

RISK MANAGEMENT REPORT

ТҮРЕ	Excavator - Medium (10 - 19.9 Tonne)		
MAKE	Doosan		
MODEL	DX140LCR-5		
PLANT NUMBER	338A		
Report Number	15313 20190611-1121		
Date	11-Jun-2019		
Created By	Nic Mclennan		
Assessor	Nic Mclennan		
Assist. Assessor(s)			
Completed By	Nic Mclennan		
Owner	AB Equipment Limited		
Assessment Purpose	Hire		
State	NZ		



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





SECTION 1 IMPORTANT INFORMATION

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This report pertains to this item of plant as it appeared on the day of inspection.

It is the responsibility of the hirer to conform with the instructions and information contained within this report. Any change in condition of this item of plant should be reported to the hire company immediately.

Any information relating to the standard features have been supplied via the manufacturer and should be used as a guide only until verified.

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

SECTION 2 MACHINE DETAILS

l o l		1. Manufacturers specified noise level dBA	98
🎽 📘		2. Ambient noise level dBA	
		3. Noise level - Operator position (high idle) dBA	73
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		5. Noise level LHS dBA @ m (high idle)	
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"		7. Noise level RHS dBA @ m (high idle)	
		8. Noise level Rear dBA @ m (high idle)	
古		Standard bucket capacity, SAE rated (m3)	0.24
MACHINE DETAILS	BUCKET	Standard bucket width (mm)	464 With Out Side Cutters / 534 With Side Cutters
	CAPACITIES	Fuel Tank Capacity (Litres)	234 Its
		Dig depth to cut 2.44 m level bottom (mm)	
		Digging depth (mm)	5500
		Dump height (mm)	6840
		Ground clearance (mm)	410
		Max depth of vertical wall (mm)	4555
	DIMENSIONS/WEIGHTS	Operating weight (kg)	16800
		Reach @ ground level (mm)	8300
		Tailswing radius (mm)	1480
		Transport height (mm)	2795
		Transport length (mm)	77230
		Width (mm)	2590
	ENGINE	Engine Displacement (Litres)	4.5
		Engine Hours	
		Engine Make & Model	Cummins QSB 4.5
		Engine Number	
		Engine Power (kW@rpm)	71@1900
		Number of Cylinders	4
	EXTRAS	Spare spool for attachments? Yes/No	
		Quick Hitch Make	GEITH
	HITCH	Quick Hitch Model	QC65H1G3
		Quick Hitch Serial No.	
		Flow of main pumps (L/Min)	2 x 114
		Hydraulic Oil Reservoir Capacity (Litres)	93.5L
	HYDRAULICS	Pump Types	Variable Displacement Axial Piston
		Relief valve pressure, main pumps (Bar)	343
		Class	Excavator
	PLANT CLASSIFICATIONS	Year	
		FOPS Compliance No.	ISO10262 : 1998 (Level 2) & SAE J1356
	SAFETY STRUCTURES	FOPS Serial No.	SAE 31330
		ROPS Compliance No.	ISO12177-2 : 2008
		Nor o compliance no.	10012111-2.2000





	ROPS Serial No.	
TRACKS	Track length on ground (mm)	3035
TRACKS	Track pad width (mm)	600
TRANSMISSION	Speed (km/h)	Low 3 / High 5
	Arm breakout (kgf)	6500
WORK CAPABILITIES	Bucket breakout (kgf)	11100
	Gradeability - Degrees/(%)	70% {35 degrees}
	Air Conditioning	
EXTRAS	Bucket - 450mm	Trench Bucket
EATRAS	Bucket - 900mm	Dig Bucket
	Bucket - Tilt	Tilt Bucket





SECTION 3 RISK ANALYSIS / RISK EVALUATION

RIS	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.

