

RISK MANAGEMENT REPORT

TYPE	Loader, Wheel	
MAKE	JCB	ANC
MODEL	409B ZX	G
CHASSIS / VIN	3056049	
Report Number	12098 20230227-1425	
Date	27-Feb-2023	
Created By	Mick Monaghan	
Assessor	Mick Monaghan	
Assist. Assessor(s)		
Completed By	Mick Monaghan	
Owner	JCB Ballarat	
Assessment Purpose	Sale	
State	VIC	

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SECTION 4	RISK TREATMENTS REQUIRED Contains detailed information regarding the risk treatments to be implemented including hazard, risk rating, time frame, relevant standards & legislative references
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SECTION 6	IMAGES AND NOTES Contains images & any relevant information entered by the assessor





SECTION 1 IMPORTANT INFORMATION

This report generated by Plant Assessor™ © Online Safety Systems on Monday, 27 Feb 2023 2:36 PM

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

		1. Manufacturers specified noise level dBA	
N N		2. Ambient noise level dBA	
∣₹∣		3. Noise level - Operator position (high idle) dBA	
ETAIL	- 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)	
44		7. Noise level RHS dBA @ m (high idle)	
≦		8. Noise level Rear dBA @ m (high idle)	
프	BODY TYPE	Articulated/Rigid	A
		Articulation, either side (deg)	40
MACHINE	BRAKES	Brake Types	HS & Dry Disc
	DUCKET	Bucket link type	Z-bar
	BUCKET	Bucket width (mm)	1,845
	CAPACITIES	Bucket capacities, min-max (m3)	0.9
	CAPACITIES	Fuel Tank Capacity	
		Dump height, bucket @ 45° discharge (mm)	2,512
	DIMENSIONS/WEIGHTS	Dump reach bucket @ 45° discharge (mm)	1,271
		Ground clearance (mm)	411





MakeJCBModel409B ZXTypeLoader, Wheel

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	Height to top of cab (mm)	2.663
	Length, incl bucket (mm)	5.003
	Operating weight (kg)	5,250
	Static tip load, full turn (kg)	3,600
	Turn circle diameter (mm)	8,020
	Wheelbase (mm)	2,000
	Width w\o bucket (mm)	1,845
	Engine Displacement (Litres)	4
	Engine Hours	
	Engine Make & Model	Perkins 1004, 3.99T
ENGINE	Engine Number	
	Engine Power (kW@rpm)	57.5@2200
	Engine Power kW/(Hp)	
	Number of Cylinders	4
	Hydraulic Oil Flow (I/min)	
HYDRAULICS	Hydraulic Oil Pressure (Bar)	
	Hydraulic Oil Reservoir Capacity (Litres)	
OPERATING SYSTEMS	Ride control system: Std\opt\Not available	Opt
PLANT CLASSIFICATIONS	Class	ERG Class WL4: Net engine pwr >45 kW <=59 kW
	Year	2003 - 2006
	FOPS Compliance No.	
	FOPS Serial No.	
SAFETY STRUCTURES	ROPS Compliance No.	
	ROPS Serial No.	
	Maximum speed, Fwd\ Rev (km\h)	20
TRANSMISSION	Speeds F/R	L&H
	Transmission	HS
TYRES	Tyres	12.5 x 20
WORK CAPABILITIES	Bucket breakout force (kgf)	4,915
WORK CAPADILITIES	Operating cap (SWL) kg - 50% of STL @ full turn	1,800
	Air Conditioning	
EXTRAS	FOPS	
	ROPS - Cabin	





Chassis / VIN Assessed By Date

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	
Ļ	B. Likely to occur frequently	MEDIUM 7	MEDIUM 10	HIGH 17	HIGH 20	CRITICAL 24	
	C. Possibly and likely to occur at sometime	LOW 3	MEDIUM 9	MEDIUM 12	HIGH 19	HIGH 22	
	D. Unlikely to occur but could happen	LOW 2	LOW 5	MEDIUM 11	MEDIUM 14	HIGH 21	
	E. May occur but only in rare circumstances	LOW 1	LOW 4	LOW 6	MEDIUM 13	MEDIUM 15	

LUATION	CRITICAL	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below.
HIGH If the appropriate risk treatme		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.
C	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 treatments must be implemented within three months.

