# For Earth, For Life

# **HAZARD IDENTIFICATION and RISK ASSESSMENT**



Assessment Date	Assessment Location	Revision
Monday, 20 March 2017	Kubota Tractor Australia Warehouse, Truganinina, Victoria	0

# Assessment Team A.Pedemont (Technical Engineer)

	Unit Assessed		
	<b>Evaluation Sample</b>	Australian Speci	fication Production
Type of unit	✓		
	Model	Item Code	Serial Number
Base Unit (Model 1)	SVL75-2HC		35693
Base Unit (Model 2)	SVL75-2H		34145
Attachment 1			
Attachment 2			
Attachment 3			

Section 1: Machine Specifications Section
Section 2: Risk Assessment Tables Section

Section 3: Hazard Identification and Risk Assessment

Section 4: Required Risk Controls

Kubota Tractor Australia Pty Ltd. has conducted this risk assessment as part of its duties to manager the risks associated with its products as required by the Work Health and Safety Act. The hazard identification and risk assessment has been performed on a standard unit as described above for flat ground application.

It is the responsibility of the dealer supplying the machine to conduct their own hazard identification and risk assessment to include any options, accessories or third party attachments installed to the machine.

The manager of the machine must conduct a thorough risk assessment specific to their application, carefully considering the environment, obstacles, operator competency and local regulations before operating the machine.

This risk assessment is void unless all the risk controls in section 4 have been completed and all the actions in section 3 J have been completed.

Alex Pedemont
Technical Engineer - CE Equipment
Date: 30/03/2017

RELEASED BY:

Benjamin Binns
Engineering Manager
Date: 30/03/2017

# **TECHNICAL DATA**

			KUBOTA CTL (Com	pact Track Loader)
Model name			SVL7	75-2
Туре			Open Cab	Closed Cab
Operating we	ight (including ope	rator's weight) kg(lbs.)	4100 (9039)	4225 (9314)
	Туре		Water cooled 4 cycle dies EPA T	
	Model name		KUBOTA V33	807-CR-TE4
	Total displaceme	nt cc(cu.in)	3331 (2	203.3)
Engine	Engine power	SAE J1995 gross kW(HP)	55.4 (7	74.3)
	Liigine power	SAE J1349 net kW(HP)	51.3 (6	58.8)
	Rated speed	rpm	240	0
	Low idling speed	rpm	115	0
	Rated operating of	apacity kg(lbs.)	1043 (2	2300)
	Tipping load	kg(lbs.)	2980 (6	5570)
	Breakout force	Bucket kg(lbs.)	2814 (6	5204)
	breakout force	Lift arm kg(lbs.)	2162 (4	1766)
Performance	Travel speed	Fast km/h(mph)	11.5 (	7.1)
	Haver speed	Slow km/h(mph)	7.5 (4	1.7)
	Ground pressure	(With operator)	Standard track	Wide track
		kPa (kgf/cm²) [psi]	39.2 (0.40) [5.6]	33.0 (0.34) [4.7]
Battery capac	ity		12V RC: 1600 m	in, CCA 900A
Pressure connection	Max.displacemen	t (Theoretical) L(US gal)/ min	66.0 (1	7.4)
for attachments	Max. pressure	Mpa (kgf/cm²) [psi]	22.1 (224 [318	1)
Fuel tank capa	acity	L(US gal)	93 (24	1.6)

NOTE:
Specifications subject to change without notice.

Reference Standard	AS 2012.1:1996 **	AS 2012.2:1996 **	Maximum Nois	e exposure ***
Location	Bystander (7m)	Operator's Ear	Bystander (7m)	Operator's Ear
Model 1	83	80	N/A	N/A
Model 2	79	88	N/A	N/A

<sup>\*</sup> A-Weighted equivalent noise level exposure for 8 hours operation

<sup>\*\*\*</sup> Test conducted with unit stationary in configuration which creates maximum noise level exposure (maximum engine RPM with attachment (mower deck etc) engaged, air conditioner on etc.)