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.	
Substitute Provide an alternative that is capable of performing the same task which is safer.		Provide an alternative that is capable of performing the same task which is safer.	
\Box	Engineering	Provide or construct a physical barrier or guard.	
Administration Develop policies, procedures, practices and guidelines in consulta Provide training, instruction and supervision about the risk source		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
	-	-				

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		
ELIVERY	CRUSHING	HIGH 22	MEDIUM 15		
DELIV	Risk Treatments in Place: SWMS Loading/Unloading Ensure that all operators follow approved SWMS/SOP when loading and unloading this mad tilt tray.	hine to and from a flat top tru	ck or trailer, low loader or		
	References: Work Health & Safety Act & Regulations-				
	CRUSHING	HIGH 22	MEDIUM 15		
	Risk Treatments in Place: SWMS Load Restraint Ensure that all operators follow the approved SWMS/SOP when restraining this machine for	transport.			
	References: Work Health & Safety Act & Regulations-				
NOI	NOMINATED OPERATOR ONLY	CRITICAL 24	MEDIUM 15		
OPERATION	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-				
		HIGH 22	MEDIUM 15		
	Risk Treatments in Place: Operation Handbook The manufacturer's operation handbook has been supplied for this item of plant.	1			
	This handbook must be available at all times to all potential operators and supervisory staff. this handbook prior to operating.	All potential operators must r	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.				





HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
	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 operati	ng this Excavator.		
References: Work Health & Safety Act & Regulations-				
INCORRECT OPERATION	HIGH 22	MEDIUM 15		
Risk Treatments in Place: SOP Excavator				
Safe Operation Procedures are available for this Excavator. The information in the Safe O	peration Procedures must be for	bllowed at all times whilst		
operating this Excavator. References: Work Health & Safety Act & Regulations-				
References: work health & Salety Act & Regulations-		1		
	HIGH 22	MEDIUM 15		
Risk Treatments in Place: Control Labels				
All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to the	r purpose and method of opera	ation. These labels must be		
maintained in a clean and serviceable condition at all times. References: AS/NZS4024.1905				
References: AS/INZ54024.1903		1		
	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 it		ntrols 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-	1	1		
INCORRECT OPERATION, CRUSHING	HIGH 22	HIGH 21		
Risk Treatments in Place: Boom Rated Capacity Label		· · · · · · · · · · · · · · · · · · ·		
This item of plant has a rated capacity label fitted to each side of the boom. Ensure that the		at all times whilst this item		
of plant is in operation. Operators must not exceed this rated capacity at any time during o	peration.			
References: AS1418.8		1		
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 extinguis	., .	•		
They must be readily accessible to the operator. Regular inspections must also be carried and AS 1851 – 1995	out in accordance with the mar	nufacturer's requirements		
		1		
INCORRECT OPERATION, CRUSHING	HIGH 21	MEDIUM 15		
Risk Treatments in Place: Quick Hitch Information				
This hydraulic quick hitch has the following information marked upon it -				
 A unique identification mark (serial number) The manufacturer's name and model clearly and durably marked upon it 				
3. The maximum rated capacity clearly and durably marked upon it				
4. The mass of the hitch clearly and durably marked upon it				
5. The lift point capacity (kg) clearly and durably marked upon it				
This information must be considered by all operators when assessing the suitability of the this information could lead to serious injury or death.	nitch for any task. Failure to co	nsider and or comply with		
References: AS4772				





