

PLANT RISK ASSESSMENT

WOOD CHIPPER



MODEL:		SERIAL NUMBER:	
IDENTIFIED RISK		RISK TREATMENTS IN PLACE	RESIDUAL RISK
Incorrect operation	HIGH	<p>1) Operation Handbook: The manufacturer's operation handbook has been supplied for this item of plant. This handbook must be available at all times to all potential operators and supervisory staff. All potential operators must read and be familiar with this handbook prior to operating.</p> <p>2) Pre-op Checklist Wood Chipper: A pre-operational checklist is available for this wood chipper. All operators must complete this checklist prior to operating this wood chipper.</p> <p>3) SOP Wood Chipper: Safe Operation Procedures are available for this wood chipper. The information in the Safe Operation Procedures must be followed at all times whilst operating this wood chipper.</p> <p>4) Control Labels: All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to their purpose and method of operation. These labels must be maintained in a clean and serviceable condition at all times.</p> <p>5) Tow Point: This item of plant has clear towing instructions. These must be adhered to at all times when towing this item of plant. This instruction label must be serviceable at all times whilst this item of plant is in operation.</p> <p>6) Maintenance Manual: The manufacturer's maintenance manual(s) has been supplied for this item of plant. These manual(s) must be available at all times to all users and maintenance staff of this item of plant. All users and maintenance staff must read and be familiar with these handbook(s) prior to maintaining or repairing this item of plant.</p>	MEDIUM
Crushing, falling	HIGH	This item of plant has a hazard warning label re: "No Passengers/No Ride". It must be present, clear and legible at all times whilst this item of plant is in operation.	MEDIUM
Entanglement, shearing, pinching	HIGH	All the belts, pulleys and gears are guarded. These guards must be present, fully functional and serviceable at all times whilst this item of plant is in operation and the labels re: do not open or remove while engine is running must be in place and easily seen at all times.	MEDIUM

Assessment conducted by Ryan McKenna on behalf of Global Machinery Sales on 01/06/2020. To be reviewed on 01/06/2021.



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Poisoning, explosion, burns	HIGH	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).	MEDIUM
Entanglement	HIGH	1) Entanglement Label: This item of plant has hazard warning labels re: Entaglement, stand clear. These labels must be present and fully functional and serviceable at all times.	HIGH
	MEDIUM	2) PTO Mastershield Label: This PTO (Power Take Off) outlet(s) or PIC (Power Input Connection) connection(s) on this item of plant have clear and legible hazard warning labels re entanglement fitted. This label(s) must be in place at all times whilst this item of plant is in operation.	MEDIUM
	CRITICAL	3) PTO Mastershield: This PTO (Power Take Off) outlet(s) or PIC (Power Input Connection) connection(s) on this item of plant are guarded. This guard(s) must be in place at all times whilst this item of plant is in operation. If this guard(s) is not present this item of plant must not be used.	MEDIUM
	CRITICAL	4) PTO Shaft Guards and Labels: The PTO (Power Take Off) shaft guard(s) and hazard warning label(s) fitted are present and fully functional. These must be serviceable at all times whilst this item of plant is in operation.	MEDIUM
	HIGH	5) Engine Guards: The engine fan and alternator belts, pulleys and gears are guarded. These guards must be present and fully functional and serviceable at all times whilst this item of plant is in operation.	MEDIUM
Striking	HIGH	The rear/side of this item of plant has a hazard warning label re: flying objects, stand clear. These labels must be present and fully functional and serviceable at all times.	MEDIUM