Manufacturers Declaration of compliance - Operator protec	tive structure	
	Structure type	Reference Standard
The machine is supplied with a factory fitted operator protection structure which complies with the listed	TOPS	
standards	ROPS	OSHA 1926.1001, ISO3471 2008
	OPG (FOPS)	OSHA 1926.1003, ISO3449 2005

Manufacturers Declaration of compliance - Seat Belt	
The machine is supplied with a factory fitted seatbelt which	Reference Standard
complies with the listed standards	ISO 6683:2005, SAE J386

The machine is supplied with a factory fitted seatbelt which	Reference Standard
complies with the listed standards	ISO 6683:2005, SAE J386

The manufacturer has declared to the importer that the machine has been manufactured to the listed standards.

#### Reference Standard

SAE J1388, SAE J153, ISO 6750, ISO 10968, ISO 6405-1/-2, ISO 2867:2006, SAE J1388, SAE J/ISO 6682, SAE J/ISO 5353, ISO 14397-1/-2, ISO 14397-1, ISO 6683:2005, SAE J1042, ISO 3457, ISO 3471:2008, ISO 3449:2005, SAE J674, ISO 12508, ISO 3411, ISO 5006, ISO 10265:1998, ISO 9244, ISO 10533:1993, ISO 3471:2008, ISO 3449:2005, SAE J386, ISO 6683:2005, ISO 9533-1989, SAE 1388, ISO 10533:1993, SAE J2513, ISO 24410, ISO 13333:1994, ISO 12509:2004, ISO/DIS 15818, SAE J674

<sup>\*\*</sup>Test conducted in accordance with AS2012 series, with unit stationary operating at rated Engine RPM with all attachments disengaged

# 2. Risk Assessment Tables

### Likelihood Table

	Category	Description	
1	Rare	Cannot imagine that this could occur (over 5 years)	
2	Unlikely	Incident is possible, but unlikely to occur (2 years - 5 years)	
3	Slight	Incident is possible to occur (1 year - 2 years)	
4	Likely	Incident could occur at some time (1 month - 1 year)	
5	Almost Certain	Incident will occur at some time (0 - 1 month)	

### **Consequences Table**

	Category	Description	
1	Negligible	Effects unlikely to last until the next day.	
2	Minor	Likely to affect employee the next day.	
3	Moderate	Injury needs formal medical treatment.	
4	Major	Injury requiring extensive medical treatment and/or hospitalisation.	
5	Severe	Injury resulting in death or permanent incapacity.	***************************************

### Risk Score Calculator

				Consequence	S	
		Negligible	Minor	Moderate	Major	Severe
	Almost Certain	Medium	High	Very High	Very High	Very High
poc	Likely	Medium	Medium	High	Very High	Very High
Likelihood	Slight	Low	Medium	High	High	Very High
.ike	Unlikely	Low	Low	Medium	Medium	High
	Rare	Low	Low	Low	Medium	Medium

## **Risk Priority Table**

	Priority	Action	
Very High	1	Immediate action required	
High	2	Implement short term safety controls immediately	
Medium	3	Short term safety controls implemented to minimise risk of injury	
Low	4	Monitor activity	

