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. | | | | |
| | 1000010, 101110.0 | | | | |
| | INCORRECT OPERATION | HIGH 20 | MEDIUM 14 | | |
| The controls control lever operation. | nents in Place: Intuitive Controls fitted to this item of plant are orientated so that the movement of the control is o to the left results in the machine turning to the left. This design feature must be | | • • | | |
| References | S: AS/NZS4024.1906 | 1 | 1 | | |
| Å | STRAINS | HIGH 19 | LOW 5 | | |
| All controls in the execution | nents in Place: Controls Ergonomics ncluding all levers, buttons, pedals, switches etc, are placed near the operator w n of the operator's normal duties. This applies for all persons within the 95th per s: AS/NZS4024.1901 | | | | |
| References | AS/NZS4024.1901 | [| 1 | | |
| ₽ | INCORRECT OPERATION, SLIPPING | HIGH 17 | LOW 6 | | |
| Risk Treatr | 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 | | |
| Risk Treatr | nents in Place: Operator Work Area Access/Egress | | | | |
| Safe access and egress to the cabin/work area(s) must be maintained at all times whilst 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 | | | | | |
| References | . A00021 | 1 | 1 | | |
| × | 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 - | | | | | |
| 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 | | | | |





| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | | |
|--|---|-----------------------------|--|--|--|
| FALLING, SLIPPING, TRIPPING | MEDIUM 12 | LOW 6 | | | |
| 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. | Always face the item of plant during access and egress. Always maintain three points of contact during access and egress. Never carry an object(s) in his/her hand(s) during access and egress. | | | | |
| References: AS5327 | | | | | |
| 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 The constraint and cover must be present and fully functional and serviceable at all times whe 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 use. | d other items, at all times while | st this item of plant is in | | | |
| References: AS/NZS4024.1201, ISO20474- | | | | | |
| GA 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 | e permanently and securely fi | itted 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 | 1 | 1 | | | |
| 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 | | | | | |
| | | | | | |



