

RISK MANAGEMENT REPORT

TYPE	Excavator - Large (20 Tonne +)
MAKE	Case
MODEL	CX220C
ENGINE NUMBER	4HK1-847960
CHASSIS / VIN	DCH220D6NNEFJ1326
Report Number	PAES 20231113-1017
Date	13-Nov-2023
Created By	Bree Irwin
Assessor	Bree Irwin
Assist. Assessor(s)	
Completed By	Bree Irwin
Owner	Earthmoving Equipment Australia
Customer Name	CMS Landscape & Paving Pty Ltd
Assessment Purpose	Sale
State	NSW

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SECTION 6	IMAGES AND NOTES Contains images & any relevant information entered by the assessor





Engine Number Assessed By Date

SECTION 1 IMPORTANT INFORMATION

This report generated by Plant Assessor™ © Online Safety Systems on Monday, 13 Nov 2023 10:35 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	
ETAII	- NOISE TEST RESULTS	4. Noise level - Operator position (low idle) dBA	
	- NOISE LEST 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)	
		8. Noise level Rear dBA @ m (high idle)	
프	BUCKET	Standard bucket capacity, SAE rated (m3)	
	BUCKET	Standard bucket width (mm)	
MACHIN	CAPACITIES	Fuel Tank Capacity (Litres)	
		Dig depth to cut 2.44 m level bottom (mm)	
		Digging depth (mm)	7152 mm
		Dump height (mm)	6999 mm
	DIMENSIONS/WEIGHTS	Ground clearance (mm)	
		Max depth of vertical wall (mm)	4946 mm
		Maximum Reach Height (mm)	
		Operating weight (kg)	22,556 kg





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	Tailswing radius (mm)	3.364 mm
	Transport Height (mm)	
	Transport Length (mm)	
	Width (mm)	
	Engine Displacement (Litres)	(6.7L)
	Engine Hours	
ENGINE	Engine Make & Model	
ENGINE	Engine Number	
	Engine Power (kW@rpm)	
	Number of Cylinders	
EXTRAS	Spare spool for attachments? Yes/No	
	Quick Hitch Make	
HITCH	Quick Hitch Model	
	Quick Hitch Serial No.	
	Flow of main pumps (L/Min)	20 L/min
HYDRAULICS	Hydraulic Oil Reservoir Capacity (Litres)	
HIDRAULICS	Pump Types	
	Relief valve pressure, main pumps (Bar)	
PLANT CLASSIFICATIONS	Class	
FEANT CEASSIFICATIONS	Year	
	FOPS Compliance No.	
SAFETY STRUCTURES	FOPS Serial No.	
SALETT STRUCTURES	ROPS Compliance No.	
	ROPS Serial No.	
TRACKS	Track length on ground (mm)	
INACKS	Track pad width (mm)	
TRANSMISSION	Speed (km/h)	
	Arm breakout (kgf)	
WORK CAPABILITIES	Bucket breakout (kgf)	
WORK CAPABIEITIES	Gradeability - Degrees/(%)	
	Reach @ ground level (mm)	
	Air Conditioning	
EXTRAS	FOPS	
EATRAS	Hitch - Tilt	
	ROPS - Cabin	





SECTION 3 RISK ANALYSIS / RISK EVALUATION

RI	RISK ANALYSIS						
	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	

	LUATION	CRITICAL	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below.
	RISK EVA	HIGH	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below. If the appropriate risk treatments are not immediately accessible establish interim risk treatment strategies. Permanent risk treatments must be implemented within one week.
		MEDIUM	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within one month.
		LOW	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within three months.

