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# **RISK MANAGEMENT REPORT**

TYPE	Excavator - Small (0 - 9.9 Tonne)	
MAKE	Volvo	
MODEL	ECR18E	EQUIPMENT
SERIAL NUMBER	29350	EQUIPMENT
Report Number	CJD 20211208-0804	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
Date	08-Dec-2021	
Created By	Blake Barnes	**
Assessor	Blake Barnes	
Assist. Assessor(s)		-
Completed By	Blake Barnes	-
Owner	CJD Volvo VIC	-
Customer	MATT FUSSELL	_
Assessment Purpose	Sale	
State	VIC	

## **TABLE OF CONTENTS**

SECTION 1	IMPORTANT INFORMATION Contains information outlining the scope and any limitations applicable to this Risk Management Report
SECTION 2	MACHINE DETAILS Contains standard machine specifications and details of any extras fitted
SECTION 3	RISK ANALYSIS, RISK EVALUATION & RISK TREATMENT Contains details of the technique used to calculate risk ratings, time frame and risk treatments. Please refer to this information when reviewing and interpreting the information in section 4 & 5
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
SECTION 5	RISK TREATMENTS IN PLACE Contains detailed information regarding the risk treatments in place including hazard, risk rating, relevant standards & legislative references
SECTION 6	IMAGES AND NOTES Contains images & any relevant information entered by the assessor





Make Volvo Model ECR18E Type Excavator - Small (0 - 9.9 Tonne) Serial Number Assessed By Date 29350 Blake Barnes 08-Dec-2021

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### SECTION 1 IMPORTANT INFORMATION

This report generated by Plant Assessor™ © Online Safety Systems on Wednesday, 8 Dec 2021 8.53 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 dismantied 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	
	2. Ambient noise level dBA	
	3. Noise level - Operator position (high idle) dBA	
NOISE TEST DESULTS	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)	
	7. Noise level RHS dBA @ m (high idle)	
	8. Noise level Rear dBA @ m (high idle)	
BUCKET	Standard bucket capacity, SAE rated (m3)	
BUCKET	Standard bucket width (mm)	
CAPACITIES	Fuel Tank Capacity (Litres)	
CAPACITIES	Hydraulic Oil Tank Capacity (Litres)	
	Dig depth to cut 2.44 m level bottom (mm)	
	Digging depth (mm)	
DIMENSIONS/WEIGHTS	Dump height (mm)	
DIMENSIONS/WEIGHTS	Ground clearance (mm)	
	Max depth of vertical wall (mm)	
	Operating weight (kg)	



Make Volvo Model ECR18E Type Excavator-Smal

Volvo ECR18E Excavator - Small (0 - 9.9 Tonne)

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Volvo ECR18E Excavator - Small (0 - 9.9 Tonne)

Model

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	Tailswing radius (mm)	
	Transport Height (mm)	
	Transport Length (mm)	
	Width (mm)	
	Engine Displacement (Litres)	
ENGINE	Engine Hours	0.898
	Engine Make & Model	3
	Engine Number	
	Engine Power (kW@rpm)	
	Number of Cylinders	
EXTRAS	Spare spool for attachments? Yes/No	
	Quick Hitch Make	ELITE
HITCH	Quick Hitch Model	- Cole
	Quick Hitch Serial No.	EL 10TL-30-13218
	Flow of main pumps (L/Min)	EL IUTE-SUISZ10
HYDRAULICS	Pump Types	
	Relief valve pressure, main pumps (Bar)	
PLANT CLASSIFICATIONS	Class	
CATIONS	Year	
	FOPS Compliance No.	ISO 10262 (Level I)
SAFETY STRUCTURES	FOPS Serial No.	100 1000 (2010-1)
STA ETT OTROCTORES	ROPS Compliance No.	ISO 3471-1
	ROPS Serial No.	
TRACKS	Track length on ground (mm)	
Holono	Track pad width (mm)	
TRANSMISSION	Speed (km/h)	
	Arm breakout (kgf)	
WORK CAPABILITIES	Bucket breakout (kgf)	
A DIENTES	Gradeability - Degrees/(%)	
	Reach @ ground level (mm)	
	Bucket - 1000mm	
	Bucket - 300mm	
	Bucket - 450mm	
EXTRAS	FOPS	
EATING .	Front grader blade	
	Hitch - Quick	
	Ripper	
	ROPS - Four Post	

## SECTION 3 RISK ANALYSIS / RISK EVALUATION

		CONS	EQUENCE		
	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

CRITICAL	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below.
нідн	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.

tation against the benefits
to mitigate the risk.