	Hazard Identification				]-	- G		
Hazard Source	Need to access hazard	Potential Consequence	Current Controls	Hierarchy of	£	Con Con	Risk	Action Required
Closing engine hood against the body	The operator and maintenance person are required to access under the engine hood to conduct daily inspection, troubleshooting and regular maintenance.	Pinching fingers Crushing limbs	The rear engine bood has a manual safety pin to lock the hood in the open position. Decal cautions personnel to ensure that the safety pin is installed. The top engine hood is supported in the open position by a gas struts. Top hood has safety decal fitted cautioning personnel of the risk of pinching point.	4. Engineering	3. Slight	1. Negligible	4. Low	
Moving operator controls	The operator is required to manually actuate controls to operate the machine.	Pinching fingers	The design and layout of the operator controls eliminates the risk of pinching by providing large gaps between moving controls.	1. Elimination	1. Rare	1. Negligible	4. Low	
Pivot points between loader arm and hydraulic rams	The operator and maintenance person is required to access the loader pivot points for greasing and maintenance	Crushing body parts	Lift arm stopper fitted for use when performing maintenance with boom in the raised position. Operators manual provides SOP for safety installing lift arm stopper. Danger and warning safety decals are fitted to the machine which identifies the crushing/plinching hazard. Warning decal instructs personnel to fit lift arm stopper when working on the machine with lift arms raised.	4. Engineering	2. Unlikely	3. Moderate	3 Medium	The manager of the machine must ensure that. The operator and maintenance person are trained and follow safe working procedures. The operator and maintenance person must ensure that. Maintenance is only conducted with lift arm stopper fitted when boom is fully raised.
Opening and closing of cabin door	The operator and maintenance person is required to enter and exit the cabin door.	Crushing body parts	Left and right handles provided on inside of the door with look levers directly beside. This ensures personnel hands and fingers are away from the crushing zone when opening/closing.  Look pins prevent the door from inadvertently falling once opened.  Operators manual provides safe working procedure for opening and closing cabin door.  Safety decats caution personnel to engage look pins to prevent the from inadvertently falling and contacting head/hands.	4. Engineering	2. Unlikely	2. Minor	<b>4.</b> low	
Movement of hydraulic quick hitch.	The operator requires access the quick hitch to connect attachments to the loader. The maintenance person is required to access the quick hitch for greasing and maintenance.	Crushing fingers	A danger safety decal is fitted to the machine which identifies the crushing hazard.  The operator's manual provides safe working instructions including:  - switching off the engine before connecting attachments to the loader.  - conducting maintenance with the loader lowered and the engine switched off eliminating any moving parts.	5. Administration	2. Unlikely	3. Moderate	a. Medium	The manager of the machine must ensure that the operator and maintenance person are trained and follow safe working procedures.  The operator must ensure that:  All bystanders are clear of the machine when fitting attachments.  The engine is switched off before connecting hydraulic hoses to the loader.

	High prossure hydraulic all	of cabin structure for I maintenance		
to locate oil leaks.  The operator is required to connect and disconnect implement hoses to the hydraulic quick connectors.	ork in situations with		Need to access hazard	
Skin / eye İrritation		Crushing of body parts  Serious injury Crushing Death	Potential Consequence	
the hydraulic hoses are ISO rated ensuring quality material and operating performance.  The hydraulic hoses are protected by a hose sock reducing the likelihood of wear and failure.  The hydraulic hoses are routed inside the loader arms protecting them from damage.  The operators manual provides safe working procedures for inspecting and locating oil leaks, depressurising the hydraulic system and connecting/disconnecting hydraulic hoses.  The operators manual provides instructions for the maintenance person to regularly inspect and replace damaged hydraulic hoses.	The machine is fitted with a protective ROPS/FOPS structure which complies with ISO 3471, ISO 3449 and OSHA regulations.	Gas struts fitted with locking mechanism which engages when cabin is in the fully raised position. Stopper pin fitted to fix cabin in the fully raised position and prevent it from falling. Safety decal warns personnel to not go under raised cabin structure without the stopper pin locked. The operators manual provides safe working procedures for raising and lowering the cabin structure safely.  The loader is supplied with a lift arm stopper and fitting instructions for installation. The operator's manual provides safe working instructors including: never standing under the raised loader without the lift arm stopper installed.	Current Controls	
5. Administration	4. Engineering	4. Engineering	Hierarchy of Control	
2. Unlikely	2. Unlikely	2. Unlikely	H	
4. Major	2. Minor	4. Major 5. Severe	Con	Velt rendicay
3 Medium	4. Low	3. Medium.	Risk	,
The manager of the machine must ensure that: the operator and malinerance person are trained and follow safe working procedures the machine is maintained in accordance with the manufacturer's maintained accordance with the mydraulic hoses and associated components are replaced when damaged  The operator and maintenance person must ensure that they follow the manufacturer's safe working procedure for identifying oil leaks as listed in the operator's manual.		The manager of the machine must ensure that The operator and maintenance person are trained and follow safe working procedures.  The operator and maintenance personnel must ensure that.  Cabhins only raised when parked on a flat and evel surface, engine is switched of fard lift arms are lowered to the ground.  No one enters beneath the cabhin while raising or lowering.  Maintenance and inspection is only carried out with locking mechanism engaged and stopper pin locked in position.  The manager of the machine must ensure:  The operator and maintenance person are training includes the mardatory installation of the lift arm, stopper piers working under the affised loader.  The operator and maintenance person must ensure that:  The operator and maintenance person must ensure that:  No staff or bystanders work under the loader in the raised position without the lift arm stopper installed.	Action Required	