RISKTREATMENT

EATMENT		st appropriate risk treatment option involves balancing the costs and efforts of implementation against the benefits ard 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 tas		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	NOMINATED OPERATOR ONLY	CRITICAL 24	MEDIUM 15	Immediate	13-Nov-23		
ERATI	Risk Treatment Required: Operator Compe Only persons who are qualified, trained and expe competent/licensed person available for operatio	rienced and/or hold th					
OP	operate this item of plant.	·	nen only persons wh	o are supervise		ennicenseu pe	erson can
Δ.		·	nen only persons wh	are supervise		ent/licenseu pe	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		
DELIVERY	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 References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act &	•			
LION	INCORRECT OPERATION	HIGH 22	MEDIUM 15		
OPERATION	Risk Treatments in Place: Operation Handbook The manufacturer's operation handbook has been supplied for this item of plant.				
Ğ	This handbook must be available at all times to all potential operators and supervisory staff. this handbook prior to operating.	All potential operators must re	ead and be familiar with		
	A complete risk assessment/Job Safety Analysis must be undertaken covering all operating processes and environments associated with this item of plant. SWMS should be produced for specific tasks associated with use of this item of plant.				
	References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act &	& Regulations			
		HIGH 22	MEDIUM 15		
	Risk Treatments in Place: Pre-op Checklist Excavator A pre-operation checklist is available for this Excavator. This checklist must be completed by	all operators prior to operatir	ng this Excavator.		
	References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations			





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HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating				
	HIGH 22	MEDIUM 15				
Risk Treatments in Place: SOP Excavator Safe Operation Procedures are available for this Excavator. The information in the Safe Operation Procedures must be followed at all times whilst operating this Excavator.						
References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations					
	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.	ourpose and method of opera	tion. These labels must be				
References: AS/NZS4024.1905	1					
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. Legislation: State Health & Safety Legislation & Regulation References: AS1319-	s. Passengers must not be ca	rried at anytime. This label				
	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 at all times.	rill holes and welds) must be	present, clean and legible				
References: ISO3471	r	r				
	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	t be worn".	`				
References. A32294, 1303471						
	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	y 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: Before You Dig (AUS) This item of plant is fitted with a clear hazard warning label re: underground services and advice "Before You Dig, visit www.byda.com.au" 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						





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HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating			
	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 a These must be present, clear and legible at all times. (this includes radiator, hydraulic and po	etrol/diesel tanks)	ntrols re: the contents.			
References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations	1			
	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 extinguished They must be readily accessible to the operator. Regular inspections must also be carried out and AS 1851 – 1995					
References: AS10896.1, AS1851					
	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 hit this information could lead to serious injury or death.	tch for any task. Failure to co	nsider and or comply with			
References: AS4772	1	1			
INSTABILITY, CRUSHING	HIGH 21	MEDIUM 15			
Risk Treatments in Place: Boom Rated Capacity Label This item of plant has a rated capacity label fitted to each side of the boom. Ensure that these labels are clear and legible at all times whilst this item of plant is in operation. Operators must not exceed this rated capacity at any time during operation.					
References: AS1418.8					
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					





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	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
O	HEARING LOSS	HIGH 19	MEDIUM 14
The hazard damage will	ments in Place: Hearing Protection Label - Operator warning label(s) re: wearing of hearing protection attached to this item of plant r result if hearing protection is not worn. These labels must be present, clear and		
Reference	s: AS3781- , AS/NZS1269		
	CRUSHING, STRIKING, COLLISION	HIGH 19	MEDIUM 14
The rear of t	ments in Place: Tail Swing Label his item of plant has a hazard warning label re: general plant movement, tail sw able at all times.	ving, keep clear. It must be pre	esent and fully functional
Reference	s: ISO20474-		
00	ENTANGLEMENT, SHEARING, BURNS	MEDIUM 14	MEDIUM 13
The engine remove gua	ments in Place: Engine Guard Label fan and alternator belts, pulleys and gears are guarded. These guards have cle rds while engine is running. These labels must be present, legible and easily se		
Reference	s: AS/NZS4024.1201, AS1319-		
	CRUSHING, COLLISION	MEDIUM 12	LOW 6
identifiable to All operators pre-start che	plant is fitted with a fully functional audible warning device such as a horn. This by nearby pedestrians. Is should ensure the warning devices are functional at the start of each shift, by ecklists. Warning devices should operate automatically where appropriate (eg re s: ISO7731, ISO9533	completing	
~			
	COLLISION	MEDIUM 9	LOW 5
This item of towing instru This label m	COLLISION ments in Place: Recovery Point Label plant is fitted with a hazard warning label adjacent the recovery tow point which ictions before towing". Failure to do so could result in DEATH or SERIOUS INJU ust be clear and legible at all times whilst this item of plant is in operation. s: ISO31000	states "Recovery tow point –	
This item of towing instru This label m	ments in Place: Recovery Point Label plant is fitted with a hazard warning label adjacent the recovery tow point which actions before towing". Failure to do so could result in DEATH or SERIOUS INJU ust be clear and legible at all times whilst this item of plant is in operation.	states "Recovery tow point –	





HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
STRIKING, BURNS	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Hydraulic Hoses This item of plant has hydraulic hoses. These hoses must be inspected each day or before each use for wear and tear. If there are visible signs of wear immediate action must be taken to control the risk arising from this wear. These inspections must be documented.				
	Hydraulic fluid at high pressure can penetrate the skin, never use any part of your body to check for leaks. If oil penetrates the skin seek medical advice immediately. Always use a piece of cardboard or similar to check for suspected leaks.			
Hydraulic pressure can be stored and is a hazard. Before disconnection or connection of hyd	draulic hoses complete the fo	llowing steps -		
 Stop engine Keep all bystanders clear of the work area Refer to operators manual as to methods to release pressure 				
4. Wait 5 minutes				
References: AS4024, AS2671				
	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Loose Items - Operator Work Area All items that could cause harm to the operator in the event of a collision or rollover are secu	irely restrained.			
References: ISO31000	1			
	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	equirements -			
a) Must be engaged to allow entry & exit of the machine				
b) Is not easily bypassed.				
This device deactivates the primary operator controls. This must be employed during entry, e	evit and while performing mai	ntenance on this item of		
plant.	exit and while performing that			
This device must be fully functional at all times whilst this item of plant is in operation.				
References: ISO10968				
CRUSHING, ENTANGLEMENT, STRIKING, COLLISION	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Neutral Start	1			
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	f plant is in operation.		
References: AS4024.1603				
CRUSHING	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Quick Hitch Controls The quick hitch operation control fitted with a device/method to prevent accidental operation. This device must be fully functional at all times whilst this item of plant is in operation.				
References: AS4772, AS/NZS4024.1906				
	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				
POOR VISIBILITY, COLLISION	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Operator Mirrors				
The operator rear view mirrors fitted to this item of plant must be fully functional and kept clean at all times. There must always be at least one mirror				
on each side to provide rear vision to the operator to avoid striking bystanders and objects.				
References: AS/NZS4024.1201, ISO14401.1				





