RISK MANAGEMENT REPORT

TYPE	Dump Truck - Site
MAKE	Yanmar
MODEL	C12R
SERIAL NUMBER	2C843
ENGINE NUMBER	018475H

TUTT BRYANT EQUIPMENT
A Member of the Tutt Bryant Group

Report Number	BTE 20230626-1426
Date	27-Jun-2023
Created By	Quynh Hong
Assessor	Andrew Fahey
Assist. Assessor(s)	ANDREW FAHEY
Completed By	Breearn Foster
Owner	Tutt Bryant Equipment - NSW
Customer	CMS PLANT HIRE PTY LTD
Assessment Purpose	Sale
State	NSW

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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

SECTION 2 MACHINE DETAILS

MACHINE DETAILS

- NOISE TEST RESULTS	1. Manufacturers specified noise level dBA	
	2. Ambient noise level dBA	
	3. Noise level - Operator position (high idle) dBA	
	4. Noise level - Operator position (low idle) dBA	
	5. Noise level LHS dBA @ m (high idle)	
	6. Noise level Front dBA @ m (high idle)	
	7. Noise level RHS dBA @ m (high idle)	
	8. Noise level Rear dBA @ m (high idle)	
CAPACITIES	Fuel Tank Capacity (Litres)	
	Heaped capacity (m3)	0.48
	Hydraulic Oil Tank Capacity (Litres)	
DIMENSIONS/WEIGHTS	Dump angle (deg)	58
	Height (mm)	1,470
	Length (mm)	2,650
	Loading Height (mm)	920
	Turn circle diameter, outside corner (mm)	2,810
	Unladen weight (kg)	1,010
	Width (mm)	950

	DRIVES	Drive	Tracks
	ENGINE	Engine Displacement (Litres)	0.522
		Engine Hours	
		Engine Make & Model	Yanmar 2 TNE68-EFW
		Engine Number	
		Number of Cylinders	2
		Power (kW@rpm)	7.7@2800
	HYDRAULICS	Hydraulic Oil Flow (l/min)	
		Hydraulic Oil Pressure (Bar)	
	SAFETY STRUCTURES	FOPS Serial No.	
		ROPS Serial No.	
	SPEEDS	Number of speeds, F/R	1/1
	STEERING	Steering system	Skidsteer
	TRANSMISSION	Maximum speed (km/h)	5.5/5.5
		Transmission	HS
	TYRES	Tyre Size	
		Tyres, front/rear	230mm tracks
	WORK CAPABILITIES	Dump speed, raiser/lower (sec)	3.9/2.8
		Gradeability - Degrees/(%)	30
		Payload (kg)	1,150
	EXTRAS	ROPS - Two Post	

SECTION 3 RISK ANALYSIS / RISK EVALUATION

RISK ANALYSIS

LIKELIHOOD \ CONSEQUENCE	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
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

RISK EVALUATION

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.

RISK TREATMENT

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.
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
OPERATION	 **INCORRECT OPERATION**	CRITICAL 24	MEDIUM 15	Immediate	27-Jun-23		
	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- , Occupational Health & Safety Act & Regulations						
	INCORRECT OPERATION, NON COMPLIANCE	HIGH 22	MEDIUM 15	1 Week	4-Jul-23		
	Risk Treatment Required: **Emergency Stop Labelling - Tippers** Ensure the emergency stop(s) fitted to this tipping body are clearly labelled as to the purpose and method of operation. Once achieved these labels must be maintained in a clean and serviceable condition at all times.						
	References: AS/NZS4024.1604						
DESIGN COMPLIANCE	 **POOR VISIBILITY, COLLISION**	HIGH 22	MEDIUM 15	1 Week	4-Jul-23		
	Risk Treatment Required: **Operator Mirrors** At least two (2) operator rear view mirrors must be fitted to this item of plant prior to operation. These mirrors must be ergonomically placed to enable the operator clear view around the item of plant. Once fitted they must be fully functional and correctly maintained 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. Legislation: State Health & Safety Legislation & Regulation.						
	References: AS/NZS4024.1201, ISO14401.1						
	CRUSHING	HIGH 22	LOW 2	1 Week	4-Jul-23		
	Risk Treatment Required: **Hydraulic Load Holding Devices - Tippers** The load carrying cylinders to the tipping body on this item of plant must be fitted with automatic means (e.g. load-holding valves) to prevent uncontrolled movement of the unit in the case of loss of power or hydraulic failure. Once fitted these devices must be present and fully functional at all times whilst this item of plant is in operation.						
	References: AS1418.8						