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	attachment.	steep and undulating terrain	Topolist of English Children	Pressurised engine content		A
building, stationary objects and bystanders.	normal operation.		the optimize the required to replienshe engine coolant during maintenance of the machine.	Need to access hazard	Hazard Identification	В
Collision	damage	Roll-over Crushing Serious injury Death		Potential Consequence		С
The machine is fitted with reverse travel alarm and horn to warn bystanders.	The Rated Operating Capacity (ROC) of the machine is determined using the requirements of ISO 14397-1/- 2. Decal fitted inside the cabin displays the rated operating capacity of the machine.	The machine is fitted with a protective ROPS/FOPS structure which compiles with ISO 3471, ISO 3449 and OSHA regulations, providing the operator with a safe zone of clearance in the event of a roll-over. The machine is fitted with a seatbelt compiliant with ISO6683:2005 to restrain the operator and keep them in the safe zone of clearance.  The operator's manual provides safe operating procedures and warnings not to operate the machine in areas where it may tip or stip, including rough and wet terrain.  Alternate emergency exit by removing rear window in the event personnel becomes trapped inside.	The radiator is fitted with a pressure relief cap connected to an overflow bottle.  The operator's manual provides safe working procedures for conducting maintenance on the engine including waiting for the engine to cool.  The radiator cap has a safety decal fitted warning the operator and maintenance person not to remove the cap while the engine is hot.	Current Controls	Risk Control	D
4. Engineering	5. Administration	4. Engineering	4. Engineering	Hierarchy of Control		Е
2. unlikely	2. Unlikely	1. Rare	2. Unlikely	ш		₽
3. Moderate	3. Moderate	5. Severe	3. Moderate	Con	Residual Risk	മ
3. Medium	3. Medium	3. Wedium	3 : Medium	Risk	7	I
The internager of the machine must ensure that: the operator is trained and follows safe working procedures.  The unit is required to be fitted with a rotating beacon, if required by local regulation/worksite requirements.  The training includes conducting a risk assessment of the area and identifying hazards. Supplied rear vision mirror kit to be fitted to the unit.	The manager of the machine must ensure that the operator is trained and follows safe working procedures:  the training includes conducting a risk assessment to identify the material type, estimate the maximum loads and check the suitability of the machine configuration (loader / attachment) before starting work.  The correct machine is supplied for the application.	The manager of the machine must ensure that: -the operator is trained and follows safe working proceduresthe training includes conducting a risk assessment of the area and identifying hazards, ditches, steep and wet surfaces.  The operator must ensure that they conduct a site specific risk assessment before operating the machine on steep or undulating terrain they wear the seatbelt at all times.	The manager of the machine must ensure that the operator and maintenance person are trraned and follows safe working procedures. The machine is maintained in accordance with the machine is maintained in accordance with the manufacturer's daily inspection check and maintenance schedule.  The operator and maintenance person must ensure that they.  Follow the manufacturer's safe working procedures when working on the engine including waiting for the engine to cool before opening the radiator.	Action Required		<b>_</b>

