

RISK MANAGEMENT REPORT

| ТҮРЕ | Excavator - Small (0 - 9.9 Tonne) | |
|---------------------|-----------------------------------|--|
| MAKE | Yanmar | |
| MODEL | VIO55-6B | |
| SERIAL NUMBER | 61605 | |
| ENGINE NUMBER | 65224 | |
| Report Number | BTE 20200820-1237 | |
| Date | 27-Aug-2020 | |
| Created By | Kelly Mira | |
| Assessor | Kelly Mira | |
| Assist. Assessor(s) | DARREN CALDER | |
| Completed By | Kelly Mira | |
| Owner | Tutt Bryant Equipment - NSW | |
| Customer | DL CIVIL PL | |
| Assessment Purpose | Sale | |
| State | NSW | |

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|-----------|---|
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Serial Number Assessed By Date 61605 Kelly Mira 27-Aug-2020

SECTION 1 IMPORTANT INFORMATION

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This Risk Management Report has been prepared for -

(insert recipient name/company name)

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

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

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

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

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

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

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

| ഗ | | 1. Manufacturers specified noise level dBA | |
|-------|----------------------|--|------|
| | | 2. Ambient noise level dBA | |
| ETAII | | 3. Noise level - Operator position (high idle) dBA | |
| E I | - 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) | |
| U U U | | 7. Noise level RHS dBA @ m (high idle) | |
| HIN | | 8. Noise level Rear dBA @ m (high idle) | |
| 5 | BUCKET | Standard bucket capacity, SAE rated (m3) | |
| | BUCKET | Standard bucket width (mm) | 700 |
| MA | CAPACITIES | Fuel Tank Capacity (Litres) | 66 |
| | CAPACITIES | Hydraulic Oil Tank Capacity (Litres) | |
| | | Dig depth to cut 2.44 m level bottom (mm) | |
| | DIMENSIONS/WEIGHTS | Digging depth (mm) | 4120 |
| | | Dump height (mm) | 4050 |

SECTION 2 MACHINE DETAILS





Make Yanmar Model VIO55-6B Type Excavator - Small (0 - 9.9 Tonne) Serial Number Assessed By Date 61605 Kelly Mira 27-Aug-2020

| | Ground clearance (mm) | 345 |
|-----------------------|---|---------------------|
| | Max depth of vertical wall (mm) | |
| | Operating weight (kg) | 5565 |
| | Tailswing radius (mm) | 995 |
| | Transport height (mm) | 2540 |
| | Transport length (mm) | 5580 |
| | Width (mm) | 1990 |
| | Engine Displacement (Litres) | 1990 |
| | Engine Hours | |
| | Engine Make & Model | Yanmar 4TNV84T-ZMBV |
| ENGINE | Engine Number | |
| | Engine Power (kW@rpm) | 33.4@2200 |
| | 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) | |
| HYDRAULICS | Pump Types | 2 x VDAP + Gear |
| | Relief valve pressure, main pumps (Bar) | 458 |
| PLANT CLASSIFICATIONS | Class | |
| PLANT CLASSIFICATIONS | Year | 2015 |
| | FOPS Compliance No. | |
| SAFETY STRUCTURES | FOPS Serial No. | |
| SAFEIT SIRUCIURES | ROPS Compliance No. | |
| | ROPS Serial No. | |
| TRACKS | Track length on ground (mm) | 2590 |
| IRACKS | Track pad width (mm) | 400 |
| TRANSMISSION | Speed (km/h) | 2.0/4.2 |
| | Arm breakout (kgf) | 3120 |
| | Bucket breakout (kgf) | 4190 |
| WORK CAPABILITIES | Gradeability - Degrees/(%) | 70 |
| | Reach @ ground level (mm) | 6290 |
| | Air Conditioning | |
| | Bucket - 300mm | |
| | Bucket - 450mm | |
| | Bucket - 600mm | |
| | Bucket - Mud - 1200mm | |
| EXTRAS | FOPS | 1 |
| | Front grader blade | |
| | Hitch - Quick | |
| | Ripper | |
| | ROPS - Cabin | |
| | | |