RISKTRFATMENT

RISKTREATMENT	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.		
RISKI	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.		





MakeJCBModel409B ZXTypeLoader, Wheel

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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
OFOTION				-		

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				
	Ensure that a	nents in Place: SWMS Load Restraint all operators follow the approved SWMS/SOP when restraining this machine for						
	References	Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations					
NOL		INCORRECT OPERATION	CRITICAL 24	MEDIUM 15				
OPERATION	Only persons competent/lic operate this i	Risk Treatments in Place: 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. References: Work Health & Safety Act & Regulations-, Occupational Health & Safety Act & Regulations						
_								
		INCORRECT OPERATION	HIGH 22	MEDIUM 15				
	The manufac	nents in Place: Operation Handbook turer's operation handbook has been supplied for this item of plant.						
	The manufac	nents in Place: Operation Handbook						
	The manufac This handboo this handboo A complete ri	nents in Place: Operation Handbook turer's operation handbook has been supplied for this item of plant. ok must be available at all times to all potential operators and supervisory staff.	All potential operators must r processes and environments	ead and be familiar with				
	The manufac This handboo this handboo A complete ri plant. SWMS	nents in Place: Operation Handbook turer's operation handbook has been supplied for this item of plant. bk must be available at all times to all potential operators and supervisory staff. k prior to operating. Isk assessment/Job Safety Analysis must be undertaken covering all operating	All potential operators must r processes and environments	ead and be familiar with				
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	The manufact This handboot this handboot A complete riplant. SWMS References	nents in Place: Operation Handbook turer's operation handbook has been supplied for this item of plant. bk must be available at all times to all potential operators and supervisory staff. k prior to operating. isk assessment/Job Safety Analysis must be undertaken covering all operating ishould be produced for specific tasks associated with use of this item of plant. Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	All potential operators must r processes and environments & Regulations	ead and be familiar with associated with this item o				
	The manufact This handboot A complete riplant. SWMS References Risk Treatm A pre-operation	nents in Place: Operation Handbook turer's operation handbook has been supplied for this item of plant. ok must be available at all times to all potential operators and supervisory staff. k prior to operating. isk assessment/Job Safety Analysis must be undertaken covering all operating ishould be produced for specific tasks associated with use of this item of plant. Work Health & Safety Act & Regulations- , Occupational Health & Safety Act INCORRECT OPERATION	All potential operators must r processes and environments & Regulations HIGH 22	ead and be familiar with associated with this item o MEDIUM 15				





Make JCB Model 409B ZX Type Loader, Wheel Chassis / VIN Assessed By Date

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating					
	HIGH 22	MEDIUM 15					
Risk Treatments in Place: SOP Loader, Wheel Safe Operation Procedures are available for this Loader, Wheel. The information in the Safe Operation Procedures must be followed at all times whilst operating this Loader, Wheel.							
References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act	& Regulations	7					
	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 must be clear and legible at all times whilst this item of plant is in operation.	s. Passengers must not be ca	rried at anytime. This label					
Legislation: State Health & Safety Legislation & Regulation							
References: AS1319-							
	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.	Irill holes and welds) must be	present, clean and legible					
References: ISO3471	î	1					
	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".						
	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 provisions have been met - 1. The machine is designed to work within the minimum approach distances 2. Permission has been granted by the electricity company and 3. Safe systems of work have been documented and approved.							
References: ISO31000							
	HIGH 22	MEDIUM 15					
Risk Treatments in Place: Dial Before You Dig (AUS) This item of plant is fitted with a clear hazard warning label re: underground services and 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							