plant assessor reduced series made sees



| 23 | HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating |
|---|--|--|--|
| | INCORRECT OPERATION | HIGH 22 | MEDIUM 15 |
| Risk Tre | atments in Place: Maintenance Manual | | |
| The manu | ufacturer's maintenance manual(s) has been supplied for this item of plant | | |
| | anual(s) must be available at all times to all users and maintenance staff of this item r 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 |
| - | te risk assessment/JSEA must be undertaken covering all inspection, maintenance rior to use. | , servicing and transportatior | n requirements of this piece |
| A full asse | essment of the competence of people using the book(s) must also be undertaken | | |
| Referen | ces: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act | & Regulations | |
| ₹ T | STRIKING, BURNS | HIGH 22 | MEDIUM 15 |
| The hydra that hoses and prote | atments in Place: Hydraulic Damage aulic hoses to this item of plant are free from damage and protected against damag s are free from damage and that protection is in place at all times whilst this item o ection system should be conducted regularly and documented as part of your plant ces: AS4024, ISO4413, AS2671 | f plant is in operation. Inspec | |
| 1 | CRUSHING | HIGH 22 | MEDIUM 15 |
| The Roll (operation | | damage at all times whilst thi | s item of plant is in |
| Referen | ces: AS2294, ISO3471 | | 1 |
| ₹ T | OPERATIONAL MALFUNCTION | HIGH 22 | LOW 2 |
| This item | atments in Place: Major Fluid Leaks of plant must remain free from leaks at all times whilst in operation (this includes en os, steering and hydraulics). Development of a major leak will require this item of pl must be repaired within 1.14 days | | |
| | must be repaired within 1-14 days. | | |
| detected I | ces: ISO31000 | | |
| detected I | | HIGH 21 | MEDIUM 15 |
| Risk Tre | Ces: ISO31000 OPERATIONAL MALFUNCTION atments in Place: Service Records | HIGH 21 | MEDIUM 15 |
| Risk Tre | Ces: ISO31000 OPERATIONAL MALFUNCTION | HIGH 21 | MEDIUM 15 |
| Reference Reference Service au These rec includes t | Ces: ISO31000 OPERATIONAL MALFUNCTION atments in Place: Service Records | e and maintenance program | me. (This programme |
| Reference Reference Risk Tre Service and These reconcilence includes t service and | Ces: ISO31000 OPERATIONAL MALFUNCTION atments in Place: Service Records Ind maintenance records are available for this item of plant. Cords must continue to be managed and available at all times as part of your service he undertaking of regular inspections of the item of plant with specific reference to | e and maintenance program all OEM prescribed, schedul | me. (This programme |
| Reference Reference Risk Tre Service and These reconcilence includes t service and | Ces: ISO31000 OPERATIONAL MALFUNCTION atments in Place: Service Records nd maintenance records are available for this item of plant. cords must continue to be managed and available at all times as part of your service he undertaking of regular inspections of the item of plant with specific reference to and maintenance requirements). | e and maintenance program all OEM prescribed, schedul | me. (This programme |
| Reference Reference Risk Tre Service and These rec includes t service ar Reference Reference Risk Tre | Ces: ISO31000 OPERATIONAL MALFUNCTION atments in Place: Service Records Ind maintenance records are available for this item of plant. cords must continue to be managed and available at all times as part of your service the undertaking of regular inspections of the item of plant with specific reference to ad maintenance requirements). Ces: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & POOR VISIBILITY, COLLISION atments in Place: Windows & Screens e cabin/work area safety glass windows and screens are kept clean and free from the second | e and maintenance program all OEM prescribed, schedul & Regulations HIGH 21 | me. (This programme ed and non scheduled MEDIUM 15 |
| Risk Tre Service and These rec includes t service ar Reference Risk Tre Ensure th plant is in | Ces: ISO31000 OPERATIONAL MALFUNCTION atments in Place: Service Records Ind maintenance records are available for this item of plant. cords must continue to be managed and available at all times as part of your service the undertaking of regular inspections of the item of plant with specific reference to ad maintenance requirements). Ces: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & POOR VISIBILITY, COLLISION atments in Place: Windows & Screens e cabin/work area safety glass windows and screens are kept clean and free from the second | e and maintenance program all OEM prescribed, schedul & Regulations HIGH 21 | me. (This programme ed and non scheduled MEDIUM 15 |
| detected in Reference Risk Tre Service an These rec includes t service ar Reference Reference Risk Tre Ensure th plant is in | ces: ISO31000 OPERATIONAL MALFUNCTION atments in Place: Service Records nd maintenance records are available for this item of plant. cords must continue to be managed and available at all times as part of your service he undertaking of regular inspections of the item of plant with specific reference to ad maintenance requirements). Ces: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & POOR VISIBILITY, COLLISION atments in Place: Windows & Screens e cabin/work area safety glass windows and screens are kept clean and free from use. | e and maintenance program all OEM prescribed, schedul & Regulations HIGH 21 | me. (This programme ed and non scheduled MEDIUM 15 |
| Risk Tre Service and Reference Service and These rec includes t service and Reference Reference Risk Tre Ensure th plant is in Reference Reference Risk Tre | Ces: ISO31000 OPERATIONAL MALFUNCTION attments in Place: Service Records Ind maintenance records are available for this item of plant. cords must continue to be managed and available at all times as part of your service the undertaking of regular inspections of the item of plant with specific reference to and maintenance requirements). Ces: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & POOR VISIBILITY, COLLISION attments in Place: Windows & Screens te cabin/work area safety glass windows and screens are kept clean and free from use. Ces: AS/NZS4024.1201, ISO20474- INSTABILITY attments in Place: Tracks s and track components must be inspected as part of a "pre start" checklist. These | e and maintenance program all OEM prescribed, schedul & Regulations HIGH 21 cracks and other damage at MEDIUM 9 | me. (This programme ed and non scheduled MEDIUM 15 all times whilst this item of LOW 4 |





- No Images Available -

NOTES

- No Notes Available -







RISK MANAGEMENT REPORT

| ТҮРЕ | Excavator - Medium (10 - 19.9 Tonne) | Report Number | BTE 20220923-1152 |
|---------------|---|---------------------|-----------------------------------|
| MAKE | Sumitomo | Date | 27-Sep-2022 |
| MODEL | SH145X-6 | Created By | Elizabeth Martin |
| SERIAL NUMBER | 145N6-1708 | Assessor | ANDREW FAHEY |
| ENGINE NUMBER | 4JJ1-644428 | Assist. Assessor(s) | ANDREW FAHEY |
| | | Owner | Tutt Bryant Equipment - NSW |
| | | Customer | CMS LANDSCAPE & PAVING PTY LTD |
| | | Assessment Purpose | Sale |
| | | State | NSW |

PURCHASER ACKNOWLEDGEMENT

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

| Name | | |
|--------------|--|--|
| Company Name | | |
| Position | | |
| Signature | | |
| Date | | |
| | | |

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

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

My Plant Assessor email is _____