## 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)	Prolim. Risk Rating	Residual Risk Rating	Time Frame	Due Date	Date Rectified	Initial
OPERATION	INCORRECT OPERATION	CRITICAL 24	MEDIUM 15	Immediate	8-Dec-21		
ER	Risk Treatment Required: Operator Co Only persons who are qualified, trained and	experienced and/or hold th	e relevant certificativ		onerste this ite	- delet if the	
J OPI	competent/licensed person available for op operate this item of plant. Legislation: State Health & Safety Legislatik	eration of this item of plant t	then only persons wh	no are supervise	ed by a compe	tent/licensed pe	ere is not an
1do	operate this item of plant.	eration of this item of plant to	then only persons wh	no are supervise	ed by a compe	tent/licensed p	ere is not erson can

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)	Prellm. Risk Rating	Residual Risk Rating
	CRUSHING	HIGH 22	MEDIUM 15
Ensure t tilt tray	eatments in Place: SWNS Loading/Unloading hat all operators follow approved SWMS/SOP when loading and unloa		uck or trailer, low loader or
Referen	nces: Work Health & Safety Act & Regulations- , Occupational Health	& Safety Act & Regulations	
	CRUSHING	HIGH 22	MEDIUM 15
Ensure	eatments in Place: SWMS Load Restraint that all operators follow the approved SWMS/SOP when restraining th nces: Work Health & Safety Act & Regulations-, Occupational Healt		
NOILTA Risk The ma	INCORRECT OPERATION	HIGH 22	MEDIUM 15
Risk T	reatments in Place: Operation Handbook		
The ma	nufacturer's operation handbook has been supplied for this item of pla	nt.	
O This ha	ndbook must be available at all times to all potential operators and su dbook prior to operating.	pervisory staff. All potential operators must	read and be familiar with
	elete risk assessment/Job Safety Analysis must be undertaken coverin WMS should be produced for specific tasks associated with use of thi		s associated with this item of
Refere	ences: Work Health & Safety Act & Regulations- , Occupational Healt	h & Safety Act & Regulations	



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ssed By

Date



Model FCR18F Type Excevetor - Small (0 - 9.9 Tonne)

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	Prelim. Risk Rating	Residual Risk Rating
HAZARD(S)	HIGH 22	MEDIUM 15
INCORRECT OPERATION Risk Treatments in Place: Pre-op Checklist Excavator A pre-operation checklist is available for this Excavator. This checklist must be comp References: Work Health & Safety Act & Regulators-, Occupational Health & Sa	ted by all operators prior to operation	ng this Excavator,
Risk Treatments in Place: Pre-op Checklist Excavator This checklist must be comp	fetv Act & Regulations	a 1
Risk Treatments in Place: Pre-op Checklist Excavator A pre-operation checklist is available for this Excavator. This checklist must be comp References: Work Health & Safety Act & Regulations-, Occupational Health & Sa	HIGH 22	MEDIUM 15
TO UNCONFERTION		lowed at all times whilst
Risk Treatments in Place: SOP Excavator Safe Operation Procedures are available for this Excavator. The information in the S portation bits Excavator.	afe Operation Procedures must be to	
operating this Excavator.	ety Act & Regulations	Mar State
Sale Operation Proceedures are available to the Empirical Sale Operating this Excavator. References: Work Health & Salety Act & Regulations- , Occupational Health & Salety Act & Regulations- , Occ	See Street	MEDIUM 15
O     Risk Treatments in Place: Control Labels     If ontrols including all levers, buttons, podals, switches etc. are clearly labelied as I     plantained in a clean and serviceable condition at all times.	o their purpose and method of operat	ion. These labels must be
al controls including all levers, buttons, poulas, since the analysis and a second and a service able condition at all times.		Harris and the
eferences: AS/NZS4024.1905		
CRUSHING, FALLING	HIGH 22	MEDIUM 15
gislation: State Health & Safety Legislation & Regulation Iferences: AS1319- CRUSHING	HIGH 22	MEDIUM 15
ferences: AS1319- CRUSHING CRUSHING K Treatments in Place: ROPS seat belt label ifem of plant is fitted with a ROPS and has an advisory label stating that "seatbelt is lobel must be present, clean and legible at all times.		MEDIUM 15
Iferences: AS1319- CRUSHING sk Treatments in Place: ROPS seat belt label si item of plant is fitted with a ROPS and has an advisory label stating that "seatbelt		MEDIUM 15
Iferences: AS1319- CRUSHING CRUSHING K Treatments in Place: ROPS seat belt label item of plant is fitted with a ROPS and has an advisory label stating that "seatbelts ibelm must be presend, clean and legible at all times. Operators and passengers must wear seatbelts whilst on this item of plant.		MEDIUM 15
Iferences: AS1319- CRUSHING C	s must be worm . HIGH 22 these labels are clear and legible at	HIGH 21
references: AS1319-     CRUSHING     CRUSHING     CRUSHING     item of plant is fitted with a ROPS and has an advisory label stating that "seatbelts     item of plant is fitted with a ROPS and has an advisory label stating that "seatbelts     is letor must be present, clean and legible at all times.     operators and passengers must wear seatbelts whilst on this item of plant.     Increated at the seatbelts     CRUSHING, INCORRECT OPERATION     K Treatments in Place: Boom Rated Capacity Label     Item of plant has a rated capacity label fitted to each side of the boom. Ensure that     its in operation. Operations must not exceed this rated capacity at any time during	s must be worm . HIGH 22 these labels are clear and legible at	HIGH 21
references: AS1319-     CRUSHING     CRUSHING     KTreatments in Place: ROPS seat belt label     sitem of plant is fitted with a ROPS and has an advisory label stating that "seatbelt     sitem of plant is fitted with a ROPS and has an advisory label stating that "seatbelt     sitem of plant has fitted with a ROPS and has an advisory label stating that "seatbelt     sitem of plant has the present, clean and legible at all times.     operators and passengers must wear seatbelts whilst on this item of plant.     Interces: AS2294, ISO3471     CRUSHING, INCORRECT OPERATION     K Treatments in Place: Boom Rated Capacity Label     time of plant has a rated capacity label fitted to each side of the boom. Ensure that     ant is in operation. Operators must not exceed this rated capacity at any time during     rences: AS1418.8     ELECTROCUTION     Treatments in Place: Electrical Approach Distances     tem of plant has a hazard warning label re: overhead electrical hazards and minimum     ret to strictly. These labels and tables must be present, clear and legible at all times     are required when working within 5 metres of the minimum approach distance o     ncroach within the minimum approach distances must only occur if the following pre-     machine is designed to work within the minimum approach distances     mission has been granted by the electricity company and	HIGH 22 HIGH 22 HIGH 22 Hese labels are clear and legible at operation. HIGH 22 m approach distances fitted. These s. f any live electrical apparatus.	HIGH 21 all times whilst this item MEDIUM 15
CRUSHING     CRUSHING     CRUSHING     CRUSHING     KTreatments in Place: ROPS seat belt label     sitem of plant is fitted with a ROPS and has an advisory label stating that "seatbelts     is belt must be present, clean and legible at all times.     operators and passengers must wear seatbelts whilst on this item of plant.     Kreatments in Place: Boom Rated Capacity Label     item of plant has a rated capacity label fitted to each side of the boom. Ensure that     ant is in operation. Operators must not exceed this rated capacity at any time during     reneces: AS1418 8     ELECTROCUTION     Treatments in Place: Electrical Approach Distances     iem of plant has a hazard warning label re: overhead electrical hazards and minim     red to strictly. These labels and tables must be present, clear and legible at all times:     are required when working within 5 metres of the minimum approach distance o     neroach within the minimum approach distances must only occur if the following pro-     machine is designed to work within the minimum approach distances	HIGH 22 HIGH 22 HIGH 22 Hese labels are clear and legible at operation. HIGH 22 m approach distances fitted. These s. f any live electrical apparatus.	HIGH 21 all times whilst this item MEDIUM 15

