


Plant Hazard Analysis & Risk Assessment

Model: Laski Predator 56	Date: 02/03/2026
	<p>Person conducting / reviewing assessment: S. Parlevliet</p> <p>This Hazard Identification and Risk Assessment document is Model specific. It is based on the knowledge that all new machines of this model were/are produced to the same specification and design. It assumes all examples of this exact model currently in service to be as per the original specification, and to have been and continue to be operated and maintained in accordance with the Manufacturers requirements, and with all applicable statutory and regulatory requirements of an original example of the Model for which it was prepared. This Assessment must be reviewed by all stakeholders as required:</p> <ul style="list-style-type: none"> • Having regard to the manufacturers approved options • Having regard to the general arrangement of miscellaneous equipment or facilities that may be provided on the plant according to the end users requirements or specification • According to the particular circumstances under which the plant is used and maintained • As new Hazards are identified and/or as risks are reassessed • As existing risk control measures are revised or new risk control measures are introduced and implemented • As and when work procedures are altered or revised • Having regard to any unauthorised alterations or modifications made to the design or operation of the equipment <p>Monitor has made every attempt to identify all reasonably foreseeable operating circumstances in preparing this Assessment, however no guarantee as to the completeness of this Assessment is provided or implied. It is the responsibility of Owners, Employers and Operators to identify all hazards associated with the use of this equipment specifically applicable to the task to be carried out and to where the equipment is to be used or located. They must assess the risk potential for each of the identified hazards and ensure that all reasonably practicable steps are taken to ensure those risks are effectively controlled.</p> <ul style="list-style-type: none"> • All operators must be trained and competent in the safe use of this particular piece of equipment, and hold appropriate qualifications as required by applicable regulatory requirements • Operators of the equipment to which this Plant Risk Assessment refers must read and understand the Instructions for Use and Warnings contained within the Operators Manual prior to use • All Daily Pre-Start Checks, Routine and Periodic Inspections, Maintenance and Repairs to this equipment must be carried out in accordance with the manufacturer's requirements.

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ID	Description of Hazard Potential		Activity	Risk control measures already implemented	Risk	Supplementary risk control measures	Risk score
	Origin	Consequence					
1	Operator Competency						
1.1	<p>Untrained operator, not following proper operating procedures.</p> <p>Distracted operator.</p> <p>Following a poor system of work.</p> <p>Operator working alone.</p>	<p>Entanglement (amputation/death)</p> <p>Laceration / cuts / bruises / fractures</p> <p>Serious injury or death</p>	<p>Set up</p> <p>Operation</p> <p>Maintenance</p>	<p>Operation instructions explained in operator's manual</p>	<p>C4 Extreme</p>	<p>Train operators on safe use of the plant.</p> <p>Operator training should include at least the following:</p> <ul style="list-style-type: none"> • pre-operation inspections • safe operation of plant • regular maintenance tasks • understanding of plant operation • capabilities and limitations • emergency procedures <p>Do not operate the plant unless proper training has been received.</p> <p>Ensure operator's manual is kept with the plant for reference.</p> <p>Do not operate the plant when distracted, ill, excessively fatigued, or under the influence of drugs or alcohol.</p> <p>Implement appropriate system of work based on manufacturer's recommendations (e.g. operating instructions shown in operator's manual).</p>	<p>B1 Low</p>
1.2	<p>Misuse</p> <p>Unauthorised use of plant</p>	<p>Entanglement (amputation/death)</p> <p>Laceration / cuts / bruises / fractures</p>	<p>Operation</p>	<p>Operator's manual warns about not using the plant for other than its intended purpose.</p>	<p>C4 Extreme</p>	<p>Do not use the plant for any other purpose than its intended use as explained in the operator's manual.</p>	<p>C4 Extreme</p>

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		Serious injury or death				Do not operate the plant unless proper training has been received. Keys are not to remain in an unattended machine.	
2	Plant Limitations						
2.1	Slope operation	Roll over	Driving Operation	Operator's manual recommends that you operate the machine once you consider the following criteria: <ul style="list-style-type: none"> • configuration • machine maintenance • operating speed of the machine • conditions of the terrain • fluid levels, and • track condition and tension. Retractable tracks allow for greater stability.	C3 High	Avoid any conditions that can lead to tipping the machine. Avoid driving on ground too soft to support the machine's weight. Avoid operating the machine across the slope. Always ascend and descend slopes with the cutting head up hill. If the machine has to be stopped on an incline, make sure that the machine is pointing either up or down the slope. Also chock both tracks at the downhill end.	B2 Low
3	Operation						
3.1	Damaged machine controls	Crushing Impact	Set up Operation	Machine controlled by remote control.	C2 Medium	Regularly inspect machine controls.	A1 Rare
3.2	Moving chipper into position	Overturning Crushing	Driving Set up	Follow Operator's manual recommendations (as listed above). Machine fitted with retractable tracks.	C4 Extreme	Carry out job site risk assessment to determine suitability of the site before commencing any work. Avoid driving on steep ground; find alternative routes whenever possible.	B2 Low