SECTION 5 RISK TREATMENTS IN PLACE

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

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
DELIVERY	**CRUSHING**	HIGH 22	MEDIUM 15
	Risk Treatments in Place: **SWMS Loading/Unloading** 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		

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
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

OPERATION

INCORRECT OPERATION	HIGH 22	MEDIUM 15

Risk Treatments in Place: **Operation Handbook**
The manufacturer's operation handbook has been supplied for this item of plant.

This handbook must be available at all times to all potential operators and supervisory staff. 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 processes and environments associated with this item of plant. SWMS should be produced for specific tasks associated with use of this item of plant.

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

INCORRECT OPERATION	HIGH 22	MEDIUM 15

Risk Treatments in Place: **Pre-op Checklist Dump Truck - Site**
A pre-operational checklist is available for this Dump Truck - Site. All operators must complete this checklist prior to operating this Dump Truck - Site.

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

INCORRECT OPERATION	HIGH 22	MEDIUM 15

Risk Treatments in Place: **SOP Dump Truck - Site**
Safe Operation Procedures are available for this Dump Truck - Site. The information in the Safe Operation Procedures must be followed at all times whilst operating this Dump Truck - Site.

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

INCORRECT OPERATION	HIGH 22	MEDIUM 15

Risk Treatments in Place: **Control Labels**
All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to their purpose and method of operation. These labels must be maintained in a clean and serviceable condition at all times.

References: AS/NZS4024.1905

CRUSHING, FALLING	HIGH 22	MEDIUM 15

Risk Treatments in Place: **Passenger Seat Label**
This item of plant is fitted with a clear hazard warning label re: Operator only, No passengers. Passengers must not be carried at anytime. This label must be clear and legible at all times whilst this item of plant is in operation.

Legislation: State Health & Safety Legislation & Regulation

References: AS1319-

CRUSHING	HIGH 22	MEDIUM 15

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

References: ISO3471

CRUSHING	HIGH 22	MEDIUM 15

Risk Treatments in Place: **ROPS seat belt label**
This item of plant is fitted with a ROPS and has an advisory label stating that "seatbelts must be worn".
This label must be present, clean and legible at all times.
All operators and passengers must wear seatbelts whilst on this item of plant.