#### HAZARD(S) Prelim. Risk Rating **Residual Risk Rating** 741 ELECTROCUTION, EXPLOSION MEDIUM 15 HIGH 22 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 COLLISION HIGH 22 MEDIUM 15 Risk Treatments in Place: Phone Use label This item of plant is fitted with an instruction label advising that mobile phones must not be used whilst operating this machine. Accordingly all operators must not use a mobile phone at any time whilst operating machine. If phone use is necessary then operator must place machine in park configuration in a safe position prior to phone use. Operators MUST adhere to this advice at all times. This label must be clear and legible at all times whilst this item of plant is in operation. References: AS1319- , ISO31000 8~ POISONING, EXPLOSION, BURNS MEDIUM 15 HIGH 22 -0 Risk Treatments in Place: Tank ID Label The tank(s) on this item of plant have clear, legible label(s) identifying their contents, and if appropriate any necessary controls re: the contents. These must be present, clear and legible at all times. (this includes radiator, hydraulic and petrol/diesel tanks) References: Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & Regulations 0 FIRE HIGH 21 MEDIUM 15 **Risk Treatments in Place: Fire Extinguisher** This item of plant is fitted with an approved and maintained fire extinguisher. Fire extinguisher(s) must be present and fully functional at all times. They must be readily accessible to the operator. Regular inspections must also be carried out in accordance with the manufacturer's requirements and AS 1851 - 1995 $\square$ CRUSHING, INCORRECT OPERATION HIGH 21 MEDIUM 15 **Risk Treatments in Place: Quick Hitch Information** This hydraulic quick hitch has the following information marked upon it -1. A unique identification mark (serial number) 2. 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 hitch for any task. Failure to consider and or comply with this information could lead to serious injury or death. References: AS4772 CRUSHING, PINCHING The HIGH 21 MEDIUM 15 **Risk Treatments In Place: Swing Boom Crush Label** This item of plant has clear hazard warning labels re: pinch point/crush zone, keep clear, that are attached to each side of the boom swing/pivot point. These must be present, clear and legible at all times whilst this item of plant is in operation. References: AS/NZS4024.1201, AS1319-~~~~ CRUSHING, STRIKING, COLLISION 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-



Make Volvo Model ECRIAE Type Excavalor - Small (0 - 9.9 Tonne)

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MACHINE plant 👘 DETAILS

ECR18E Mode Type Excavator - Small (0 - 9.9 Tonne)