Contacting underground services including high voltage conductors and higas supply lines					, belt and pulley	Hazard Source		A
The machine may be required to operate around hidden underground services including electrical conductors.	The machine may be required to operate around overhead high voltage conductors	The maintenance person may be required to remove hydraulic lines or components.	The operator and maintenance person are required to open the engine hood/side cover to conduct daily inspection and regular maintenance.	The operator is required to access and egress the driving position.	The operator and maintenance person may be required to conduct troubleshooting and diagnostics with the hood open.	Need to access hazard	Hazard Identification	В
Electrocution Severe Burns Gas Leak Explosion Death	Electrocution Severe Burns Death	Serious injury	movement	Slipping Falling	Cutting fingers / hands Drawing in Entanglement	Potential Consequence		С
None	A safety docal is fitted to the machine warning the operator of death resulting from contact with overhead high voltage electrical conductors.	The operators manual provides safe working procedures prior and during any maintenance or inspection.	The gas strut is matched to the weight of the engine hood ensuring slow and controlled movement.	Handralls provided as well as steps with non-slip surface reducing the likelihood of slipping or falling. Operators manual provides safe working procedure for mounting and dismounting the machine.	The engine fan, belt and pulley is isolated by the engine hood during normal operation.  A safety decal warns the operator and maintenance person not to touch the fan when the engine is operating.  The operator's manual instructs the operator and maintenance person not to wear loose clothing around rotating components.	Current Controls	Risk Control	D
5. Administration	5. Administration	5. Administration	4. Engineering	4. Engineering	4. Engineering	Hierarchy of Control		т
1. Rare	1. Rare	1 Rare	1. Rare	1. Rare	2. unlikely	돠		F
5. Severe	5. Severe	4. Major	1. Negligible	2. Minor	4. Major	Con	Residual Risk	6
3: Medium	3. Medium	3. Medium	4. Low	4. Low	3. Medium	Risk		H
The manager of the machine must ensure that: the operator is trained and follows safe working procedures the training must include conducting site specific risk assessments to identify hidden underground services providing relevant and up-to-date information from local authorities regarding the location of underground services. Dail before you dig decal is to be added to the unit before delivery to customer.	The manager of the machine must ensure that the operator is trained and follows safe working procedures the training includes awareness of local regulations regarding the minimum operating distance from high voltage and other overhead electrical conductors.  The operator conducts a site specific risk assessment to identify overhead electrical conductors  a spotter is provided when work must be conducted around overhead electrical conductors.	The manager of the machine must ensure that: - the maintenance person is trained and follows safe working procedures.			The manager of the machine must ensure that: The operator and maintenance person are trained and follow safe working procedures. The operator and maintenance person must ensure that: A risk assessment is conducted before conducting troubleshooting or maintenance on the machine with covers removed.	Action Required		_

2. Minor 4. Low	2. Unlikely	3. Isolation	reducing the likelihood of accidental contact.	2	The second of th	
2. Minor	2. Unlikely	3. Isolation				Hot hydraulic components
			The exhaust manifold is isolated by the engine hood during normal operation.	Burns	Accidental contact by hands.	HOT EXTRAUST MANIFOLD
2. Minor	2. Unlikely	3. Isolation	The radiator is isolated by the engine hood during normal operation.	Burns		I Av. Laviawi
**************************************			The exhaust muffer is isolated by a heat shield. A safety decal is fitted to the machine warning the operator of the hot surfaces.			Hat radiany
/ 3. Moderate	2. Unlikely	4. Engineering	Machine is fitted with a Inhibit DPF regeneration switch. This switch disables the regeneration cycle when working around people, animals, plants and flammable materials.			
			In e operators manual instructs the operator to keep the machine away from other people, animals, plants and flammable material during a reneration burn. In addition, it instructs the operator to look around the machine before undertaking a DPF regeneration and to keep the area near DPF muffler clean and free from flammable material.	burns	Advisor and the live infilter driven for extracts flags.	
y 2. Minor	z. Unlikely	3. isolation	In e exhaust muffler is isolated by a heat shield. A safety decal is fitted to the machine warning the operator of the hot surfaces.			DPF Recentration Cycle
					Accidental contact by hands or limbs	Hot muffler
3. Moderate	2. Unlikely	4. Engineering				
····	Commence of the Commence of th		The operator's manual instructs the operator to keep the machine clean and free of debris that can cause a fire hazard.	***************************************		Mercenine de description de la companya de la compa
***************************************			The machine is fitted with a turbo and DPF fulfilling the requirements of a spark arrestor.	Fire Smoke inhalation	The machine may be required to operate in dry grass during hot and high fire danger periods.	The caused by spark emissions
Con	НТ	Hierarchy of Control		Potential Consequence	Need to access hazard	Hazard Source
Residual Risk	35 (A) (A)		Risk Control		Hazard Identification	
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	Hazard Identification		Risk Control			Danidual Disk		
Hazard Source	Need to access hazard	Potential Consequence	Current Controls	Hierarchy of	Н	Con	Risk	Action Required
Engline noise - 8 hour equivalent exposure at operator's ear = 80.2 dBA	The operator is required to be seated on the machine to operate.	Discrientation Permanent hearing loss	A hearing protection decal is fitted to the machine instructing the operator to wear approved hearing protection while using the machine. Machine is below limit of 85 dBA (LEQ8HR)	5. Administration	2. Unlikely	4. Major	3. Meclium.	The manager of the machine must ensure that: - the operating procedures the training includes awareness of the risk of permanent hearing loss due to continuous exposure to excessive noise the saile work procedure to include the mandatory use of appropriate hearing protection PPE.  The manager of the machine must carry out a site risk-assessment to determine whether PPE is required in the working environment.
riammable fuel		Fire Explosion	The machine is fitted with a safety decal by the fuel fill point to warn the operator and maintenance person not expose naked flame.  The operator's manual provides warnings and instructions against smoking and naked flames around flammable fuel.	5. Administration	2. Unikely	3. Moderate	3. Medium	The manager of the machine must ensure that the operator and maintenance person are trained and follow safe working procedures.  The manager must provide appropriate fire extinguisher at the refuelling station.
Thousand Cast. Giall		Eye irritation Breathing difficulties Asthma	The cabin structure is fully sealed from outside airborne debris when from door is closed.	4. Engineering	2. Unlikely	3. Moderate	3: Medium	The manager of the machine must ensure that the operator and maintenance person are trained and tollow safe working procedures, any staff member who suffers from breathing difficulties or asthma is provided with appropriate PPE as regular and action plan.  The operator and maintenance person who suffers from breathing difficulties and/or asthma must ensure they have an asthma action plan carry their prescribed inhaler carry their prescribed inhaler use the appropriate PPE as required.
EXIMUST Gass	The operator and maintenance person are required to conduct daily inspections and regular maintenance requiring the engine to be run.	Breathing difficulties Asphyxiation Death	The operator's manual provides warnings and instructions against the operation of a combustion engine in an enclosed or poorly ventilated space.	5. Administration	1. Rare	5. Severe	3. Medium	The manager of the machine must ensure that the operator is trained and tollows safe working procedures:  the training includes being aware of the risks to breathing when operating a combustion engine in enclosed and poorly vernitated areas