Chassis / VIN Assessed By Date

COLLISION HIGH 22 MEDIUM 15 Risk Treatments in Place: Prone Use label This ten of plants lifed with an instruction label addwing that mobile phones must not be used whilst operating this machine. Accordingly all operators must not use a mobile phone at any time while operating must not be used whilet operating this machine. Accordingly all operators must not use a mobile phone at any time while operating must not searce sary 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 whilet this item of plant is in operation. Reformance: 3: 3519 [IOSINING, EVENSION, BURNS HIGH 22 MEDIUM 15 Risk Treatments in Place: Tank ID Label The tank(s) on this item of plant have clear, legible at all times, which this includes radius, hyperialic and predicabel label(s). Reformance: 3: Vork health & Safety Act & Regulations Risk Treatments in Place: Tank ID Label HIGH 22 MEDIUM 15 Risk Treatments in Place: Tank ID Label HIGH 22 MEDIUM 15 Risk Treatments in Place: Tank ID Label HIGH 22 MEDIUM 15 Risk Treatments in Place: Tank ID Label HIGH 22 MEDIUM 15 Risk Treatments in Place: Tank ID Label HIGH 22 MEDIUM 15 Risk Treatments in Place: Tank ID Label HIGH 22 MEDIUM 15 Risk Treatment	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating					
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References: As1319-, ISO31000 POISONING, EXPLOSION, BURNS HIGH 22 MEDIUM 15 Risk Treatments in Place: Tank ID Labol 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 maintor, hydraulic and perfoldiseal tanks) References: Work Health & Safety Act & Regulations Occupational Health & Safety Act & Regulations HIGH 22 MEDIUM 15 Risk Treatments in Place: Hydraulic Coupler HIGH 22 MEDIUM 15 Risk Treatments in Place: Hydraulic Coupler for removing/securing attachments. The coupler is fitted with a safety device which detects and displays verification at the operator position that the coupler clocking device. Once fitted the safety device must be fully functional at all times whilst this item of plant is in operation. This device must be checked as part of your daily pre-operational checklist, if any fault is detected at any time then operation must cease until the fault is rectified. MEDIUM 15 Risk Treatments in Place: Fire Extinguisher HIGH 21 MEDIUM 15 Risk Treatments in Place: Fire Extinguisher HIGH 21 MEDIUM 15 Risk Treatments in Place: Bit the dynamized Capacity Label HIGH 21 MEDIUM 15 Risk Treatments in Place: Bit the dynamized fire extinguisher. Fire extinguisher(s) must be present and fully functional at all titres. They must be cheared Capacity 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							
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This device must be checked as part of your daily pre-operational checklist, if any fault is delected at any time then operation must cease until the fault is rectified. References: ISO31000	The loader boom is fitted with a hydraulic coupler for removing/securing attachments. The c displays verification at the operator position that the coupler locking device is engaged corre							
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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.	This item of plant has a lifting point fitted to the boom, accordingly a load/distance table is present at the operator work area. This must be clear and legible at all times. This item of plant must comply with the relevant parts of AS 1418 at all times. All operators must be appropriately trained to use this item of plant and licenced where necessary.							
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.	CRUSHING	HIGH 21	MEDIUM 15					
	This item of plant has clear hazard warning labels re: crush zone, keep clear, that are attach	ed to each side of the articula	ated joint. These must be					