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HAZARD(S)	Prelim. Risk Rating	Residual Risk Ra
	MEDIUM 15	MEDIUM 15
CRUSHING Risk Treatments in Place: ROPS Label The warning label stating that the ROPS must not be damaged at any time (including cu cell from	uts, drill holes and welds) must be	present, clean and le
The warning label stating that the ROPS must not be done	the state of the	
at all times.		MEDIUM 13
References: ISO3471	MEDIUM 14	MEDIUM 13
CRUSHING Risk Treatments in Place: Front Grader Blade Label The front blade on this item of plant is fitted with a hazard warning label re: crush zone, k is respectively at all times.	keep clear. This label must be pre	sent and fully function
Risk Treatments in Place: Front Graun Die hazard warning label re. Country of the front blade on this item of plant is fitted with a hazard warning label re. Country of the fitted with a hazard warning label re		
	Call Contraction of the Contract	
References: AS1319- , ISO20474-	MEDIUM 14	MEDIUM 13
ENTANGLEMENT, SHEARING, BURNS		
V	clear legible hazard warning labels	s re do not open or
Isk Treatments in Place: Engine Guard Label he engine fan and alternator beits, pulleys and gears are guarded. These guards have c move guards while engine is running. These labels must be present, legible and easily : participation of the present and a solid set of the present of the present of the present of the present of the present of the present of the prese	seen at all times whilst this item o	r plant is in operation.
eferences: AS/NZS4024.1201, AS1319-	MEDIUM 12	LOW 6
CRUSHING, COLLISION sk Treatments in Place: Warning Device (horn) is item of plant is fitted with a fully functional audible warning device such as a horn. The		
BURNS k Treatments in Place: Open Cabin k, exhaust fumes, chemical fumes, sunstroke and sunburn pose serious risk to the open k, exhaust fumes, chemical fumes, sunstroke and sunburn pose serious risk to the open if the set hazards must always be available whilst this item of plant is in operation. If the ivaliable then operation of this item of plant must cease until these are made available to available then operation of this item of plant must cease until these are made available to the set of the set o	rator both short and long term. Th hese controls e.g. hats, sunscreen to all operators.	e appropriate controls n, dust masks etc are
erences: ISO31000		
STRIKING, BURNS	HIGH 22	MEDIUM 15
erences: ISO31000	each use for wear and tear. If ther tions must be documented. heck for leaks. If oil penetrates the	e are visible signs of e skin seek medical
Treatments in Place: Hydraulic Hoses Treatments in Place: Hydraulic Hoses Teatments in Place: Hydraulic Hoses Tereatments in Place: Hydraulic Hoses Tereatments in the statement of your body to ch immediate action must be taken to control the risk arising from this wear. These inspect ulic fluid at high pressure can penetrate the skin, never use any part of your body to ch immediately. Always use a piece of cardboard or similar to check for suspected leaks ulic pressure can be stored and is a hazard. Before disconnection or connection of hyd or engine p all bystanders clear of the work area r to operators manual as to methods to release pressure	each use for wear and tear. If ther tions must be documented. heck for leaks. If oil penetrates the	e are visible signs of e skin seek medical
Treatments in Place: Hydraulic Hoses Treatments in Place: Hydraulic Hoses Item of plant has hydraulic hoses. These hoses must be inspected each day or before e immediate action must be taken to control the risk arising from this wear. These inspect ulic fluid at high pressure can penetrate the skin, never use any part of your body to ch immediately. Always use a plece of cardboard or similar to check for suspected leaks ulic pressure can be stored and is a hazard. Before disconnection or connection of hyd p all bystanders clear of the work area t fo operators manual as to methods to release pressure.	each use for wear and tear. If ther tions must be documented. heck for leaks. If oil penetrates the	e are visible signs of e skin seek medical
STRIKING, BURNS  Treatments In Place: Hydraulic Hoses Item of plant has hydraulic hoses. These hoses must be inspected each day or before e immediate action must be taken to control the risk arising from this wear. These inspect lic fluid at high pressure can penetrate the skin, never use any part of your body to ch immediately. Always use a plece of cardboard or similar to check for suspected leaks ulic pressure can be stored and is a hazard. Before disconnection or connection of hyd pengine p all bystanders clear of the work area pro operators manual as to methods to release pressure 5 minutes ances: AS4024, AS2671  CRUSHING, COLLISION	each use for wear and tear. If ther titions must be documented. heck for leaks. If oil penetrates the traulic hoses complete the following	re are visible signs of e skin seek medical ng steps -
STRIKING, BURNS  Treatments In Place: Hydraulic Hoses Item of plant has hydraulic hoses. These hoses must be inspected each day or before e immediate action must be taken to control the risk arising from this wear. These inspect ulic fluid at high pressure can penetrate the skin, never use any part of your body to ch immediately. Always use a plece of cardboard or similar to check for suspected leaks ulic pressure can be stored and is a hazard. Before disconnection or connection of hyd pengine p all bystanders clear of the work area tr to operators manual as to methods to release pressure 5 minutes encoss: AS4024, AS2671	each use for wear and tear. If ther titions must be documented. heck for leaks. If oil penetrates the traulic hoses complete the following HIGH 22	re are visible signs of e skin seek medical ng steps -
STRIKING, BURNS  Treatments In Place: Hydraulic Hoses Item of plant has hydraulic hoses. These hoses must be inspected each day or before e immediate action must be taken to control the risk arising from this wear. These inspect lic fluid at high pressure can penetrate the skin, never use any part of your body to ch immediately. Always use a plece of cardboard or similar to check for suspected leaks ulic pressure can be stored and is a hazard. Before disconnection or connection of hyd pengine p all bystanders clear of the work area pro operators manual as to methods to release pressure 5 minutes ances: AS4024, AS2671  CRUSHING, COLLISION	each use for wear and tear. If ther titions must be documented. heck for leaks. If oil penetrates the traulic hoses complete the following	e skin ng ste

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Date

plant 💑

MACHINE

Make Volvo Model ECR18E

Type Excavator - Small (0 - 9.9 Tonne)