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						Be aware of performance features of the equipment in operation and the effects on machine stability. Do not stand on the lower side of the plant while driving on steep ground.	
3.3	Set up	Struck by flying debris	Operation	Operator's manual states when in use, flying debris could be thrown past guards and injure bystanders if they are in these areas.	D3 High	Ensure only operators are within work area - ensure the exclusion zone is in place and operational. NEVER stand or allow anyone else to be directly in front of machine.	B2 Low
3.4	Prestart inspection	Laceration / cuts / bruises / fractures	Operation	Prestart inspection as per manufacturers recommendation. Grinder fitted with <ul style="list-style-type: none"> - Emergency stop button - Self-returning control levers - Flashing light indicator - Safety band. 		Ensure any fitted safety devices or equipment are in good condition and functional during Pre-start check.	A1 Low
3.5	Uncontrolled movement of plant components	Entanglement (amputation/death) Laceration / cuts / bruises / fractures Serious injury or death Muscular stress / Musculoskeletal Disorder	Set up Operation Maintenance Cleaning Troubleshoot	Prestart inspection as per manufacturers recommendation. The control levers will re-centre themselves in a neutral position when released. No movement should occur.	C3 High	Isolate power to machine and remove the main switch key when performing maintenance and cleaning tasks. Implement 'tag out' procedure to isolate faulty/out of order plants. Maintenance to be carried out by a competent person.	B2 Low

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						Pay attention to hazard decals to machine.	
3.6	Operator safety	Entanglement (amputation/death) Laceration / cuts / bruises / fractures Serious injury or death	Set up Operation Maintenance Cleaning Troubleshoot	Ensure operator: <ul style="list-style-type: none"> - Has no loose clothing or jewellery, hair tied back - Has snug fitting PPE with no cuffs or strings - Has clothing tucked in where applicable. - Is provided with correct rated hearing protection. - Safety footwear. 	D4 Extreme	May require dust mask dependant on type of timber being chipped.	B2 Low
3.7	Grinder operation	Entanglement (amputation/death) Laceration / cuts / bruises / fractures Serious injury or death Muscular stress / Musculoskeletal Disorder	Operation	Run slowly up and start cutting with smaller wood chips and go on faster if possible according to the actual conditions. The size of cut layers depends on speed and cutting depth. After starting (even repeatedly) and before cutting it is very important to reach engine speed exceeding 2150 rpm. Having reached this speed limit all the operating functions (particularly cutting head drive, cutter arm up/down and left/right) shall be activated. Should this speed limit of 2150	D4 Extreme	Ensure material to be chipped is clear of metal, stones, plastic, fauna, pests, diseases, rope or other contamination. While working, the operator should stand at least 3 m away from the cutting head. If any person, children or animals' approach while cutting (within a 20 metre radius of the machine), then stop working immediately. Use smooth, comfortable speeds while operating. When it is desired to cut smaller roots, it may be more effective to	B2 Low

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				rpm not be reached, all the above mentioned operating motions/functions remain inactive. You can only move the cutter forward / back, widen the tracks or move the blade.		do so before, rather than after, cutting the stump. Should the chip buildup become excessive when cutting, shut off the cutting wheel, wait for the cutting wheel to stop rotation, retract the machine from the stump and clear the chips to one side.	
3.8	Cutting wheel	Struck by flying debris Entanglement (amputation/death) Laceration / cuts / bruises / fractures - Serious injury or death Vibration Aggressive grabbing causing stump grinder to hop	Operation	Ensure the cutting wheel only has the recommended number of teeth installed. Be aware that the Laski blades are in pairs as the RH and LH ones. In addition to that they can be straight or bent. As to their design they are not interchangeable with each other, and it is not possible to replace them by another brand. Blades edge regrinding requires high demands for keeping optimal cutting edge shape. While regrinding it is necessary to keep the same weight of particular blades because of balance of their rotating mass.	D4 Extreme	Clear away debris regularly. If chipper begins to vibrate or shake violently, stop work immediately and stop machine. Always stop machine, wait for moving parts to stop and lock out power before removing any cutting teeth.	B2 Low

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3.9	Faulty/out of order, or poorly maintained plant	Entanglement (amputation/death) Laceration / cuts / bruises / fractures Serious injury or death Muscular stress / Musculoskeletal Disorder	Operation Emergency Maintenance	Operator's manual outlines plant maintenance schedule. Current maintenance inspections up to date as per manufacturers recommendation.	B4 High	Always perform pre-operation inspection before operating the plant. Implement 'tag out' procedure to isolate faulty/out of order plants. Do not use an 'out of order' plant. Record all faults in logbook. Perform plant maintenance as per manufacturer's maintenance schedule. Keep maintenance records / plant logbook up to date.	B1 Low
3.10	Refuelling	Explosion Fire			B4 High	When refuelling: <ul style="list-style-type: none"> • Keep away from ignition sources • Do not smoke • Avoid spilling fuel over hot engine. 	A2 Low
3.11	Engine exhaust pipe	Burn	Operation	Exhaust pipe guarded by exhaust shield. "Hot surface" decal in place.	C2 Medium	Do not touch exhaust pipe when hot.	A1 Low
3.12	Plant modifications after completion of risk assessment.	Crushing Overturning	Operation Set up		C5 Extreme	Ensure modifications made to the plant are inspected, assessed, and approved by a competent person. Review hazard analysis and risk assessment after plant modifications.	B1 Low