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HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
CRUSHING	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Quick Hitch Operation Alarm This item of plant is fitted with a quick hitch with a fully functional audible alarm fitted to the operator work area to alert the operator that the host machine is in the mode that allows for the controls to be operated to engage or disengage attachments.				
This alarm must be fully functional at all times whilst this item of plant is in operation. References: AS4772, ISO7731				
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 automa must be fully functional and serviceable at all times whilst this item of plant is in operation.	tically activated when travel in	n any direction occurs. It		
References: ISO7731, ISO9533	1	1		
	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Quick Hitch - Fully Automatic	1			
This item of plant is fitted with a fully automatic hydraulic (quick) hitch (i.e. has hydraulically controlled safety device as back up) between the excavator arm and attachments.	operated latch as primary rete	ention device and remotely		
This safety device must meet all of the following criteria at all times prior and during operation	n -			
1. 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 				
4. Has means of verifying engagement of the primary retention device from the operator pos	ition and			
5. Has means of verifying engagement of safety system from operator position				
If any of these criteria are not met at any time then operation must cease.				
References: AS4772				
	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	times whilst this item of plant	is in operation.		
References: AS4024, ISO4413, AS2671	1			
POOR VISIBILITY, COLLISION	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Machine Lights				
This item of plant is fitted with self contained lighting. All of these lights must be fully functional and serviceable whilst this item of plant is in operation in areas of reduced light. If any of these lights stop working the operation must cease immediately and the faulty light be repaired before operation can continue in the areas of reduced light.				
References: ISO20474-				
	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Forestry OPG				
This item of plant is fitted with an Operator Protective Guard (OPG = Devices intended to pro-				
operator station e.g heavy duty mesh). This guard must be present and fully functional at all times whilst his item of plant is in operation. If the OPG				
is damaged all forestry operations must cease until the guard is either repaired or certified safe for use by a competent person.				
References: AS2294, ISO3449, ISO3471				
	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Engine Guards				
The engine fan and alternator belts, pulleys and gears are guarded. These guards must be present and fully functional and serviceable at all times whilst this item of plant is in operation.				
References: AS/NZS4024.1601				





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HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
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.				
FALLING	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Handrails All operator work platforms are either - a) above 0.5m and below 2.0m from the ground or nearest platform and have three points of contact which can be constantly maintained by any person on the platform performing expected tasks or b) are above 2.0m from the ground or nearest platform and have an approved guardrail which meets the following requirements: 1. All guardrails are at least 1.1m high 2. All guardrails have a mid rail 3. All sides and ends have a kick plate which is at least 100mm high. These work platforms and/or access points must have guardrails present that are fully functional and serviceable at all times whilst this item of plant is in operation.				
References: AS5327				
COLLISION	HIGH 22	MEDIUM 15		
This item of plant is fitted with a safety beacon. This beacon must meet the following criteria - Is visible up to 200m in all directions (allowing for intermittent obstruction from the plant str - Is fitted in the most appropriate location on machine to maximise visibility without risking controls NOTE: more than one beacon may be fitted to meet these criteria. References: ISO20474-	ucture whilst the plant is in op			
	HIGH 22	LOW 2		
Risk Treatments in Place: Plant Modification The plant is in original condition. References: ISO31000	1			
ENTRAPMENT	HIGH 21	MEDIUM 15		
Risk Treatments in Place: Two Operator Exits The operator cabin/work area on this item of plant has a minimum of two (2) possible exits. These must be functional and accessible at all times whenever the item of plant is manned, whether during operation or maintenance activities. References: AS5327				
ENTRAPMENT	HIGH 21	MEDIUM 15		
Risk Treatments in Place: Emergency Exits The emergency exits for this item of plant meet the following requirements - 1. Clearly and legibly labelled 2. Instructions for use are clear and legible and located adjacent the exit 3. Any required tools required for use are available e.g. Emergency hammers				
These exits must be legibly labelled and fully functional at all times whenever the item of plant is manned, whether during operation or maintenance activities. References: ISO31000				