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
CF	RUSHING, NON COMPLIANCE	HIGH 22	MEDIUM 15
The primary open	ts In Place: Control Lock out ator controls are fitted with an isolation device which meets the follow ed to allow entry & exit of the machine passed.	ing requirements -	
plant.	tivates the primary operator controls. This must be employed during e be fully functional at all times whilst this item of plant is in operation.	entry, exit and while performing ma	intenance on this item of
References: IS			
	USHING, ENTANGLEMENT, STRIKING, COLLISION	HIGH 22	MEDIUM 15
This item of plant	Is in Place: Neutral Start has neutral start control in place. It must be fully functional and service	ceable at all times whilst this item o	of plant is in operation.
References: AS	64024.1603	all and the second second	A A PROPERTY
<u>ج</u> د	USHING	HIGH 22	MEDIUM 15
	Is In Place: Quick Hitch Controls peration control fitted with a device/method to prevent accidental oper s in operation.	ration. This device must be fully fu	nctional at all times whilst
References: AS	4772, AS/NZS4024.1906		
CR	USHING	HIGH 22	MEDIUM 15
This item of plant	is in Place: Seat Belt is fitted with an operator seat belt. This seat belt must be free from d plant is in operation. Operators must use this seat belt at all times du 06683		dily attached at all times
CR	USHING	HIGH 22	MEDIUM 15
This item of plant machine is in the	is in Place: Quick Hitch Operation Alarm is fitted with a quick hitch with a fully functional audible alarm fitted it mode that allows for the controls to be operated to engage or diseng		e operator that the host
References: AS	e fully functional at all times whilst this item of plant is in operation. 4772, ISO7731		
		The second s	1000 CO. 1000 CO. 1000
-			

Risk Treatments in Place: Movement Awareness Alarm

An automatic movement awareness alarm is fitted to this item of plant. This alarm is automatically activated when travel in any direction occurs. It must be fully functional and serviceable at all times whilst this item of plant is in operation.

References: ISO7731, ISO9533



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	Prelim. Risk Rating	Residual Risk Ratin
HAZARD(\$)	HIGH 22	MEDIUM 15
CRUSHING		ntion device and remote
CRUSHING k Treatments In Place: Quick Hitch - Fully Automatic item of plant is fitted with a fully automatic hydraulic (quick) hitch (i.e. has hydraulica trolled safety device as back up) between the excavator arm and attachments is safety device must meet all of the following criteria at all times prior and during oper prior and during oper	ally operated latch as printery reation -	
s a mechanical device i.e. not just an indicating system/device fust be intentionally disengaged to remove attachments soft the primary source of retention of attachments has means of verifying engagement of the primary retention device from the operator has means of verifying engagement of safety system from operator position	r position and	
iny of these criteria are not met at any time then operation must cease.		The state of the second
eferences: AS4772	HIGH 22	MEDIUM 15
Isk Treatments in Place: Safe Operator Location is machine is designed so that the operator is isolated from all danger zones whilst a	t the operator position. This cont	tition must exist at all tim
Nilst this item of plant is in operation. eferences: ASINZS4024.1201 POOR VISIBILITY, COLLISION	HIGH 22	MEDIUM 15
Lisk Treatments in Place: Machine Lights his item of plant is fitted with self contained lighting. All of these lights must be fully fur peration in areas of reduced light. If any of these lights stop working the operation mus peration can continue in the areas of reduced light. Laferences: ISO20474- ENTANGLEMENT	HIGH 22	MEDIUM 15
Risk Treatments in Place: Engine Guards The engine fan and alternator bells, pulleys and gears are guarded. These guards mus whilst this item of plant is in operation.	st be present and fully functional	and serviceable at all tim
References: ASINZS4024.1601	HIGH 22	MEDIUM 15
Risk Treatments in Place: Beacon Risk Treatments in Place: Beacon This item of plant is fitted with a safety beacon. This beacon must meet the following or - Is visible up to 200m in all directions (allowing for intermittent obstruction from the plant - Is fitted in the most appropriate location on machine to maximise visibility without riski NOTE: more than one beacon may be fitted to meet these criteria.	int structure whilst the plant is the	of plant fitted is in operat
OPERATIONAL MALFUNCTION	HIGH 22	LOW 2
Risk Treatments in Place: Plant Modification The plant is in original condition.		
References: ISO31000	The second s	
	HIGH 21	MEDIUM 15
ni i mili i di Birro Tu Gorantez Esta	exits. These must be functional ar	nd accessible at all times
Risk Treatments In Place: Two Operator Exits The operator cabinwork area on this item of plant has a minimum of two (2) possible e whenever the item of plant is manned, whether during operation or maintenance activit References: AS5327	ties	