Chassis / VIN Assessed By Date

	HAZARD(S)		Prelim. Risk Rating	Residual Risk Rating		
4	CRUSHING		HIGH 21	MEDIUM 15		
The loader b and servicea	nents in Place: Loader Crush Zone Label oom on this item of plant is fitted with a hazard warn ble at all times.	ing label re: crush zone, ke	ep clear. This label must be p	present and fully functional		
References	S: AS1319- , ISO20474-		1	1		
	CRUSHING, STRIKING, COLLISION		HIGH 19	MEDIUM 14		
The rear of t and servicea	nents in Place: Tail Swing Label nis item of plant has a hazard warning label re: gene ble at all times.	ral plant movement, tail swi	ing, keep clear. It must be pre	esent and fully functional		
References	s: ISO20474-					
00	ENTANGLEMENT, SHEARING, BURNS		MEDIUM 14	MEDIUM 13		
The engine f remove guar	nents in Place: Engine Guard Label an and alternator belts, pulleys and gears are guarde ds while engine is running. These labels must be pre a: AS/NZS4024.1201, AS1319-	-	• •	•		
(1)	CRUSHING, COLLISION		MEDIUM 12	LOW 6		
This item of	nents in Place: Warning Device (horn) plant is fitted with a fully functional audible warning d y nearby pedestrians.	evice such as a horn. This	must be easily accessed by t	he operator, and easily		
	should ensure the warning devices are functional at cklists. Warning devices should operate automatical					
References	References: ISO7731, ISO9533					
	COLLISION		MEDIUM 9	LOW 5		
This item of towing instru	nents in Place: Recovery Point Label blant is fitted with a hazard warning label adjacent th ctions before towing". Failure to do so could result in ust be clear and legible at all times whilst this item of s: ISO31000	DEATH or SERIOUS INJU	• •	Read manufacturer's		
	CRUSHING, COLLISION		CRITICAL 24	MEDIUM 15		
This item of 1. Is separat 2. Has a dev 3. Requires a	nents in Place: Park Brake blant is fitted with a fully functional park (hand) brake e to the service brakes ice which maintains the brake in the on position until at least two separate and distinct movements to dise ke must be regularly inspected and tested. These insects at AS2958	intentionally disengaged & ngage the park brake.		plant safety programme.		
	CRUSHING		CRITICAL 24	MEDIUM 15		
	nents in Place: Level Lift Loader plant is fitted with a level lift type loader. The level lift	functionality must be opera	ational at all times whilst this i	tem of plant is in operation.		
OR						
	This item of plant is fitted with a FOPS to control the crushing hazard created by the non level lift loader. The FOPS must be present at all times whilst this item of plant is in operation and a restraining device must be used to hold loads in place which a risk assessment indicates are unstable and may fall.					
Reference	: ISO20474-					
ssor	MACHINE DETAILS Model 409B ZX Type Loader.			Page 8 of 1		

Loader, Wheel

Туре

Date

27-Feb-2023

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	
	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 advice immediately. Always use a piece of cardboard or similar to check for suspected lea		s the skin seek medical	
Hydraulic pressure can be stored and is a hazard. Before disconnection or connection of	nydraulic 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 Wait 5 minutes 			
References: AS4024, AS2671	· ·	1	
	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 se References: ISO31000	curely restrained.		
References. ISOS 1000			
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 servicea	ble at all times whilst this item c	f plant is in operation.	
References: AS4024.1603			
CRUSHING 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 dam whilst this item of plant is in operation. Operators must use this seat belt at all times durin	• • •	ily attached at all times	
References: ISO6683			
If you can't see my interces ICANY SEE YOU	HIGH 22	MEDIUM 15	
Risk Treatments in Place: Operator Mirrors The operator rear view mirrors fitted to this item of plant must be fully functional and kept clean at all times. There must always be at least one mirror on each side to provide rear vision to the operator to avoid striking bystanders and objects.			
References: AS/NZS4024.1201, ISO14401.1			
CRUSHING	HIGH 22	MEDIUM 15	
Risk Treatments in Place: 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 wa	0	elts at all times whilst this	
item of plant is in operation, and accordingly seat belts must be worn at all times during of	peration.		
References: AS2294, ISO3471	í	i	
	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			
during a hose or component failure. This shield(s) must be present and fully functional at	an unnes wrinst this item of plant	is in operation.	
References: AS4024, ISO4413, AS2671			