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	Hazard Identification		Risk Control			Residual Risk	] 	·
Hazard Source	Need to access hazard	Potential Consequence	Current Controls	Hierarchy of	£	Con	Risk	Action Required
Blind spot created by rear of the machine	The machine may be required to operate around building, stationary objects and bystanders.	Collision	The machine is fitted with reverse travel alarm to warn bystanders. Rear vision mirror supplied with machine for fitment.	4. Engineering	3. Slight	4. Major	<b>3</b> (1)	The manager of the machine must ensure that: -the operator is trained and follows safe working procedures -the training includes conducting a risk, assessment of the area and identifying hazards, objects and people that may cause a collisionSupplied rearyision mirror kit to be fitted to the unitThe unit is required to be fitted with a rotating beacon, if required by local regulation/worksite requirements.
Extreme hot ambient		Heat exhaustion Dehydration	Machine is fitted with a air conditioning system.	4. Engineering	3. Slight	2. Minor	3. Medium	The manager of the machine must ensure that: - the operator is trained and follows safe working procedures: - the safe working procedure includes limiting strenuous work in extreme hot temperatures and taking regular breaks and diniking pienty of water.
Hain / wind / cold weather	dine	Numbness Reduced fine motor skills Hypothermia Frost bite	The machine is fitted with a heater and cabin Reduced fine motor skills structure which is sealed from outside conditions. Hypothermia Frost bite	4. Engineering	3. Slight	2. Minor	3. Medium	The manager of the machine must ensure that: -the operator is trained and follows safe working proceduresthe safe working procedure includes limiting the time spent working in extreme cold, wet or windy conditions and taking regular breaks to warm up and keeping dry.
intovertient without the operator at the driving position	Unauthonsed operation of the machine while not seated in the driving position	Collision, Uncontrolled operation Crushing	The machine is fitted with an lockout armrests that lockout hydraulic system when armrests are raised.	4. Engineering	1. Rare	2. Minor	4. Low	
Machine operating with guards removed	The operator and maintenance person may be required to diagnose and troubleshoot a fault requiring the machine to operate with the covers and guards removed.	Entanglement Crushing Crushing in Major injury Death	Safety decals are fitted to the machine to warn the operator and maintenance person to close the guards before operating the machine.	5. Administration	1.1 Ra a e	5. Severe	y Section Chim	The manager of the machine must ensure that the operator and maintenance person are trained and follow safe working procedures. The operator and maintenance person must ensure that:  The operator and maintenance person must ensure that:  I a risk assessment is conducted before operating the machine is stationary and shut down with all moving components secured before entering the machine.  all staff and bystanders are clear of the machine when the machine is required to continue operating with the covers removed to operating with the covers removed to diagnostics.