plant 👸

ROPS	the second s	Prelim. Risk Rating	Residual Risk Rating
mito	CRUSHING	HIGH 21	MEDIUM 15
A Roll Over his standar	ments in Place: ROPS Protective Structure (ROPS) to ISO 3471, ISO 12117.1 or 2, A d must be attached to the structure at all times. This structure p t all times whilst this item of plant is in operation and according	provides a safety envelope during a rollover. A	warning label re: wearing o
Reference	IS: AS4987, AS2294, ISO3471	by sourcens must be worn at an unles during o	perauon.
1	CRUSHING	HIGH 21	LOW 5
Risk Treat	ments in Place: FOPS General		
This item of	plant is fitted with a Level I Falling Objects Protective Structure	e (FOPS). This structure is designed to protect	the operator from small
alling object	ts (e.g. bricks, small concrete blocks, hand tools)		
- operation: Level II - wit - operation:	ating this item of plant a task based risk assessment must be of hstands 1,365 joules (e.g. 20kgs @ 7m drop, 70kgs @ 2m drop s such as highway maintenance, landscaping and other constru- lhstands 11,600 joules (e.g. 200kgs @ 6m drop, 394kgs @ 3m s such as site cleant, overhead demolition or forestry ik assessment must be undertaken before each operation, in p- ame site.	p) uction site services drop)	
	s: ISO10262		
D			In the second second second
	INCORRECT OPERATION	HIGH 20	MEDIUM 14
The controls control leve operation.	s fitted to this item of plant are orientated so that the movement r to the left results in the machine turning to the left. This design	t of the control is consistent with the action of the n feature must be maintained at all times whils	he machine e.g. moving a t this item of plant is in
	s: AS/NZS4024.1906	and the second second second second	al all a sufficiences
Reference			
Reference	STRAINS	HIGH 19	LOW 5
Risk Treat	iments in Place: Controls Ergonomics		
Risk Treat	Iments in Place: Controls Ergonomics Including all levers, buttons, pedais, switches etc. are placed n	ear the operator work position and are easy to	mach and operate during
Risk Treat All controls the execution	Iments in Place: Controls Ergonomics including all levers, buttons, pedals, switches etc, are placed n on of the operator's normal duties. This applies for all persons v	ear the operator work position and are easy to	mach and operate during
Risk Treat All controls the execution	Iments in Place: Controls Ergonomics Including all levers, buttons, pedais, switches etc. are placed n	ear the operator work position and are easy to	mach and operate during
Risk Treat All controls the execution	Iments in Place: Controls Ergonomics including all levers, buttons, pedals, switches etc, are placed n on of the operator's normal duties. This applies for all persons v	ear the operator work position and are easy to	mach and operate during
Risk Treat All controls the execution Reference Risk Treat	Iments in Place: Controls Ergonomics Including all levers, buttons, pedals, switches etc, are placed n on of the operator's normal duties. This applies for all persons v s: AS/NZS4024 1901 STRIKING, BURNS Iments in Place: Hydraulic Hose Failure Shield	ear the operator work position and are easy to within the 95th percentile of the normal populat HIGH 19	reach and operate during on distribution. LOW 5
Risk Treat All controls the execution Reference Risk Treat This item of	Iments in Place: Controls Ergonomics including all levers, buttons, pedals, switches etc, are placed n on of the operator's normal duties. This applies for all persons v ss: AS/NZS4024 1901 STRIKING, BURNS Iments in Place: Hydraulic Hose Failure Shield plant is fitted with a sturdy, permanent shield(s) between the b	ear the operator work position and are easy to within the 95th percentile of the normal populat HIGH 19	reach and operate during on distribution.
Risk Treat All controls the execution Reference Risk Treat This item of during a ho	Iments in Place: Controls Ergonomics including all levers, buttons, pedals, switches etc, are placed n on of the operator's normal duties. This applies for all persons v is: AS/NZS4024 1901 STRIKING, BURNS Itments in Place: Hydraulic Hose Failure Shield I plant is fitted with a sturdy, permanent shield(s) between the h se or component failure. This shield(s) must be present and ful	ear the operator work position and are easy to within the 95th percentile of the normal populat HIGH 19	reach and operate during on distribution.
Risk Treat All controls the execution Reference Risk Treat This item of during a ho	Iments in Place: Controls Ergonomics including all levers, buttons, pedals, switches etc, are placed n on of the operator's normal duties. This applies for all persons v ss: AS/NZS4024 1901 STRIKING, BURNS Iments in Place: Hydraulic Hose Failure Shield plant is fitted with a sturdy, permanent shield(s) between the b	ear the operator work position and are easy to within the 95th percentile of the normal populat HIGH 19	reach and operate during on distribution.
Risk Treat All controls the execution Reference Risk Treat This item of during a ho	Iments in Place: Controls Ergonomics including all levers, buttons, pedals, switches etc, are placed n on of the operator's normal duties. This applies for all persons v is: AS/NZS4024 1901 STRIKING, BURNS Itments in Place: Hydraulic Hose Failure Shield I plant is fitted with a sturdy, permanent shield(s) between the h se or component failure. This shield(s) must be present and ful	ear the operator work position and are easy to within the 95th percentile of the normal populat HIGH 19	reach and operate during on distribution.
Risk Tread All controls the executik Reference Risk Tread This item of during a ho Reference Risk Tread Risk Tread Risk Tread	Iments in Place: Controls Ergonomics including all levers, buttons, pedals, switches etc, are placed n on of the operator's normal duties. This applies for all persons w es: AS/NZS4024 1901 STRIKING, BURNS Iments in Place: Hydraulic Hose Failure Shield rplant is fitted with a sturdy, permanent shield(s) between the h se or component failure. This shield(s) must be present and ful se: AS4024, ISO4413, AS2671 INCORRECT OPERATION, SLIPPING Iments in Place: Control Levers/Pedals/Buttons	ear the operator work position and are easy to within the 95th percentile of the normal populat HIGH 19 hydraulic hoses and any body parts of the oper ly functional at all times whilst this item of plan HIGH 17	reach and operate during on distribution. LOW 5 ator to provide protection t is in operation.
Risk Tread All controls the executik Reference Risk Tread This item of during a ho Reference Risk Tread Risk Tread Risk Tread	Iments in Place: Controls Ergonomics Including all levers, buttons, pedals, switches etc, are placed in on of the operator's normal duties. This applies for all persons v is: AS/NZS4024 1901 STRIKING, BURNS Itments in Place: Hydraulic Hose Failure Shield It plant is fitted with a sturdy, permanent shield(s) between the h se or component failure. This shield(s) must be present and ful the SA4024, ISO4413, AS2671 INCORRECT OPERATION, SLIPPING	ear the operator work position and are easy to within the 95th percentile of the normal populat HIGH 19 hydraulic hoses and any body parts of the oper ly functional at all times whilst this item of plan HIGH 17	reach and operate during on distribution. LOW 5 ator to provide protection t is in operation.