	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	
	CRUSHING, COLLISION	HIGH 22	MEDIUM 15	
	nents in Place: Reverse Movement Alarm ovement sensor alarm is fitted to this item of plant. It must be fully functional and	l serviceable at all times while	st this item of plant is in	
	: ISO7731, ISO9533			
Ъ	POOR VISIBILITY, COLLISION	HIGH 22	MEDIUM 15	
This item of p operation in a operation car	nents in Place: Machine Lights blant is fitted with self contained lighting. All of these lights must be fully function areas of reduced light. If any of these lights stop working the operation must cea n continue in the areas of reduced light.		•	
References	s: ISO20474-		1	
00	ENTANGLEMENT	HIGH 22	MEDIUM 15	
The engine fa whilst this ite	nents in Place: Engine Guards an and alternator belts, pulleys and gears are guarded. These guards must be p m of plant is in operation. s: AS/NZS4024.1601	present and fully functional ar	nd serviceable at all times	
References	. AUNZOHUZH. 1001			
×	CRUSHING	HIGH 22	MEDIUM 15	
This item of p instruction la articulated jo	nents in Place: Articulated Joint Locking Device blant is fitted with a safety locking device to the articulated joint (either a locking bels on both sides of the articulated joint which state that either of these devices int. These must be present, serviceable and employed at all times whilst this ite	s must be engaged during an	, -	
References	S: AS/NZS4024.1201, AS1319-	i	1	
<u> </u>	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.				
is in operatio	olatforms and/or access points must have guardrails present that are fully function.		ies whilst this item of plant	
References: AS5327				
Ъ	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 				
	than one beacon may be fitted to meet these criteria.			
References	s: ISO20474-		· · · · · · · · · · · · · · · · · · ·	
	OPERATIONAL MALFUNCTION	HIGH 22	LOW 2	
Risk Treatr	Risk Treatments in Place: Plant Modification			
The plant is i	n original condition.			
References	s: ISO31000			





Chassis / VIN Assessed By Date

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
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.	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			
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 pla activities.	nt is manned, whether during	operation or maintenance		
References: ISO31000	1	1		
POOR VISIBILITY, COLLISION	HIGH 21	MEDIUM 15		
Risk Treatments in Place: Windscreen Wipers The windscreen wipers and washers fitted to this item of plant must be fully functional at all	times.			
References: AS/NZS4024.1201	1			
	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)	ructure is designed to protect	the operator from small		
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: AS2294, ISO3449, 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 structure is designed to protect the operator from heavy falling objects (e.g. trees, rocks). Care should still be exercised when operating in an area with a risk of falling objects.				
References: AS2294, ISO3449				
CRUSHING	HIGH 21	MEDIUM 15		
Risk Treatments in Place: 1T Controlled Lowering Device This item of plant is fitted with a controlled lowering device which is activated in the event of hydraulic failure. If this device is not fully functional then lifting of freely suspended loads in excess of 1T must not occur until this controlled lowering device is repaired. The requirements of AS 1418.8 must also be met prior to lifting freely suspended loads in excess of 1T. Freely suspended loads regardless of weight must never be lifted over any personnel. References: ISO8643, AS1418.8				