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4	Transport / Handling						
4.1	Loading and unloading – driving on/off	Roll over Crushing	Transport	Make sure that the entire width of the tracks will be on the ramps before driving on the ramps. Use low speed / low engine RPM on slopes / ramps.	C4 Extreme	Follow appropriate loading procedures including using weight rated ramps, have ramps at a low inclination, all person clear from the loading zone and placing the heavy end towards the front of the tray or tow hitch on a trailer.	B2 Low
4.2	Failure of chains used for tying down / tie down straps	Roll over Crushing	Transport	Plant is fitted with designated tie down points.	C5 Extreme	Use tie-down points provided on the plant to secure it for transportation.	B2 Low
4.3	Transporting machine	Overturning Impact	Transport		C3 High	Ensure machine is in transportation (locked) mode before departing. Clear machine of loose woodchip material before departing.	A2 Low
5	Plant Failure						
5.1	Power Failure Burst hydraulic hose	Crushing Overturning Burn Skin irritation	Set up Operation Maintenance		A3 Medium	Check hydraulic hose condition during periodic maintenance. Report and “tag out of service” if identified.	A2 Low
5.2	Excessive hydraulic oil pressure.	Impact Crushing	Set up Operation		C3 High	Check pressure settings during preventative maintenance.	A1 Low
5.3	Inadequate maintenance procedures	Crushing Impact	Maintenance	Maintenance procedures included in Operator’s Manual.	C3 High	Allow only qualified service personnel to perform maintenance tasks.	A2 Low

RISK MATRIX						ACTION	HEIRACHY OF CONTROLS	
		CONSEQUENCE					<p>EXTREME – Do not proceed, until further control measures are implemented to lower the risk. Senior management attention required.</p> <p>HIGH – Review and introduce additional controls to lower level of risk. Needs senior management attention.</p> <p>MEDIUM – Monitor and maintain supervision and controls. Specify management responsibility.</p> <p>LOW – Monitor and manage by routine procedures and monitoring.</p>	<ol style="list-style-type: none"> 1. Elimination – controlling the hazard at the source 2. Substitution – e.g. replacing one substance or activity with a less hazardous one 3. Isolation – e.g. use of barriers to shield or isolate the hazard, enclosures for noisy machinery, installing guards on machinery 4. Engineering – e.g. design and install equipment to counteract the hazard 5. Administration – policies and procedures for safe work practices 6. Personal Protective Equipment – e.g. respirators, ear plugs, face masks, safety glasses, safety shoes
		1. Insignificant	2. Minor	3. Moderate	4. Major	5. Catastrophic		
LIKELIHOOD	E. Almost Certain Is expected to occur immediately or within a short timeframe	HIGH	HIGH	EXTREME	EXTREME	EXTREME		
	D. Likely Will probably occur in most circumstances	MEDIUM	HIGH	HIGH	EXTREME	EXTREME		
	C. Possible Could happen and has occurred here or elsewhere	LOW	MEDIUM	HIGH	EXTREME	EXTREME		
	B. Unlikely Unlikely to occur	LOW	LOW	MEDIUM	HIGH	EXTREME		
	A. Rare Not expected to occur	LOW	LOW	MEDIUM	HIGH	HIGH		

CONSEQUENCE DESCRIPTORS			
SEVERITY	SAFETY	ENVIRONMENT	BUSINESS
5. Catastrophic	Potential for incident resulting in serious damage and/or fatality	The aspect is legally or contract regulated and has the potential for a disastrous long term impact resulting in prosecution.	Loss > \$1M
4. Major	Potential for incident resulting in serious damage and/or permanent disabling illness or injury	The aspect is legally or contract regulated and has the potential for a serious long term impact resulting in prosecution.	Loss of service provision
3. Moderate	Potential for incident resulting in significant damage and/or temporary disabling illness or injury	Significant environmental aspect with short term impact resulting in improvement notice.	Loss \$100K - \$1M
2. Minor	Potential for incident resulting in moderate damage and/or requiring medical treatment.	The aspect is legally or contract regulated and has the potential for a moderate reversible short term impact resulting in an improvement notice.	Prolonged reduction in service provision or productivity
1. Insignificant	Potential for incident resulting in minor damage and/or injury requiring first aid treatment	The aspect is not legally or contract regulated and has the potential for a minor negligible impact.	Loss \$10K - \$100K