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Make Volvo Model ECR18E Type Excavator - Small (0 - 9.9 Tonne)

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-	HAZARD(S)	Pretim Risk Rating	Residual Risk Ratio
×	SLIPPING	MEDIUM 12	LOW 6
ate acce	afmenta in Place: Operator Work Area Access/Egress as and egress to the catan/work area(s) must be maintained a age; located at a height so as to not cause undue body stress	I all times whilst this item of plant is in operation. Its and strains with three points of contact available	It must be non slip, free e to personnel at all tim
Always Always Nevar c	net must - face the item of plant during access and egress maintain three points of contact during access and egress any an object(s) in tisiher hand(s) during access and egress ump off machine.		
	es: A56327		100
×	FALLING, SLIPPING	MEDIUM 12	LOW 6
lisk Trea	stments in Place: Access/Egress Instruction Label tion label is fitted adjacent access/egress areas to advise all p	ensome of the following -	
Always Ensure Never ju	face the item of plant during access and egress maintain three points of contact during access and egress the steps are clean imp off machine. must be clear and legible at all times whilst this item of plant in as: 19031000	s in operation.	
eterenc	es: 18031000		and the second second
	POOR VISIBILITY, COLLISION	MEDIUM 12	MEDIUM 11
his item of peration.	stments in Place: Operator Mirror of plant is fitted with at least one rear vision mirror. This mirror	must be fully functional and clean at all times whit	sit this item of plant is in
	es: ISO5006		1
COVER	ELECTRIC SHOCK, BURNS	MEDIUM 12	LOW 6
li batterie he constr	atments in Place: Battery Cover is fitted to this item of plant are constrained to prevent displace raint and cover must be present and fully functional end service es: AS/A254024 1201		
+	INCORRECT OPERATION, SLIPPING	MEDIUM 9	LOW 4
W work an	timents in Place: Work Area Floors wa floors are non-slip and free from damage & debris.		
150.	must remain non-slip and free from damage & debris, includin	ig rubbish, tools and other items, at all times while	it this item of plant is in
Øit	BTRAINS	MEDIUM 9	LOW 1
he opera	Itments in Place: Operator Seat for seat fitted to this item of plant must remain free from dama as: AS/NZS4024.1401. ISO20474-	ge and lears, and be permanently and securely fit	ted at all times.
8	BURNS	MEDIUM 9	LOW 5
he engine	Itments in Place: Exhaust e exhaust on this item of plant is fitted with a guard to prevent i unctional and serviceable at all times whilst this item of plant is	injury to any person and control the risk of initiatin in operation.	g a fire. It must be pres
	IDS: AS/NZ54024 1201	COMA INCOME IN THE REAL PROPERTY OF THE REAL PROPER	

Make Votvo Model ECR10E Type Excevator - Small (0 - 0.9 Tonne)