References: AS2294, ISO3471

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
ELECTROCUTION	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Electrical Approach Distances** This item of plant has a hazard warning label re: overhead electrical hazards and minimum approach distances fitted. These distances must be adhered to strictly. These labels and tables must be present, clear and legible at all times. Spotters are required when working within 5 metres of the minimum approach distance of any live electrical apparatus. Any encroach within the minimum approach distances must only occur if the following provisions have been met - 1. The machine is designed to work within the minimum approach distances 2. Permission has been granted by the electricity company and 3. Safe systems of work have been documented and approved.		
References: ISO31000		
COLLISION	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Phone Use label** This item of plant is fitted with an instruction label advising that mobile phones must not be used whilst operating this machine. Accordingly all operators must not use a mobile phone at any time whilst operating machine. If phone use is necessary then operator must place machine in park configuration in a safe position prior to phone use. Operators MUST adhere to this advice at all times. This label must be clear and legible at all times whilst this item of plant is in operation.		
References: AS1319- , ISO31000		
POISONING, EXPLOSION, BURNS	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Tank ID Label** The tank(s) on this item of plant have clear, legible label(s) identifying their contents, and if appropriate any necessary controls re: the contents. These must be present, clear and legible at all times. (this includes radiator, hydraulic and petrol/diesel tanks)		
References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & Regulations		
FIRE	HIGH 21	MEDIUM 15
Risk Treatments in Place: **Fire Extinguisher** This item of plant is fitted with an approved and maintained fire extinguisher. Fire extinguisher(s) must be present and fully functional at all times. They must be readily accessible to the operator. Regular inspections must also be carried out in accordance with the manufacturer's requirements and AS 1851 – 1995		
References: AS1851, AS/NZS1841		
CRUSHING	HIGH 21	MEDIUM 15
Risk Treatments in Place: **Articulated Joint Crush Label** This item of plant has clear hazard warning labels re: crush zone, keep clear, that are attached to each side of the articulated joint. These must be present, clear and legible at all times whilst this item of plant is in operation.		
References: AS/NZS4024.1201, ISO20474-		
HEARING LOSS	HIGH 19	MEDIUM 14
Risk Treatments in Place: **Hearing Protection Label - Bystanders** The hazard warning labels re: wearing of hearing protection for bystanders attached to this item of plant refer to the level of noise produced. Permanent hearing damage will result if hearing protection is not worn. These labels must be present, clear and legible at all times whilst this item of plant is in operation.		
References: AS3781- , AS/NZS1269		
HEARING LOSS	HIGH 19	MEDIUM 14
Risk Treatments in Place: **Hearing Protection Label - Operator** The hazard warning label(s) re: wearing of hearing protection attached to this item of plant refer to the level of noise produced. Permanent hearing damage will result if hearing protection is not worn. These labels must be present, clear and legible at all times whilst this item of plant is in operation.		
References: AS3781- , AS/NZS1269		

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
ENTANGLEMENT, SHEARING, BURNS	MEDIUM 14	MEDIUM 13

Risk Treatments in Place: **Engine Guard Label**
The engine fan and alternator belts, pulleys and gears are guarded. These guards have clear legible hazard warning labels re do not open or remove guards while engine is running. These labels must be present, legible and easily seen at all times whilst this item of plant is in operation.

References: AS/NZS4024.1201, AS1319-

CRUSHING, COLLISION	MEDIUM 12	LOW 6

Risk Treatments in Place: **Warning Device (horn)**
This item of plant is fitted with a fully functional audible warning device such as a horn. This must be easily accessed by the operator, and easily identifiable by nearby pedestrians.

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

References: ISO7731, ISO9533

BURNS	MEDIUM 12	MEDIUM 12

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

References: ISO31000

DESIGN COMPLIANCE

CRUSHING, COLLISION	CRITICAL 24	MEDIUM 15

Risk Treatments in Place: **Park Brake**
This item of plant is fitted with a fully functional park (hand) brake which meets the following requirements –
1. Is separate to the service brakes
2. Has a device which maintains the brake in the on position until intentionally disengaged &
3. Requires at least two separate and distinct movements to disengage the park brake.

The park brake must be regularly inspected and tested. These inspections and tests must be documented as part of your plant safety programme.

References: AS2958

STRIKING, BURNS	HIGH 22	MEDIUM 15

Risk Treatments in Place: **Hydraulic Hoses**
This item of plant has hydraulic hoses. These hoses must be inspected each day or before each use for wear and tear. If there are visible signs of wear immediate action must be taken to control the risk arising from this wear. These inspections must be documented.

Hydraulic fluid at high pressure can penetrate the skin, never use any part of your body to check for leaks. If oil penetrates the skin seek medical advice immediately. Always use a piece of cardboard or similar to check for suspected leaks.

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

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

References: AS4024, AS2671

CRUSHING, COLLISION	HIGH 22	MEDIUM 15

Risk Treatments in Place: **Hold To Run Tipping Body Controls**
The tipping body controls are the "hold to run" type.
Operators and maintenance staff MUST NEVER attempt to bypass this important safety feature. Failure to comply with this instruction may lead to serious injury or death.