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HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
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 t	imes.			
References: AS/NZS4024.1201				
ROPS FITTED CRUSHING	HIGH 21	MEDIUM 15		
Risk Treatments in Place: ROPS A Roll Over Protective Structure (ROPS) to ISO 3471, ISO 12117.1 or 2, AS 2294 or AS 4987 is fitted to this item of plant. A permanent label stating this standard must be attached to the structure at all times. This structure provides a safety envelope during a rollover. A warning label re: wearing of seat belts at all times whilst this item of plant is in operation and accordingly seat belts must be worn at all times during operation.				
References: AS2294, ISO3471				
CRUSHING	HIGH 21	LOW 5		
Risk Treatments in Place: FOPS General This item of plant is fitted with a Level I Falling Objects Protective Structure (FOPS). This str falling objects (e.g. bricks, small concrete blocks, hand tools)	<u> </u>			
Before operating this item of plant a task based risk assessment must be conducted to deter Level I - withstands 1,365 joules (e.g. 20kgs @ 7m drop, 70kgs @ 2m drop) - operations such as highway maintenance, landscaping and other construction site service Level II - withstands 11,600 joules (e.g. 200kgs @ 6m drop, 394kgs @ 3m drop) - operations such as site clearing, overhead demolition or forestry		red.		
This task risk assessment must be undertaken before each operation, in particular when the within the same site.	item of plant is moved to a ne	ew location, even if it is		
References: ISO10262				
	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 str falling objects (e.g. trees, rocks). Care should still be exercised when operating in an area w	• ·	the operator from heavy		
References: AS2294, ISO3449, 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				
	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.				
 Never carry an object(s) in his/her hand(s) during access and egress. 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 follo	owing -			
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 wh				
free from damage, located at a height so as to not cause undue body stresses and strains times.	with three points of contact ava	ailable to personnel at all		
unies.				
All personnel must -				
1. 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. 				
4. Never jump off machine.				
References: AS5327				
BATTERY				
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				
The constraint and cover must be present and fully functional and serviceable at all times w References: AS/NZS4024.1201	niist this item of plant is in ope	eration.		
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-				
	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-				





Engine Number Assessed By Date

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	
	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.	and control the risk of initiatir	ng a fire. It must be present	
	References: AS/NZS4024.1201			
NCE	CURRENT OR PREVIOUS STRUCTURAL DAMAGE	CRITICAL 25	MEDIUM 15	
MAINTENANC	Risk Treatments in Place: Structural Integrity Regular checks for structural damage must be undertaken. Look for cracks in frames/chassi components, etc.	s (current or repaired), bends	or damage to structural	
	References: ISO31000			
MA	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 reactive 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 prior fo 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 Image: Striking, BURNS HIGH 22			
	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. E 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 hydrauli and protection system should be conducted regularly and documented as part of your plant safety programme. References: AS4024, ISO4413, AS2671			
		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			
		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 lin 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			





Engine Number Assessed By Date

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rat
	OPERATIONAL MALFUNCTION	HIGH 21	MEDIUM 15
Risk Trea	tments in Place: Service Records)	
Service an	d maintenance records are available for this item of plant.		
These reco	ords must continue to be managed and available at all times as part of your servic	e and maintenance programr	ne. (This programme
includes th	e undertaking of regular inspections of the item of plant with specific reference to	all OEM prescribed, schedule	ed and non scheduled
service and	d maintenance requirements).		
Referenc	es: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations	
*	POOR VISIBILITY, COLLISION	HIGH 21	MEDIUM 15
	tments in Place: Windows & Screens		
Ensure the plant is in u	cabin/work area safety glass windows and screens are kept clean and free from use.	cracks and other damage at a	all times whilst this item
Referenc	es: AS/NZS4024.1201, ISO20474-		
. 36	INSTABILITY	MEDIUM 9	LOW 4
X			
Risk Trea	tments in Place: Tracks		
	and track components must be inspected as part of a "pre start" checklist. These	inspections must be docume	nted as part of your pla

IMAGES

- No Images Available -

NOTES

- No Notes Available -







RISK MANAGEMENT REPORT

ТҮРЕ	Excavator - Large (20 Tonne +)	Report Number	PAES 20231113-1017
MAKE	Case	Date	13-Nov-2023
MODEL	CX220C	Created By	Bree Irwin
ENGINE NUMBER	4HK1-847960	Assessor	Bree Irwin
CHASSIS / VIN	DCH220D6NNEFJ1326	Assist. Assessor(s)	
		Owner	Earthmoving Equipment Australia
		Customer Name	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 _____





 Make
 Case

 Model
 CX220C

 Type
 Excavator - Large (20 Tonne +)

Engine Number Assessed By Date