INCORRECT OPERATION MIGH 20 MEDIUM 14 Resk Treatments in Place: intuitive Controls Control leaves the the results in the manifere segments and controls is consistent with the action of the machine segments and control leaves the the results in the manifere segments and control leaves the the results in the manifere segments and control leaves the the results in the manifere segments and control leaves the the results in the manifere segments and control leaves the the results in the manifere segments and control leaves the the results in the manifere segments and control leaves the the results in the manifere segments and control leaves the result in the manifere segments and control leaves the results in the manifere segments and control including all overs, buttors, podils, subtorse exists and the poperate during documents and control including all overs, buttors, podils, subtorse exists and the segments and inclusions. The properation control during the control is control including all overs, buttors, podils, subtorse exists and the heat the manifere segments and documents and control including all overs, buttors, podils, subtorse exists and the heat the manifere segments and the seg	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	
The controls fitted to this term of pant are incretised so that the moment of the control is constainer with the action of the machine is a generating operation. References: ASN254024 1006 STRAINS RIK Treatments in Place: Controls Ergonomics A controls including allevers, buttents, each are placed near the operator work position and are easy to reach and operate during the section of the generator some allows. References: ASN254024 1007 NCORRECT OPERATION, SLIPPING HIGH 17 LOW 6 RIK Treatments in Place: Control Ergonomics A controls including allevers, buttents, pedials within set do, are placed near the operator work position and are easy to reach and operate during the section of the generator some allows. References: ASN254024 1001 Signal allowers, buttents, pedials within set do, are placed near the operator work position and are easy to reach and operate during the section including all levers, buttents, edd, are placed near the operator work position and are easy to reach and operate during the section including all levers, buttents, pedials within set do, are to be perator work parts and the section and age at all times. References: ASN254024 1001 Signal all sections and all sections and all times while the item of plant is in operator. It must be non slip, free from damage at all times. References: ASN254024 1001 All personnal must - A wave prime in the place is and a genes. All personal must - A wave prime in the during access and egress. A wave maintain the place is constrol during access and egress. A wave maintain the points of control during access and egress. A wave maintain three points of control during access and egress. A wave maintain three points of control during access and egress. A wave maintain three points of control during access and egress. A wave maintain three points of control during access and egress. A wave maintain three points of control during access and egress. A wave maintain three points of pointal during access and egress. A wave maintain three point		HIGH 20	MEDIUM 14	
control network 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 generation. References: ASR/254024.1906 All controls including all lowes. Nutnons, paddia, switches etc. are placed near the operator work position and are easy to reach and operate during the execution of the operator for all persons within the DB/b percences: ASR/254024.1901 All controls including all lowes. This applies for all persons within the DB/b percences: ASR/254024.1901 LOW 6 Risk Treatments in Place: Control Lowes/Pecala/Bultons HiGH 17 LOW 6 Risk Treatments in Place: Control Lowes/Pecala/Bultons HiGH 12 LOW 6 Risk Treatments in Place: Control Lowes/Pecala/Bultons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Lowes/Pecala/Bultons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Lowes/Pecala/Bultons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Lowes/Pecala/Bultons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Lowes/Pecala/Bultons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Lowes/Pecalea/Bultons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Lowes/Pecalea/Bultons MEDIUM 12 LOW 6 All persons on exclusion of the during access and egress. Always fore the ine of plant dur	Risk Treatments in Place: Intuitive Controls			
All production STRAINS HIGH 19 LOW 5 Risk Treatments in Place: Controls Ergonomics All controls including all evers, buttons, pedals, witches etc, are placed near the operator work position and are easy to teach and operate during the execution of the operator's normal dudies. This applies for all persons within the 55th percentile of the normal population distribution. Risk Treatments in Place: Control Levers/Pedals/Buttons HIGH 17 LOW 6 Risk Treatments in Place: Control Levers/Pedals/Buttons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Levers/Pedals/Buttons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Levers/Pedals/Buttons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Levers/Pedals/Buttons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Levers/Pedals/Buttons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Levers/Pedals/Buttons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Levers/Pedals/Buttons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Levers/Pedals/Buttons MEDIUM 12 LOW 6 Risk Treatments in Place: Control Levers/Pedals/Buttons MEDIUM 12 LOW 6 Risk Treatments in Place: Control during access and egress. All version genet the tem of plant during access and egress. All v			• •	
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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.	Risk Treatments in Place: Work Area Floors			
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Keterences: AS/NZS4024.1201, ISO20474-				
	References: A5/NZ54024.1201, ISO204/4-	References: AS/NZS4024.1201, ISO20474-		