References: AS1418.8

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
CRUSHING, NON COMPLIANCE	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Emergency Stop Device - Tippers** This tipping body has an emergency stop device located adjacent the tipping controls. The emergency stop must meet all of the following criteria whilst this item of plant is in operation. 1. Is operational 2. Is coloured red with yellow background 3. Is easily accessible to the operator at all times whilst operating this item of plant 4. Actuation of the emergency stop only eliminates the power source to the tipping hoist 5. Resetting of emergency stop does not automatically restart the tipping hoist		
References: AS1418.8, AS/NZS4024.1604		
CRUSHING, COLLISION	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Loose Items - Operator Work Area** All items that could cause harm to the operator in the event of a collision or rollover are securely restrained.		
References: ISO31000		
CRUSHING, ENTANGLEMENT, STRIKING, COLLISION	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Neutral Start** This item of plant has neutral start control in place. It must be fully functional and serviceable at all times whilst this item of plant is in operation.		
References: AS4024.1603		
CRUSHING	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Seat Belt** This item of plant is fitted with an operator seat belt. This seat belt must be free from damage, and permanently and sturdily attached at all times whilst this item of plant is in operation. Operators must use this seat belt at all times during operation.		
References: ISO6683		
CRUSHING	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Earthmoving ROPS** A Roll Over Protective Structure (ROPS) to AS 2294, ISO 3471, ISO 12117.1 or 2 or SAE J1040 is fitted to this item of plant. A permanent label stating this standard must be attached to the structure at all times. It must also carry 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		
STRIKING, BURNS	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Hydraulic Hose Failure Shield** This item of plant is fitted with a sturdy, permanent shield(s) between the hydraulic hoses and any body parts of the operator to provide protection during a hose or component failure. This shield(s) must be present and fully functional at all times whilst this item of plant is in operation.		
References: AS4024, ISO4413, AS2671		
CRUSHING, COLLISION	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Reverse Movement Alarm** A reverse movement sensor alarm is fitted to this item of plant. It must be fully functional and serviceable at all times whilst this item of plant is in operation.		
References: ISO7731, ISO9533		
CRUSHING, ENTANGLEMENT, SHEARING, BURNS, PINCHING	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Safe Operator Location** This machine is designed so that the operator is isolated from all danger zones whilst at the operator position. This condition must exist at all times whilst this item of plant is in operation.		
References: AS/NZS4024.1201		

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
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		
CRUSHING	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Tipping Body Prop** The tipping body on this item of plant is fitted with a mechanical safety support and instruction label. These must be fully functional and serviceable at all times. The support must be used when accessing the area under the tipping body for maintenance or any other purpose.		
References: AS1418.8		
COLLISION	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Beacon** This item of plant is fitted with a safety beacon. This beacon must meet the following criteria at all times whilst this item of plant fitted is in operation - - Is visible up to 200m in all directions (allowing for intermittent obstruction from the plant structure whilst the plant is in operation) - Is fitted in the most appropriate location on machine to maximise visibility without risking continual damage NOTE: more than one beacon may be fitted to meet these criteria.		
References: ISO20474-		
OPERATIONAL MALFUNCTION	HIGH 22	LOW 2
Risk Treatments in Place: **Plant Modification** The plant is in original condition.		
References: ISO31000		
INCORRECT OPERATION	HIGH 20	MEDIUM 14
Risk Treatments in Place: **Intuitive Controls** The controls fitted to this item of plant are orientated so that the movement of the control is consistent with the action of the machine e.g. moving a control lever to the left results in the machine turning to the left. This design feature must be maintained at all times whilst this item of plant is in operation.		
References: AS/NZS4024.1906		
STRAINS	HIGH 19	LOW 5
Risk Treatments in Place: **Controls Ergonomics** All controls including all levers, buttons, pedals, switches etc, are placed near the operator work position and are easy to reach and operate during the execution of the operator's normal duties. This applies for all persons within the 95th percentile of the normal population distribution.		
References: AS/NZS4024.1901		
INCORRECT OPERATION, SLIPPING	HIGH 17	LOW 6
Risk Treatments in Place: **Control Levers/Pedals/Buttons** All controls including all levers, buttons, pedals, switches etc. must be kept non-slip and free from damage at all times.		
References: AS/NZS4024.1901		

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
SLIPPING	MEDIUM 12	LOW 6

Risk Treatments in Place: **Operator Work Area Access/Egress**

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

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

References: AS5327

FALLING, SLIPPING	MEDIUM 12	LOW 6

Risk Treatments in Place: **Access/Egress Instruction Label**

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

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

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

References: ISO31000

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.