MACHINE

plant 🍅

		Pretim, Risk Rating	Residual Risk Ratio		
X Risk Treat	CURRENT OR PREVIOUS STRUCTURAL DAMAGE	CRITICAL 25	MEDIUM 15		
Regular che	Iments in Place: Structural Integrity				
components	acks for structural damage must be undertaken. Look for cracks in tr 8. etc.	ames/chassis (current or repaired), bends	s or damage to structural		
References: ISO31000					
35	and the second second				
x	INCORRECT OPERATION	HIGH 22	MEDIUM 15		
Risk Treat	Iments in Place: Maintenance Manual		12		
The manufa	manufacturer's maintenance manual(s) has been supplied for this tem of plant				
	ual(s) must be available at all times to all users and maintenance st with these handbook(s) prior to maintaining or repairing this item of	PRET.			
A complete of plant pric	risk assessment/JSEA must be undertaken covering all inspection, x to use.	maintenance, servicing and transportation	n requirements of this pie		
			and the second		
A full asses	isment of the competence of people using the book(s) must also be	Indertaken			
Reference	es: Work Health & Safety Act & Regulations-, Occupational Health	Safety Act & Regulations	3.23		
SF-	STRIKING, BURNS		1		
Y_		HIGH 22	MEDIUM 15		
Risk Treat	Iments in Place: Hydraulic Damage		1		
The myorau	Aic hoses to this item of night are two to a	Tarnet demonstration	20		
that hoses	are free from damage and that protection is in place at all times wh stom system should be conducted regularly and documented as part	yerrai damage arising from contact with 5	he plant structure. Ensure		
and protect	tion system should be coost stad may last	of your plant safety programme.	caon of the hydraulic hos		
weterence	es: AS4024, ISO4413, AS2671				
1	CRUSHING	HIGH 22	MEDILIM 15		
Risk Tree	Iments in River Bass	high 22	MEDIUM 15		
Risk Treat	Iments in Place: ROPS Damage	and the second			
Risk Trea The Roll O operation.	Iments in Place: ROPS Damage ver Protective Structure (ROPS) fitted to this item of plant must rem	and the second			
operation.	Imenta in Place: ROPS Damage wer Protective Structure (ROPS) fitted to this item of plant must rem 88: AS2254, ISO3471	and the second			
operation.	ver Protective Structure (ROPS) fitted to this item of plant must rem es: AS2294, ISO3471	and the second			
operation.	ver Protective Structure (ROPS) fitted to this item of plant must rem	ain free from damage at all times whilst th			
Reference	ver Protective Structure (ROPS) fitted to this item of plant must rem 88: AS2294, ISO3471 OPERATIONAL MALFUNCTION	and the second	is Rem of plant is in		
Risk Trea	ver Protective Structure (ROPS) fitted to this item of plant must rem es: AS2294, ISO3471 OPERATIONAL MALFUNCTION Itments in Place: Major Fluid Leaks	ain free from damage at all times whilst th HIGH 22	is item of plant is in		
Reference Risk Trea This tem o wheel hubs	ver Protective Structure (ROPS) fitted to this item of plant must rem es: AS2294, ISO3471 OPERATIONAL MALFUNCTION timents in Place: Major Fluid Leaks of plant must remain fitte from leaks at all times whilst in operation (b. s. sterring and hydraulics). Development of a more link in operation (b.	ain free from damage at all times whilst th HIGH 22	is tem of plant is in		
Reference Risk Trea This tem o wheel hubs	ver Protective Structure (ROPS) fitted to this item of plant must rem es: AS2294, ISO3471 OPERATIONAL MALFUNCTION timents in Place: Major Fluid Leaks of plant must remain fitte from leaks at all times whilst in operation (b. s. sterring and hydraulics). Development of a more link in operation (b.	ain free from damage at all times whilst th HIGH 22	is item of plant is in		
Risk Trea This item o wheel hubs detected m	ver Protective Structure (ROPS) fitted to this item of plant must rem es: AS2294, ISO3471 OPERATIONAL MALFUNCTION Itments in Place: Major Fluid Leaks If plant must remain the from leaks at all times which a particular	ain free from damage at all times whilst th HIGH 22	is tem of plant is in		
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Risk Trea This item o wheel hubs detected m	ver Protective Structure (ROPS) fitted to this item of plant must rem es: AS2294, ISO3471 OPERATIONAL MALFUNCTION timents in Place: Major Fluid Leaks of plant must remain fitte from leaks at all times whilst in operation (to , sterring and hydraulics). Development of a major leak will require tust be repaired within 1-14 days.	ain free from damage at all times whilst th HIGH 22	is tem of plant is in		
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Risk Trea Reference Risk Trea Dhis hem o wheel hubs detected m Reference Risk Trea	ver Protective Structure (ROPS) fitted to this item of plant inust rem es: AS2294, ISO3471 OPERATIONAL MALFUNCTION itments in Place: Major Fluid Leaks of plant must remain first from leaks at all times whilst in operation (t s, sterring and hydraulics). Development of a major leak will require uait be repaired within 1-14 days. es: ISO31000 OPERATIONAL MALFUNCTION itments in Place: Service Records	ain free from damage at all times whilst th HIGH 22 hs includes engine, transmission, cooling this flam of plant to be stood-down until in	is tem of plant is in LOW 2 system, ar, fuel, drive fir epaired. Minor leaks		
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	Prelim. Risk Rating	Residual Risk Rating
HAZARD(S)	MEDIUM 9	LOW 4
INSTABILITY, COLLISION	et ha docum	
Risk Treatments in Place: Tracks The tracks and track components must be inspected as part of a "pre start" checklist. Th	hese inspections must be com	
safety programme. References: ISO20474-		

## SECTION 6 IMAGES AND NOTES



front



**Right Side** 





quick hitch ID



450mm bucket

450mm bucket ID



Excavator - Small (0 - 9 9 Tonne)

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300mm bucket ID



Front work lights

rear work lights



Beacon

Fire extinguisher



Battery

diesel fill point



engine ID

engine

and By



Make Volv Model ECRIBE Type Excavator - Small (0 - 9.9 Tonne)

Sarial Numb

Assessed By

Date

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Type Excavator - Small (0 - 9.9 Tonne)

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control lever

hour meter

Serial Number

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Date



Switch panel

operators manual



Machine ID



service stickers

## NOTES



Make Volvo Model ECRIBE Type Excavator - Small (0 - 9 9 Tonne)

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Model ECRISE Type Excavator - Small (0 - 9.9 Tonne)

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