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	4. LOW	<sup>*</sup> 2. Winor	2. Unlikely	6. PPE	Access to the engine oil fill point is open reducing the liketinood of spilling.  The operator's manual provides warnings and instructions for the wearing of PPE while handing oils.	Skin / eye irmtation A	onduct daily inspections and replenish engine oil as required.	4
The manager of the machine must ensure that: -the operator is trained and follows safe working procedures  The operator must ensure that: -they follow the manufacturers instructions for relieving hydraulic pressure and not strike the hydraulic hose coupler to relieve pressure.	3. Medium	3. Moderate	2. Unlikely	5. Administration	i ne operator's manual provides sate working procedures for the relieving of hydrautic system.		pressure to connect implements to the CTL.  The presents and solithereness to the CTL.	Replanishing and ne oil
The manager of the machine must ensure that: Personnel are trained and follow safe working procedures when engaging disengaging attachments Personnel read and understand all requirements set out in the operators manual: Only attachments which comply with ISO24410 to be used.	3. Medium	4. Major	2. Unlikely	5. Administration	Safety decal warns the personnel to lower lifts arms fully before engaging/disengaging attachments and to ensure that pins are fully engaged.  The operator's manual provides safe operating instructions for engaging/disengaging attachments.  The operator's manual states to only use attachments which comply with ISO24410.		attachments.  The operator is required to engagerousengaging	from the front end loader
The manager of the machine musterisure that Personnel are trained and follow safe working procedures when transporting the machine. Transportation equipment is in safe working order and safeshed the minimum requirements set out in the operators manual:	3. Međium	4. Major	1. Rare	5. Administration	The operators manual provides safe working procedures for safely transporting the machine.		ine machine is required to be transported on a trailer or truck	trailer or truck
The manager of the machine must ensure that: Personnel are trained and follow safe working procedures when loading/unfoading the machine. Loading/unfoading equipment is in safe working order and satisfied the minimum requirements set out in the operators manual.	3: Medium	4. Major	1. Rare	5. Administration	The operators manual provides safe working procedures for safely loading/unloading the machine.		ne macrine is required to be loaded/unloaded for transportation	transport traile/fruck
The manager of the machine must ensure that: - Personnel are trained and follow safe working procedures when liting the machine Lifting equipment is in safe working order and satisfied the minimum requirements set out in the operators manual.	3. Medium	4. Major	1. Rare	5. Administration	The operators manual provides safe working procedures for safely litting the machine. Safely decals warm personnel not to use point on top of the cabin to lift the machine.	Collision	i re machine may be required to be lifted for transport or access.	trailer/truck or other device
Action Required	Risk	Con	돠	Hierarchy of Control	Current Controls		Need to access hazard	Hazard Source
النب	<b>~</b>	Residual Risk			Risk Control		Hazard Identification	

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The operator and maintenance person are required to conduct daily inspections and replenish engine oil as required.	The operator and maintenance person are required to conduct daily inspections and replenish engine oil as required.	The operator and maintenance person are required to conduct daily inspections and replenish transmission oil as required.	Need to access hazard	B Hazard Identification
Skin / eye irritation Fire		Skin / eye irritation	Potential Consequence	С
Access to the cliesel fuel fill point is open reducing the likelihood of spilling.  The operator's manual provides warnings and instructions for the wearing of PPE while handing diesel fuel.  The operator's manual warns the operator not to expose naked flames (smoking etc) when refuelling the machine.	Access to the engine coolant fill point is open reducing the likelihood of spilling.  The operator's manual provides warnings and instructions for the wearing of PPE while handing coolant.	Access to the transmission oil fill point is open reducing the likelihood of spilling.  The operator's manual provides warnings and instructions for the wearing of PPE while handing oils.	Current Controls	D Risk Control
6. PPE	6. PPE	6. PPE	Hierarchy of Control	m
2. Unlikely	2. Unlikely	2. Unlikely	НТ	्र १८ १४
2 Minor	2. Minor	2. Minor	Can	G Residual Risk
4. Low	4. Low	4. Low	Risk	H
			Action Required	_