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Hearing loss	HIGH	<p>1) Hearing Protection Label - Bystanders: The hazard warning labels re: wearing of hearing protection for bystanders attached to this item of plant refer to the level of noise produced. Permanent hearing damage will result if hearing protection is not worn. These labels must be present, clear and legible at all times whilst this item of plant is in operation.</p> <p>2) Hearing Protection Label - Operator: The hazard warning label(s) re: wearing of hearing protection attached to this item of plant refer to the level of noise produced. Permanent hearing damage will result if hearing protection is not worn. These labels must be present, clear and legible at all times whilst this item of plant is in operation.</p>	MEDIUM
Entanglement, shearing, burns	HIGH	The engine fan and alternator belts, pulleys and gears are guarded. These guards have clear legible hazard warning labels re do not open or remove guards while engine is running. These labels must be present, legible and easily seen at all times whilst this item of plant is in operation.	MEDIUM
Crushing, entanglement, striking, collision	HIGH	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.	MEDIUM
Crushing, collision	HIGH	This item of plant is fitted with a safety device (chain) which will keep this item of plant attached to the towing unit in the event of failure to the primary tow coupling. Use of this device is mandatory on public roads and use at all other times is highly recommended. The size and capacity of all components of this device must be proportional to the mass of this item of plant and conditions under which this item of plant is towed. The condition of this device must be monitored as part of your operational "pre start" checklist. If any faults are detected towing of this item of plant must not occur until repair or replacement by a competent person occurs.	MEDIUM
Entanglement, cutting, shearing	HIGH	This item of plant is fitted with an emergency stop device. The emergency stop must meet all of the following criteria whilst this item of plant is in operation: 1. Is operational 2. Is coloured red with yellow background 3. Is clearly labeled as to purpose and method of operation 4. Is easily accessible to the operator(s) at all times whilst operating this item of plant 5. Resetting of emergency stop does not automatically restart machine 6. Is located at each operator control station.	MEDIUM

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Crushing, entanglement, shearing, burns, pinching	HIGH	This machine is designed so that the operator is isolated from all danger zones whilst at the operator position. This condition must exist at all times whilst this item of plant is in operation.	MEDIUM
Striking, burns	HIGH	1) Hydraulic Hoses: This item of plant has hydraulic hoses. These hoses must be inspected each day or before each use for wear and tear. If there are visible signs of wear immediate action must be taken to control the risk arising from this wear. These inspections must be documented. Hydraulic fluid at high pressure can penetrate the skin, never use any part of your body to check for leaks. If oil penetrates the skin seek medical advice immediately. Always use a piece of cardboard or similar to check for suspected leaks. Hydraulic pressure can be stored and is a hazard. Before disconnection or connection of hydraulic hoses complete the following steps: 1. Stop engine 2. Keep all bystanders clear of the work area 3. Refer to operators manual as to methods to release pressure 4. Wait 5 minutes.	MEDIUM
	HIGH	2) Hydraulic Hose Failure Shield: This item of plant is fitted with a sturdy, permanent shield(s) between the hydraulic hoses and any body parts of the operator to provide protection during a hose or component failure. This shield(s) must be present and fully functional at all times whilst this item of plant is in operation.	LOW
	HIGH	3) 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.	MEDIUM
Collision	HIGH	This item of plant is fitted with lighting to indicate presence, turning and braking. All of these lights must be fully functional whilst this item of plant is in operation in areas of reduced light. If any of these lights stop working the operation must cease immediately and the faulty light be repaired before operation can continue in the areas of reduced light.	MEDIUM

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RISK SCALE			
CRITICAL	HIGH	MEDIUM	LOW

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Operational malfunction	HIGH	1) Plant Modification: The plant is in original condition.	LOW
	HIGH	2) 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, 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.	LOW
	HIGH	3) Service Records: Service and maintenance records are available for this item of plant. 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.	MEDIUM
Strains	HIGH	All controls including all levers, buttons, pedals, switches etc, are placed near the operator work position and are easy to reach and operate during the execution of the operator's normal duties. This applies for all persons within the 95th percentile of the normal population distribution.	LOW
Incorrect operation, slipping	HIGH	All controls including all levers, buttons, pedals, switches etc. must be kept non-slip and free from damage at all times.	LOW
Electric shock, burns	MEDIUM	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.	LOW
Burns	MEDIUM	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 at all times whilst this item of plant is in operation.	LOW
Current or previous structural damage	CRITICAL	Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc.	MEDIUM
Instability, collision	HIGH	The tyres and wheel components must be inspected as part of a "pre start" checklist. These inspections must be documented as part of your plant safety programme.	MEDIUM

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