	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating			
	COLLISION, STRIKING, CRUSHING	HIGH 19	MEDIUM 14			
	Risk Treatments in Place: Tail Swing Label The rear of this item of plant has a hazard warning label re: general plant movement, tail swing, keep clear. It must be present and fully functional and serviceable at all times.					
	References: ISO20474-					
		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 ridentifiable by nearby pedestrians.	must be easily accessed by th	ne operator, and easily			
	All operators should ensure the warning devices are functional at the start of each shift, by capre-start checklists. Warning devices should operate automatically where appropriate (eg rev References: ISO7731, ISO9533					
NCE	CRUSHING	CRITICAL 24	LOW 1			
COMPLIANC	Risk Treatments in Place: Closed Eye Lifting Point The lifting point fitted to this item of plant is the closed eye type. Hooks with or with out latchi time. References: AS1418.8	ng devices must not be used	as a lifting point at any			
DESIGN C(STRIKING, BURNS	HIGH 22	MEDIUM 15			
DES	Risk Treatments in Place: Hydraulic Hoses This item of plant has hydraulic hoses. These hoses must be inspected each day or before e wear immediate action must be taken to control the risk arising from this wear. These inspect		there are visible signs of			
	Hydraulic fluid at high pressure can penetrate the skin, never use any part of your body to ch advice immediately. Always use a piece of cardboard or similar to check for suspected leaks.		s the skin seek medical			
	Hydraulic pressure can be stored and is a hazard. Before disconnection or connection of hyd	draulic hoses complete the fol	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: AS2671, AS4024					
		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 requirements - 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, exit and while performing maintenance on this item of plant. This device must be fully functional at all times whilst this item of plant is in operation.					
	References: ISO10968					
	STRIKING, ENTANGLEMENT, COLLISION, CRUSHING	HIGH 22	MEDIUM 15			
	Risk Treatments in Place: Neutral Start This item of plant has neutral start control in place. It must be fully functional and serviceable at all times whilst this item of plant is in operation. References: AS4024.1603					





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Nic Mclennan

11-Jun-2019

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	
¢.	CRUSHING	HIGH 22	MEDIUM 15	
	ments in Place: Quick Hitch Controls			
	tch operation control fitted with a device/method to prevent accidental operation. lant is in operation.	. This device must be fully fun	ictional at all times whilst	
References	s: AS/NZS4024.1906, AS4772			
	CRUSHING	HIGH 22	MEDIUM 15	
	ments in Place: Seat Belt			
	plant is fitted with an operator seat belt. This seat belt must be free from damage		ily attached at all times	
References	em of plant is in operation. Operators must use this seat belt at all times during o	peration.		
Kelerenoot	. 1300003			
	CRUSHING	HIGH 22	MEDIUM 15	
This item of p machine is in This alarm m	ments in Place: Quick Hitch Operation Alarm plant is fitted with a quick hitch with a fully functional audible alarm fitted to the o in the mode that allows for the controls to be operated to engage or disengage at must be fully functional at all times whilst this item of plant is in operation.		operator that the host	
References	s: AS4772, ISO7731	1		
	CRUSHING	HIGH 22	MEDIUM 15	
An automatic must be fully	ments in Place: Movement Awareness Alarm c movement awareness alarm is fitted to this item of plant. This alarm is automat r functional and serviceable at all times whilst this item of plant is in operation.	tically activated when travel ir	n any direction occurs. It	
References	s: ISO7731, ISO9533	1		
	CRUSHING	HIGH 22	MEDIUM 15	
This item of p controlled sa	ments in Place: Quick Hitch - Fully Automatic plant is fitted with a fully automatic hydraulic (quick) hitch (i.e. has hydraulically o fety device as back up) between the excavator arm and attachments. levice must meet all of the following criteria at all times prior and during operation		ention device and remotely	
 Is a mechanical device i.e. not just an indicating system/device Must be intentionally disengaged to remove attachments Is not the primary source of retention of attachments Has means of verifying engagement of the primary retention device from the operator position and Has means of verifying engagement of safety system from operator position 				
If any of thes References	se criteria are not met at any time then operation must cease.			
References	3. A54/72			
Ъ	COLLISION, POOR VISIBILITY	HIGH 22	MEDIUM 15	
This item of p operation in a	ments in Place: Machine Lights plant 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: ISO20474-