Chassis / VIN Assessed By Date

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
	GA STRAINS	MEDIUM 9	LOW 1		
	Risk Treatments in Place: Operator Seat The operator seat fitted to this item of plant must remain free from damage and tears, and be permanently and securely fitted at all times.				
	References: AS/NZS4024.1401, ISO20474-				
	HEAT STROKE, DEHYDRATION	MEDIUM 9	LOW 4		
	Risk Treatments in Place: Air Conditioning This item of plant is fitted with an air conditioned cabin. This air conditioned cabin helps control the air quality and temperature for the operator and also provides shade from the sun. The air conditioner must be fully functional and serviceable at all times whilst this item of plant is in operation. References: ISO31000				
	BURNS	MEDIUM 9	LOW 5		
	Risk Treatments in Place: Exhaust The engine exhaust on this item of plant is fitted with a guard to prevent injury to any person and fully functional and serviceable at all times whilst this item of plant is in operation. References: AS/NZS4024.1201	n and control the risk of initiatir	ng a fire. It must be present		
NCE	CRUSHING, COLLISION	CRITICAL 25	MEDIUM 15		
MAINTENANCE	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				
MA	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 components, etc.					
	References: ISO31000				
		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				
	INSTABILITY, COLLISION	HIGH 22	MEDIUM 15		
	Risk Treatments in Place: Tyres The tyres and wheel components must be inspected as part of a "pre start" checklist. These inspections must be documented as part of your p safety programme. References: ISO31000				





	HAZARD(S)	Prelim. Risk Rating	Residual Risk Ra
	۹S	HIGH 22	MEDIUM 15
that hoses are free from damage	of plant are free from damage and protected a e and that protection is in place at all times wh e conducted regularly and documented as par	ilst this item of plant is in operation. Inspe	
CRUSHING		HIGH 22	MEDIUM 15
Risk Treatments in Place: R The Roll Over Protective Structu operation.	COPS Damage Ire (ROPS) fitted to this item of plant must rem	ain free from damage at all times whilst th	is item of plant is in
References: AS2294, ISO3471	1		
	MALFUNCTION	HIGH 22	LOW 2
wheel hubs, steering and hydrau detected must be repaired within References: ISO31000		this item of plant to be stood-down until re	
	ALFUNCTION	HIGH 21	MEDIUM 15
These records must continue to	ds are available for this item of plant. be managed and available at all times as part		· · •
Service and maintenance record These records must continue to	ds are available for this item of plant. be managed and available at all times as part lar inspections of the item of plant with specific		· · •
Service and maintenance record These records must continue to includes the undertaking of regul service and maintenance require	ds are available for this item of plant. be managed and available at all times as part lar inspections of the item of plant with specific	c reference to all OEM prescribed, schedu	· · •
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Service and maintenance record These records must continue to includes the undertaking of regul service and maintenance require References: Work Health & Sa POOR VISIBILITY Risk Treatments in Place: W	ds are available for this item of plant. be managed and available at all times as part lar inspections of the item of plant with specific ements). afety Act & Regulations- , Occupational Health Y, COLLISION	& Safety Act & Regulations HIGH 21	MEDIUM 15

IMAGES

- No Images Available -

NOTES

- No Notes Available -







RISK MANAGEMENT REPORT

ТҮРЕ	Loader, Wheel	Report Number	12098 20230227-1425
MAKE	JCB	Date	27-Feb-2023
MODEL	409B ZX	Created By	Mick Monaghan
CHASSIS / VIN	3056049	Assessor	Mick Monaghan
		Assist. Assessor(s)	
		Owner	JCB Ballarat
		Assessment Purpose	Sale
		State	VIC

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 _{JCB} Model _{409B ZX} Type _{Loader, Wheel} Chassis / VIN Assessed By Date