SECTION 3 RISK ANALYSIS / RISK EVALUATION

| RI | RISK ANALYSIS | | | | | | |
|------------|---|---|---|--|---|--|--|
| | 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 | | |
|-----------------|---|---|
| RISK EVA | HIGH HIGH Permanent risk treatments are not immediately accessible establish interim risk treatment strategies. | |
| | 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. |
| | | Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within three months. |

Selecting the most appropriate risk treatment option involves balancing the costs and efforts of implementation against the benefits derived, with regard to legal, regulatory and other requirements. (source AS/NZS ISO 31000:2009)

| REAT | Eliminate | Eliminate the risk source. |
|--------|------------------------|---|
| RISK1 | Substitute | Provide an alternative that is capable of performing the same task which is safer. |
| \Box | Engineering | Provide or construct a physical barrier or guard. |
| | Administration | Develop policies, procedures, practices and guidelines in consultation with employees to mitigate the risk. Provide training, instruction and supervision about the risk source. |
| | Personal protective | Provide personal protective equipment to protect the individual from the risk source. |





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 |
|---|---|------------------------|-------------------------|---------------|-----------|-------------------|---------|
| S | NOMINATED OPERATOR ONLY | ON CRITICAL 24 | MEDIUM 15 | Immediate | 27-Aug-20 | | |
| Risk Treatment Required: Operator Competency Only persons who are qualified, trained and experienced and/or hold the relevant certification/license can operate this item of plant. If there is not a competent/licensed person available for operation of this item of plant then only persons who are supervised by a competent/licensed person can operate this item of plant. | | | | | | | |
| Legislation: State Health & Safety Legislation & Regulation | | | | | | | |
| | References: Work Health & Safety Act & Regulations- | | | | | | |

SECTION 5 RISK TREATMENTS IN PLACE

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

| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | | |
|--|--|---|--|--|--|
| CRUSHING | HIGH 22 | MEDIUM 15 | | | |
| Risk Treatments in Place: SWMS Loading/Unloading Ensure that all operators follow approved SWMS/SOP when loading and unloading this machine to and from a flat top truck or trailer, low loader or tilt tray. | | | | | |
| References: Work Health & Safety Act & Regulations- | | | | | |
| CRUSHING | HIGH 22 | MEDIUM 15 | | | |
| Risk Treatments in Place: SWMS Load Restraint Ensure that all operators follow the approved SWMS/SOP when restraining this machine for References: Work Health & Safety Act & Regulations- | transport. | | | | |
| CRUSHING | CRITICAL 24 | MEDIUM 15 | | | |
| CRUSHING CRITICAL 24 MEDIUM 15 Risk Treatments in Place: Fully Automatic Quick Hitch - Swing Risk Risk Treatments in Place: 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 | | | | | |
| | Risk Treatments in Place: SWMS Loading/Unloading Ensure that all operators follow approved SWMS/SOP when loading and unloading this macilit tray. References: Work Health & Safety Act & Regulations- CRUSHING Risk Treatments in Place: SWMS Load Restraint Ensure that all operators follow the approved SWMS/SOP when restraining this machine for References: Work Health & Safety Act & Regulations- CRUSHING Risk Treatments in Place: SWMS Load Restraint Ensure that all operators follow the approved SWMS/SOP when restraining this machine for References: Work Health & Safety Act & Regulations- CRUSHING 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. T the attachment in the event of a failure of the primary retention system. This hitch must be reoperators are familiar with the safe use of this hitch. | 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 true it tray. References: Work Health & Safety Act & Regulations- Image: CRUSHING HIGH 22 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- Image: CRUSHING CRITICAL 24 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 un the attachment in the event of a failure of the primary retention system. This hitch must be replaced prior to December 31st operators are familiar with the safe use of this hitch. | | | |





| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | | |
|---|--|-----------------------------|--|--|--|
| CRUSHING | CRITICAL 24 | MEDIUM 15 | | | |
| where the manufacturers safety device (usually a pin) has not been engaged after fitting an a treatment relying on the operator to get off the item of plant and manually engage the safety | This item of plant was fitted with a semi-automatic quick hitch prior to April 30th 2014. This type of hitch has been involved in serious incidents where the manufacturers safety device (usually a pin) has not been engaged after fitting an attachment to the hitch. This is an administrative risk treatment relying on the operator to get off the item of plant and manually engage the safety device. Ensure that all operators are familiar with the safe use of this hitch and NEVER use this item of plant with any attachment if the manufacturers quick hitch safety device is not engaged. | | | | |
| | 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 r | ead and be familiar with | | | |
| this handbook prior to operating. A complete risk assessment/Job Safety Analysis must be undertaken covering all operating of plant. SWMS should be produced for specific tasks associated with use of this item of plan | | associated with this item | | | |
| | 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 References: Work Health & Safety Act & Regulations- | all operators prior to operati | ng this Excavator. | | | |
| | | | | | |
| | 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 | ollowed at all times whilst | | | |
| References: Work Health & Safety Act & Regulations- | | | | | |
| | HIGH 22 | MEDIUM 15 | | | |
| Risk Treatments in Place: Control Labels All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to their p maintained in a clean and serviceable condition at all times. | purpose and method of opera | ation. These labels must be | | | |
| References: AS/NZS4024.1905 | 1 | 1 | | | |
| FALLING, CRUSHING | HIGH 22 | MEDIUM 15 | | | |
| Risk Treatments in Place: Passenger Seat Label This item of plant is fitted with a clear hazard warning label re: Operator only, No 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: Quick Hitch Semi Auto Safety System This item of plant is fitted with a semi automatic hydraulic (quick) hitch which is fitted with a r | nechanical safety system. | | | | |
| Hydraulic locking devices MUST not be relied upon as the only source of retention for attachments. Ensure that the mechanical safety system backing-up the hydraulic locking device is present and engaged at all times whilst this item of plant is in operation. | | | | | |
| If at any time this pin is not present then operation must cease until it is replaced. | | | | | |
| References: AS4772, SafeWork NSW- Position Paper | | | | | |

Plant essessor



 Make
 Yanmar

 Model
 VIO55-6B

 Type
 Excavator - Small (0 - 9.9 Tonne)

Serial Number Assessed By Date 61605 Kelly Mira 27-Aug-2020

| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | | | |
|---|--|-----------------------|--|--|--|--|
| | 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 mus 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 | 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. | | | | | |
| | 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 a adhered to strictly. These labels and tables must be present, clear and legible at all times. | approach distances fitted. The | ese distances must be | | | | |
| Spotters are required when working within 5 metres of the minimum approach distance of an | ny live electrical apparatus. | | | | | |
| Any encroach within the minimum approach distances must only occur if the following provis 1. The machine is designed to work within the minimum approach distances 2. Permission has been granted by the electricity company and 3. Safe systems of work have been documented and approved. | ions have been met - | | | | | |
| 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 advice to "Dial 1100 Before You Dig"to the operator work area. This advice must be adhered to strictly. Digging into an electricity cable or gas pipe can cause serious injury or death. Damaging a pipe or cable may also lead to isolating a community from emergency services such as fire, police or ambulance. This label must be present, clear and legible at all times. | | | | | | |
| References: ISO31000 | | | | | | |
| | HIGH 22 | MEDIUM 15 | | | | |
| Risk Treatments in Place: Phone Use label This item of plant is fitted with an instruction label advising that mobile phones must not be 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- | | | | | | |
| INCORRECT OPERATION, CRUSHING | HIGH 22 | HIGH 21 | | | | |
| Risk Treatments in Place: Boom Rated Capacity Label This item of plant has a rated capacity label fitted to each side of the boom. Ensure that these labels are clear and legible at all times whilst this item of plant is in operation. Operators must not exceed this rated capacity at any time during operation. References: AS1418.8 | | | | | | |





| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | |
|---|----------------------------------|----------------------------|--|--|
| V 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 | | | | |
| INCORRECT OPERATION, CRUSHING | HIGH 21 | MEDIUM 15 | | |
| Risk Treatments in Place: Quick Hitch Information This hydraulic quick hitch has the following information marked upon it - | | | | |
| A unique identification mark (serial number) The manufacturer's name and model clearly and durably marked upon it The maximum rated capacity clearly and durably marked upon it The mass of the hitch clearly and durably marked upon it The lift point capacity (kg) clearly and durably marked upon it | | | | |
| This information must be considered by all operators when assessing the suitability of the h this information could lead to serious injury or death. References: AS4772 | itch for any task. Failure to co | nsider and or comply with | | |
| | HIGH 21 | MEDIUM 15 | | |
| Risk Treatments in Place: Swing Boom Crush Label This item of plant has clear hazard warning labels re: pinch point/crush zone, keep clear, th point. These must be present, clear and legible at all times whilst this item of plant is in ope References: AS1319-, AS/NZS4024.1201 | | f the boom swing/pivot | | |
| CRUSHING, POOR SIGNAGE | HIGH 19 | MEDIUM 13 | | |
| Risk Treatments in Place: Boom Lifting Point Table This item of plant has a lifting point fitted to the boom, accordingly a load/distance table is 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 licenced where necessary. | | | | |
| References: AS1418.8 | | | | |
| COLLISION, STRIKING, CRUSHING | 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 and serviceable at all times. | ring, keep clear. It must be pre | esent and fully functional | | |
| References: ISO20474- | | | | |
| CRUSHING | MEDIUM 15 | 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 | | | | |
| | 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: ISO20474-, AS1319- | | | | |
| | | | | |





| | HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | | | |
|------------|--|------------------------------|-------------------------|--|--|--|--|
| | BURNS, ENTANGLEMENT, SHEARING | 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. Peferomene: AS1210 AS/NIZS40241201 | | | | | | |
| | Collision, CRUSHING MEDIUM 12 LOW 6 | | | | | | |
| | Risk Treatments in Place: Warning Device (horn) This item of plant is fitted with a fully functional audible warning device such as a horn. This identifiable by nearby pedestrians. | must be easily accessed by t | ne operator, and easily | | | | |
| | All operators should ensure the warning devices are functional at the start of each shift, by c pre-start checklists. Warning devices should operate automatically where appropriate (eg ret References: ISO7731, ISO9533 | | | | | | |
| | COLLISION | MEDIUM 9 | LOW 5 | | | | |
| | Risk Treatments in Place: Recovery Point Label This item of plant is fitted with a hazard warning label adjacent the recovery tow point which towing instructions before towing". Failure to do so could result in DEATH or SERIOUS INJU | | Read manufacturer's | | | | |
| | References: ISO31000 | 1 | | | | | |
| NCE | | CRITICAL 24 | LOW 1 | | | | |
| COMPLIANCE | 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. | | | | | | |
| 0 | References: AS1418.8 | 1 | | | | | |
| ESIGN (| | HIGH 22 | MEDIUM 15 | | | | |
| DES | Risk Treatments in Place: Hydraulic Hoses This item of plant has hydraulic hoses. These hoses must be inspected each day or before each use for wear and tear. If there are visible signs of wear immediate action must be taken to control the risk arising from this wear. These inspections must be documented. | | | | | | |
| | Hydraulic fluid at high pressure can penetrate the skin, never use any part of your body to check for leaks. If oil penetrates the skin seek medical advice immediately. Always use a piece of cardboard or similar to check for suspected leaks. | | | | | | |
| | Hydraulic pressure can be stored and is a hazard. Before disconnection or connection of hydraulic hoses complete the following steps - | | | | | | |
| | Stop engine Stop engine Stop engine Stop all bystanders clear of the work area Stop all bystanders manual as to methods to release pressure Wait 5 minutes References: AS2671, AS4024 | | | | | | |





| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | |
|---|---|------------------------------|--|--|
| | 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 re a) Must be engaged to allow entry & exit of the machine b) Is not easily bypassed. | 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 | | | |
| This device deactivates the primary operator controls. This must be employed during entry, plant. This device must be fully functional at all times whilst this item of plant is in operation. | exit and while performing mai | ntenance on this item of | | |
| References: ISO10968 | | | | |
| STRIKING, ENTANGLEMENT, COLLISION, CRUSHING | HIGH 22 | MEDIUM 15 | | |
| Risk Treatments in Place: Neutral Start This item of plant has neutral start control in place. It must be fully functional and serviceable | e at all times whilst this item o | 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 item of plant is in operation. | . This device must be fully fur | nctional at all times whilst | | |
| References: AS/NZS4024.1906, AS4772 | | | | |
| | 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 | | | | |
| | HIGH 22 | MEDIUM 15 | | |
| Risk Treatments in Place: Quick Hitch Operation Alarm This item of plant is fitted with a quick hitch with a fully functional audible alarm fitted to the operator work area to alert the operator that the host machine is in the mode that allows for the controls to be operated to engage or disengage attachments. | | | | |
| This alarm must be fully functional at all times whilst this item of plant is in operation. | | | | |
| References: AS4772, ISO7731 | | | | |
| CRUSHING | HIGH 22 | MEDIUM 15 | | |
| Risk Treatments in Place: Movement Awareness Alarm An automatic movement awareness alarm is fitted to this item of plant. This alarm is automatically activated when travel in any direction occurs. It must be fully functional and serviceable at all times whilst this item of plant is in operation. References: ISO7731, ISO9533 | | | | |





| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | |
|--|--------------------------------|-----------------------------|--|--|
| CRUSHING | HIGH 22 | MEDIUM 15 | | |
| Risk Treatments in Place: Quick Hitch - Fully Automatic This item of plant is fitted with a fully automatic hydraulic (quick) hitch (i.e. has hydraulically of controlled safety device as back up) between the excavator arm and attachments. | operated latch as primary rete | ention device and remotely | | |
| This safety device must meet all of the following criteria at all times prior and during operatio | n - | | | |
| Is a mechanical device i.e. not just an indicating system/device Must be intentionally disengaged to remove attachments Is not the primary source of retention of attachments Has means of verifying engagement of the primary retention device from the operator position and Has means of verifying engagement of safety system from operator position | | | | |
| If any of these criteria are not met at any time then operation must cease. | | | | |
| References: AS4772 | | | | |
| ENTANGLEMENT, SHEARING, CRUSHING, BURNS, PINCHING | HIGH 22 | MEDIUM 15 | | |
| Risk Treatments in Place: Safe Operator Location This machine is designed so that the operator is isolated from all danger zones whilst at the whilst this item of plant is in operation. | operator position. This condit | ion must exist at all times | | |
| References: AS/NZS4024.1201 | 1 | 1 | | |
| | 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 | | | | |
| INSTABILITY, TIP OVER, CRUSHING | 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 | | | | |
| | | | | |
| | 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- | | | | |





| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | |
|--|------------------------------|-----------------------------|--|--|
| | HIGH 22 | LOW 2 | | |
| Risk Treatments in Place: Plant Modification | | 1 | | |
| The plant is in original condition. | | | | |
| References: ISO31000 | | | | |
| ENTRAPMENT | HIGH 21 | MEDIUM 15 | | |
| Risk Treatments in Place: Two Operator Exits | | | | |
| The operator cabin/work area on this item of plant has a minimum of two (2) possible exits. whenever the item of plant is manned, whether during operation or maintenance activities. References: AS5327 | These must be functional and | accessible at all times | | |
| References. ASSS27 | | | | |
| | 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 | 1 | | | |
| ROPS FITTED CRUSHING | HIGH 21 | MEDIUM 15 | | |
| Risk Treatments in Place: ROPS A Roll Over Protective Structure (ROPS) to ISO 3471, ISO 12117.1 or 2, AS 2294 or AS 4987 is fitted to this item of plant. A permanent label stating this standard must be attached to the structure at all times. This structure provides a safety envelope during a rollover. A warning label re: wearing of seat belts at all times whilst this item of plant is in operation and accordingly seat belts must be worn at all times during operation. References: AS2294, ISO3471, AS4987 | | | | |
| | | | | |
| CRUSHING | HIGH 21 | LOW 5 | | |
| Risk Treatments in Place: FOPS General This item of plant is fitted with a Level I Falling Objects Protective Structure (FOPS). This structure is designed to protect the operator from small falling objects (e.g. bricks, small concrete blocks, hand tools) | | | | |
| Before operating this item of plant a task based risk assessment must be conducted to determine the level of FOPS required. Level I - withstands 1,365 joules (e.g. 20kgs @ 7m drop, 70kgs @ 2m drop) - operations such as highway maintenance, landscaping and other construction site services Level II - withstands 11,600 joules (e.g. 200kgs @ 6m drop, 394kgs @ 3m drop) - operations such as site clearing, overhead demolition or forestry | | | | |
| This task risk assessment must be undertaken before each operation, in particular when the item of plant is moved to a new location, even if it is within the same site. | | | | |
| References: ISO10262 | | | | |
| | 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 | | | | |





| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | |
|--|---------------------------------|-------------------------------|--|--|
| | HIGH 19 | LOW 5 | | |
| Risk Treatments in Place: Hydraulic Hose Failure Shield This item of plant is fitted with a sturdy, permanent shield(s) between the hydraulic hoses and any body parts of the operator to provide protection during a hose or component failure. This shield(s) must be present and fully functional at all times whilst this item of plant is in operation. References: AS2671, AS4024, ISO4413 | | | | |
| SLIPPING, INCORRECT OPERATION | HIGH 17 | LOW 6 | | |
| Risk Treatments in Place: Control Levers/Pedals/Buttons All controls including all levers, buttons, pedals, switches etc. must be kept non-slip and free References: AS/NZS4024.1901 | from damage at all times. | | | |
| 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 from damage, located at a height so as to not cause undue body stresses and strains with the | | | | |
| All personnel must - 1. Always face the item of plant during access and egress. 2. Always maintain three points of contact during access and egress. 3. Never carry an object(s) in his/her hand(s) during access and egress. 4. Never jump off machine. References: AS5327 | | | | |
| SLIPPING, FALLING | 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 follow 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. | wing - | | | |
| References: ISO31000 | | | | |
| If your cart's ICANYT SEE POOR VISIBILITY, COLLISION | MEDIUM 12 | MEDIUM 11 | | |
| Risk Treatments in Place: Operator Mirror This item of plant is fitted with at least one rear vision mirror. This mirror must be fully function operation. | onal and clean at all times whi | islt this item of plant is in | | |
| References: ISO5006 | | | | |
| 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 wh References: AS/NZS4024.1201 | | | | |





| | HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | | |
|---|---|-----------------------------------|-------------------------------|--|--|--|
| | SLIPPING, INCORRECT OPERATION | MEDIUM 9 | LOW 4 | | | |
| | Risk Treatments in Place: Operator Floor All work area floors are non-slip and free from damage & debris. | | | | | |
| | Floor area must remain non-slip and free from damage & debris, including rubbish, tools and use. | d other items, at all times while | st 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 b References: AS/NZS4024.1401 , ISO20474- | e permanently and securely fi | tted at all times. | | | |
| | 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 op 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 op 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 fully functional and serviceable at all times whilst this item of plant is in operation. References: AS/NZS4024.1201 | and control the risk of initiatin | ng a fire. It must be present | | | |
| NCE | CURRENT OR PREVIOUS STRUCTURAL DAMAGE | CRITICAL 25 | MEDIUM 15 | | | |
| MAINTENANCE | Risk Treatments in Place: Structural Integrity Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc. | | | | | |
| | References: ISO31000 | | | | | |
| Σ | | HIGH 22 | MEDIUM 15 | | | |
| | Risk Treatments in Place: Maintenance Manual The manufacturer's maintenance manual(s) has been supplied for this item of plant | | | | | |
| | These manual(s) must be available at all times to all users and maintenance staff of this item of plant. All users and maintenance staff must read and be familiar with these handbook(s) prior to maintaining or repairing this item of plant. A complete risk assessment/JSEA must be undertaken covering all inspection, maintenance, servicing and transportation requirements of this piece of plant prior to use. | | | | | |
| | | | | | | |
| | A full assessment of the competence of people using the book(s) must also be undertaken References: Work Health & Safety Act & Regulations- | | | | | |
| | | | | | | |
| | | HIGH 22 | MEDIUM 15 | | | |
| | Risk Treatments in Place: Hydraulic Damage The hydraulic hoses to this item of plant are free from damage and protected against damage arising from contact with the plant structure. Ensure that hoses are free from damage and that protection is in place at all times whilst this item of plant is in operation. Inspection of the hydraulic hoses and protection system should be conducted regularly and documented as part of your plant safety programme. References: AS2671, AS4024, ISO4413 | | | | | |





| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating | | |
|---|--|-----------------------|--|--|
| 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 operation. | damage at all times whilst this | s item of plant is in | | |
| References: AS2294, ISO3471 | | | | |
| OPERATIONAL MALFUNCTION | HIGH 22 | LOW 2 | | |
| | 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. | | | |
| OPERATIONAL MALFUNCTION | HIGH 21 | MEDIUM 15 | | |
| Risk Treatments in Place: Service Records Service and maintenance records are available for this item of plant. These records must continue to be maintained and stored in a secure area as part of your plant safety management programme. This programme includes the undertaking of regular inspections concerning the general condition of the item of plant including (but not limited to) tyre condition, oil levels and wear and tear on critical items such as brakes and steering, etc. All OEM prescribed, scheduled and non scheduled maintenance must also be documented as part of these records and attended to within a risk management framework. References: Work Health & Safety Act & Regulations- | | | | |
| POOR VISIBILITY | MEDIUM 9 | LOW 4 | | |
| 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: ISO20474- , AS/NZS4024.1201 | | | | |
| COLLISION, INSTABILITY | MEDIUM 9 | LOW 4 | | |
| Risk Treatments in Place: Tracks The tracks and track components must be inspected as part of a "pre start" checklist. These inspections must be documented as part of your plant safety programme. References: ISO20474- | | | | |
| | | | | |

SECTION 6 IMAGES AND NOTES

IMAGES

- No Images Available -

NOTES

- No Notes Available -







RISK MANAGEMENT REPORT

| ТҮРЕ | Excavator - Small (0 - 9.9 Tonne) | Report Number | BTE 20200820-1237 |
|---------------|--------------------------------------|---------------------|--------------------------------|
| MAKE | Yanmar | Date | 27-Aug-2020 |
| MODEL | VIO55-6B | Created By | Kelly Mira |
| SERIAL NUMBER | 61605 | Assessor | Kelly Mira |
| ENGINE NUMBER | 65224 | Assist. Assessor(s) | DARREN CALDER |
| | | Owner | Tutt Bryant Equipment - NSW |
| | | Customer | DL CIVIL PL |
| | | 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 U | JSE |
|---|-----|
| assessment. | |

My Plant Assessor email is _____





Make Yanmar Model VI055-6B Type Excavator - Small (0 - 9.9 Tonne) Serial Number61605Assessed ByKelly MiraDate27-Aug-2020