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 permanent sturdy cover which allows for ventilation. The constraint and cover must be present and fully functional and serviceable at all times whilst this item of plant is in operation.

References: AS/NZS4024.1201

INCORRECT OPERATION, SLIPPING	MEDIUM 9	LOW 4

Risk Treatments in Place: **Work Area Floors**

All work area floors are non-slip and free from damage & debris.

Floor area must remain non-slip and free from damage & debris, including rubbish, tools and other items, at all times whilst this item of plant is in use.

References: AS/NZS4024.1201, ISO20474-

STRAINS	MEDIUM 9	LOW 1

Risk Treatments in Place: **Operator Seat**

The operator seat fitted to this item of plant must remain free from damage and tears, and be permanently and securely fitted at all times.

References: AS/NZS4024.1401 , ISO20474-

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 **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		
 **CRUSHING, COLLISION**	CRITICAL 25	MEDIUM 15
Risk Treatments in Place: **Brakes** The brakes fitted to this item of plant must be fully functional at all times whilst this item of plant is in operation. The brakes must be regularly inspected and tested. These inspections and tests must be documented as part of your plant safety programme.		
References: AS2958		
 **CURRENT OR PREVIOUS STRUCTURAL DAMAGE**	CRITICAL 25	MEDIUM 15
Risk Treatments in Place: **Structural Integrity** Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc.		
References: ISO31000		
 **INCORRECT OPERATION**	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Maintenance Manual** The manufacturer's maintenance manual(s) has been supplied for this item of plant These manual(s) must be available at all times to all users and maintenance staff of this item of plant. All users and maintenance staff must read and be familiar with these handbook(s) prior to maintaining or repairing this item of plant. A complete risk assessment/JSEA must be undertaken covering all inspection, maintenance, servicing and transportation requirements of this piece of plant prior to use. A full assessment of the competence of people using the book(s) must also be undertaken		
References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & Regulations		
 **STRIKING, BURNS**	HIGH 22	MEDIUM 15
Risk Treatments in Place: **Hydraulic Damage** The hydraulic hoses to this item of plant are free from damage and protected against damage arising from contact with the plant structure. Ensure that hoses are free from damage and that protection is in place at all times whilst this item of plant is in operation. Inspection of the hydraulic hoses and protection system should be conducted regularly and documented as part of your plant safety programme.		
References: AS4024, ISO4413, AS2671		
 **CRUSHING**	HIGH 22	MEDIUM 15
Risk Treatments in Place: **ROPS Damage** The Roll Over Protective Structure (ROPS) fitted to this item of plant must remain free from damage at all times whilst this item of plant is in operation.		
References: AS2294, ISO3471		
 **OPERATIONAL MALFUNCTION**	HIGH 22	LOW 2
Risk Treatments in Place: **Major Fluid Leaks** This item of plant must remain free from leaks at all times whilst in operation (this includes engine, transmission, cooling system, air, fuel, drive line, wheel hubs, steering and hydraulics). Development of a major leak will require this item of plant to be stood-down until repaired. Minor leaks detected must be repaired within 1-14 days.		
References: ISO31000		

MAINTENANCE

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
OPERATIONAL MALFUNCTION	HIGH 21	MEDIUM 15
Risk Treatments in Place: **Service Records** Service and maintenance records are available for this item of plant. These records must continue to be managed and available at all times as part of your service and maintenance programme. (This programme includes the undertaking of regular inspections of the item of plant with specific reference to all OEM prescribed, scheduled and non scheduled service and maintenance requirements).		
References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & Regulations		
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

TYPE	Dump Truck - Site	**Report Number**	BTE 20230626-1426
MAKE	Yanmar	**Date**	27-Jun-2023
MODEL	C12R	**Created By**	Quynh Hong
SERIAL NUMBER	2C843	**Assessor**	Andrew Fahey
ENGINE NUMBER	018475H	**Assist. Assessor(s)**	ANDREW FAHEY
		Owner	Tutt Bryant Equipment - NSW
		Customer	CMS PLANT HIRE 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 _____