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 ar	nd serviceable at all times	
whilst this item of plant is in operation.			
References: AS/NZS4024.1601			
<u>•</u>			
	HIGH 22	MEDIUM 15	
Risk Treatments in Place: Handrails			
All operator work platforms above 1.8 metres from the ground or nearest platform have an	approved handrail. It must be	present and fully functional	
and serviceable at all times.			
Handrails must meet the following requirements at all times whilst this item of plant is in ope	eration -		
1. All handrails are at least 0.95m			
2. All handrails have a mid rail			
3. All sides and ends have a kick plate which is at least 100mm high			
References: AS1657			
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	a at all times whilst this item of	f plant fitted is in operation -	
- Is visible up to 200m in all directions (allowing for intermittent obstruction from the plant st	ructure whilst the plant is in op	peration)	
- Is fitted in the most appropriate location on machine to maximise visibility without risking of	ontinual damage		
NOTE: more than one beacon may be fitted to meet these criteria.			
References: ISO20474-			
	HIGH 22	LOW 2	
Risk Treatments in Place: Plant Modification			
The plant is in original condition.			
References: ISO31000			
	HIGH 21	MEDIUM 15	
Risk Treatments in Place: Windscreen Wipers		1	
The windscreen wipers and washers fitted to this item of plant must be fully functional at all	times.		
References: AS/NZS4024.1201			
ROPS FITTED CRUSHING	HIGH 21	MEDIUM 15	
Risk Treatments in Place: ROPS			
A Roll Over Protective Structure (ROPS) to ISO 3471, ISO 12117.1 or 2, AS 2294 or AS 4987 is fitted to this item of plant. A permanent label stating			
this standard must be attached to the structure at all times. This structure provides a safety envelope during a rollover. A warning label re: wearing of			
seat belts at all times whilst this item of plant is in operation and accordingly seat belts mus	t be worn at all times during o	peration.	
References: AS2294, ISO3471			
CRUSHING	HIGH 21	LOW 5	
Risk Treatments in Place: FOPS Level II			
This item of plant is fitted with a level II Falling Objects Protective Structure (FOPS). This structure is designed to protect the operator from heavy			
falling objects (e.g. trees, rocks). Care should still be exercised when operating in an area with a risk of falling objects.			
References: AS2294, ISO3449, ISO10262			





	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
¢.	INCORRECT OPERATION	HIGH 20	MEDIUM 14
Risk Treatr	nents in Place: Intuitive Controls		
	fitted to this item of plant are orientated so that the movement of the control is of to the left results in the machine turning to the left. This design feature must be		0 0
References	S: AS/NZS4024.1906		
Å	STRAINS	HIGH 19	LOW 5
Risk Treatr	nents in Place: Controls Ergonomics		
	ncluding all levers, buttons, pedals, switches etc, are placed near the operator w		
	n of the operator's normal duties. This applies for all persons within the 95th per	centile of the normal population	on distribution.
References	S: AS/NZS4024.1901		
*	SLIPPING, INCORRECT OPERATION	HIGH 17	LOW 6
All controls in	nents in Place: Control Levers/Pedals/Buttons ncluding all levers, buttons, pedals, switches etc. must be kept non-slip and free	from damage at all times.	
References	S: AS/NZS4024.1901		
×	SLIPPING	MEDIUM 12	LOW 6
Risk Treatr	nents in Place: Operator Work Area Access/Egress		1
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	e, located at a height so as to not cause undue body stresses and strains with th	nree points of contact availabl	e to personnel at all times.
All paraappa	Imust		
All personne	the item of plant during access and egress.		
	aintain three points of contact during access and egress.		
	ry an object(s) in his/her hand(s) during access and egress.		
4. Never jum	p off machine.		
References	s: AS3868		
×	SLIPPING, FALLING	MEDIUM 12	LOW 6
Risk Treatr	nents in Place: Access/Egress Instruction Label		
An instruction	n label is fitted adjacent access/egress areas to advise all personnel of the follo	wing -	
 Always face the item of plant during access and egress. Always maintain three points of contact during access and egress. Ensure the steps are clean. 			
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			
If you can't see my mirrors I CAN'T SEE YOU	COLLISION, POOR VISIBILITY	MEDIUM 12	MEDIUM 11
Risk Treatr	nents in Place: Operator Mirrors	1	I
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: ISO14401.1, AS/NZS4024.1201			





SLIPPING, FALLING, TRIPPING MEDIUM 12 LOW 6			
Dick Treatments in Discourse Day Assess			
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: AS3868			
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			
SLIPPING, INCORRECT OPERATION MEDIUM 9 LOW 4			
Risk Treatments in Place: Operator Floor			
All work area floors are non-slip and free from damage & debris.			
Floor area must remain non-slip and free from damage & debris, including rubbish, tools and 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-			
HEAT STROKE, DEHYDRATION MEDIUM 9 LOW 4			
Risk Treatments in Place: Air Conditioning			
This item of plant is fitted with an air conditioned cabin. This air conditioned cabin helps control the air quality and temperature for the operator and			
also provides shade from the sun. The air conditioner must be fully functional and serviceable at all times whilst this item of plant is in operation.			
References: ISO31000			
BURNS MEDIUM 9 LOW 5			
Risk Treatments in Place: Exhaust			
The engine exhaust on this item of plant is fitted with a guard to prevent injury to any person and control the risk of initiating a fire. It must be present and fully functional and serviceable at all times whilst this item of plant is in operation.			
References: AS/NZS4024.1201			





		HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
NCE	*	CURRENT OR PREVIOUS STRUCTURAL DAMAGE	CRITICAL 25	MEDIUM 15
MAINTENANCE	Risk Treatments in Place: Structural Integrity Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc.			or damage to structural
Z	References	: ISO31000		
M	*	INCORRECT OPERATION	HIGH 22	MEDIUM 15
		nents in Place: Maintenance Manual sturer's maintenance manual(s) has been supplied for this item of plant		
		al(s) must be available at all times to all users and maintenance staff of this iten ar with these handbook(s) prior to maintaining or repairing this item of plant.	n of plant. All users and maint	tenance staff must read
	A complete ri of plant prior	isk assessment/JSEA must be undertaken covering all inspection, maintenance to use.	e, servicing and transportation	requirements of this piece
	A full assess	ment of the competence of people using the book(s) must also be undertaken		
	References	: Work Health & Safety Act & Regulations-		
	₹ T	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: AS2671, AS4024, ISO4413			
	CRUSHING HIGH 22 MEDIUM			
		nents in Place: ROPS Damage r Protective Structure (ROPS) fitted to this item of plant must remain free from o	damage at all times whilst this	s item of plant is in
		s: 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	1	
	Y	OPERATIONAL MALFUNCTION	HIGH 21	MEDIUM 15
		nents in Place: Service Records maintenance records are available for this item of plant.		
	includes the levels and we	These records must continue to be maintained and stored in a secure area as part of your plant safety management programme. This programme includes the undertaking of regular inspections concerning the general condition of the item of plant including (but not limited to) tyre condition, oil levels and wear and tear on critical items such as brakes and steering, etc. All OEM prescribed, scheduled and non scheduled maintenance must also be documented as part of these records and attended to within a risk management framework.		
	References: Work Health & Safety Act & Regulations-			
	Assessor C	Comments: On Request Only		





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HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	
POOR VISIBILITY	MEDIUM 9	LOW 4	
Risk Treatments in Place: Windows & Screens			
Ensure the cabin/work area safety glass windows and screens are kept clean and free from cracks and other damage at all times whilst this item of plant is in use.			
References: ISO20474- , AS/NZS4024.1201			
COLLISION, INSTABILITY	MEDIUM 9	LOW 4	
Risk Treatments in Place: Tracks			
The tracks and track components must be inspected as part of a "pre start" checklist. These inspections must be documented as part of your plant			
safety programme.			
References: ISO20474-			

SECTION 6 IMAGES AND NOTES

IMAGES

- No Images Available -

NOTES

- No Notes Available -







RISK MANAGEMENT REPORT

ТҮРЕ	Excavator - Medium (10 - 19.9 Tonne)	Report Number	15313 20190611-1121
MAKE	Doosan	Date	11-Jun-2019
MODEL	DX140LCR-5	Created By	Nic Mclennan
PLANT NUMBER	338A	Assessor	Nic Mclennan
		Assist. Assessor(s)OwnerAB Equipment LimitedAssessment PurposeHire	
		State	NZ

OPERATOR ACKNOWLEDGEMENT

I the undersigned acknowledge that I have read and understand the risk management report described above.

I also acknowledge that I have received a copy of this risk management report.

DATE	NAME	COMPANY/POSITION	<u>SIGNATURE</u>



