QR Code for Plant Pack, Manuals

EWP Plant Pack

SuperElevate 22.11

Make :	**Zeus**	
Model:	**Zeus 22.11**	**Diesel/240/ Lithium**
Year of Manufacture :	**2015**	**Unit- 10**
Serial Number:	**1404156**	
10 Year Major Inspection:	**N/A**	

Contents

	Page
Contents , Insurances	2
Blank	3
Data sheets	4-5
Plant Design Registration	6
Service Report	7-15
Operator Familiarisation	16-17
Risk Assessment	18-33

Insurance	Policy Number	Expiry
Industrial Special Plant- Hired in Plant	12TI019725ISP	30 June 2025
Motor Fleet Insurance	CPG20184680	30 June 2025
Primary Public and Product Liability	AU00012293L120A 408896BAA	30 June 2025
Marine Cargo Insurance	Hiller Marine	30 June 2025
PHG (EME CEP-004.1)	CS22060806A/00/03	30 June 2025
Professional Indemnity	B074022082200	22 August 2025
Management Liability	P_ML/0/235734/19/K9	30 June 2025
QLD Workers Comp	WNA031050083	30 September 2025
NSW Workers Comp	104004501	30 June 2025
VIC Workers Comp	13009276	30 June 2025
SA Workers Comp	28043111	30 June 2025
WA Workers Comp	PE1964723GWC	30 June 2025
PHG Workers Comp NSW	109910101	30 June 2025
PHG Workers Comp QLD	WSM220768759	30 June 2025

SUPERELEVATE™ 22.11

22 m	10,9 m
250 kg	max. 5,20 m min. 4,52 m
0,94 m/ 1,97 m	3130kg
4,0 m x 4,85 m	HATZ Diesel Lithium Battery

The Preston Hire SuperElevate™ 22.11 spider lift is great for larger jobs, offering a maximum vertical reach of 22m, plus an outreach of 11m even with two people in the basket. Variable leg placement comes standard, enabling the unit to be set up in a number of configurations, the narrowest being a leg stance of only 1985mm, which is ideal when units are deployed in driveways, walkways or between buildings.

At only 900mm wide and 1980mm high, the Preston Hire SuperElevate™ 22.11 can be transported into most worksites with ease. A powerful Hatz diesel engine, auto levelling, wireless remote control and basket rotation are just some of the standard features that set the Preston Hire SuperElevate™ 22.11 apart from all others.

PRESTON HIRE
COUNT ON US

1800 440 550 | prestonhire.com.au

SPECIFICATIONS SUPERELEVATE™
22.11

STANDARD EQUIPMENT

- Quickly removable aluminum basket
- Basket rotation
- i-Performing electric pump (patented) with auto Start/Stop system
- 240V power outlet in basket
- Radio remote control with interactive and multi-lingual display
- Track width adjusting system with indipendent axle
- Multi-area stabilizer setting (3 different set-up positions)
- Moment limiting device
- Automatic center position of turret
- Self Stabilizing system
- Automatic START & STOP of engines and RPM control
- Proportional and simultaneous electro-hydraulic controls
- Proportional track drive with hydraulic breaking system
- Double drive speed system with safety control
- Driving Lateral slope alarm with safety stop
- Driving possible with jib boom raised (with selector)
- Interblock outriggers/booms
- Emergency push-button with engine stop
- Hand pump for the emergency lowering of platform
- Modem connection plug for diagnosis/software upgrading in remote
- Diesel engine HATZ
- Blue Lithium pack
- Asymmetric stability area
- Upper boom working angle - 20°
- Go-Home function

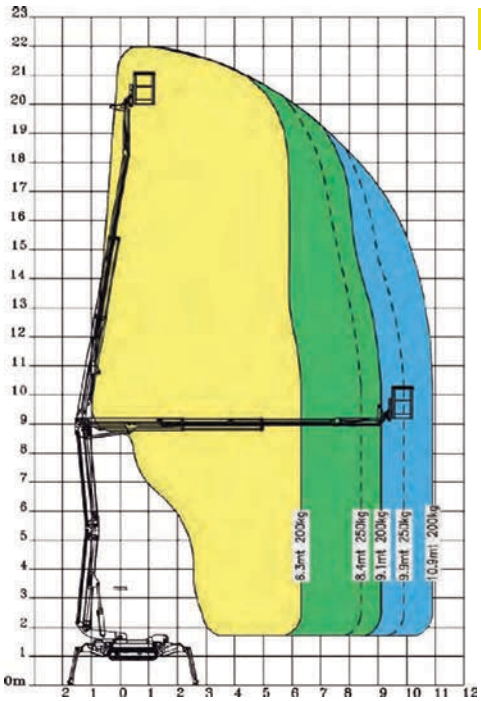
WEIGHT DISPERSIONS

Load on each footplate:

Model	KG	KN
22.11	1998kg	19,59kN

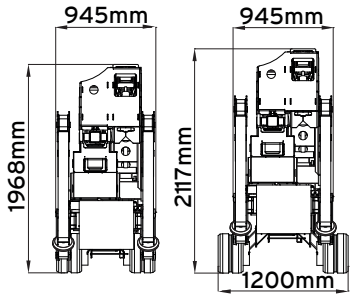
Load on tracks:

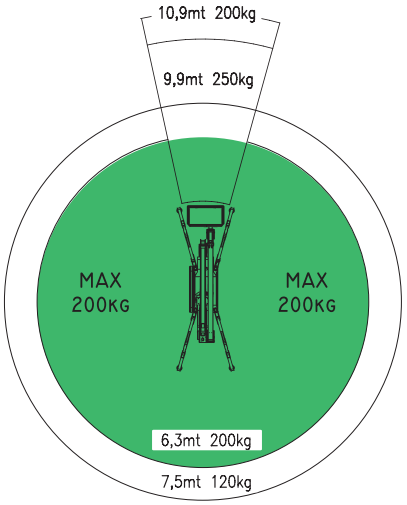
Model	Area Under Tracks	Weight Machine	PSI
22.11	1001,69 sq in	3130kg	6,82psi

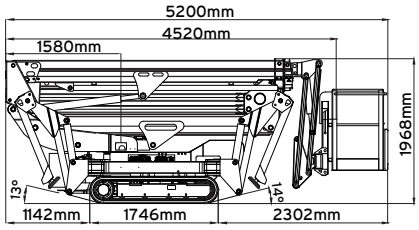


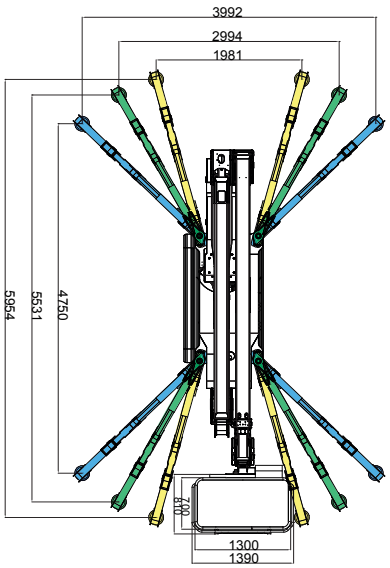
SPECIFICATIONS

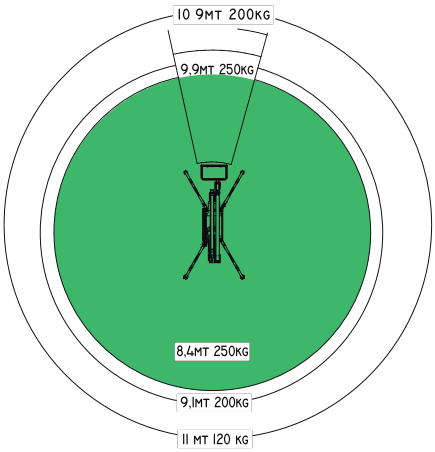
Working height, max.	22m
Horizontal outreach, max	10,9m/200kg 9,9m/250kg
Basket capacity	250 kg
Basket dimension	1,3m x 0,7m x 1,1m
Turret rotation	340°
Overall weight	3130kg
Travel speed	1,5 km/h
Gradeability, max.	28%
Combustion engine	HATZ Diesel
Electric motor	Lithium Battery

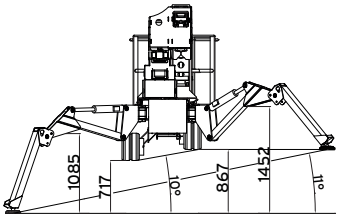












PRESTON HIRE

COUNT ON US

1800 440 550 | prestonhire.com.au

Occupational Health and Safety Act 2004, OHS Regulations 2007
Equipment (Public Safety) Act 2004, Equipment (Public Safety) Regulations 2007

NOTICE OF PLANT DESIGN REGISTRATION

Plant Type	Boom Type Elevating Work Platform
Representational Drawing(s)	C22-3.1.2 - Date: 30/06/14
Design Description and Extent	Model/ID No. Zeus 22.11
Technical Information	Propulsion Type Self Propelled, Max. SWL 200 kg, Max. Working Height (to bottom of basket) 19.60 m, Max. Radius 11.00 m and Boom Type Knuckle Boom
Maker	BLUELIFT S.R.L
Confirmation Number	**V1401895**
Date of Confirmation	27 August 2014
Published technical standards or engineering principles (as listed by designer and confirmed by design verifier)	AS1418.10 – 2011 Cranes, Hoists & Winches Part 10: Elevating Work Platforms

IMPORTANT INFORMATION

1. This notice applies only to the above design, which has been registered according to the above-named Regulations. WorkSafe has not verified that the designer has complied with the design obligations prescribed by the Regulations or the above mentioned technical standards or engineering principles.

2. The plant owner will require this confirmation and, therefore, a copy of it should be supplied to the manufacturer, so that it can in turn be provided to the supplier and owner with the plant or equipment.

3. The Regulations require the designer to keep and maintain, in a suitable state for examination, all records that the Regulations require for 10 years.

4. WorkSafe reserves the right to audit the registered design at any time to assess compliance with the above Acts and Regulations. If an audit is undertaken, WorkSafe may ask the person seeking registration or the plant owner or both to supply detailed information relating to the design of the plant. Design systems of work and documentation may also be audited. If an audit identifies non-compliance with the Acts and Regulations, all plant built to that design may require modifications and may be prohibited from use.

5. This notice is automatically invalidated if the design is altered to an extent that requires new measures to control risk. A person must not use, or cause or allow plant manufactured to the altered design to be used at a workplace unless WorkSafe has confirmed registration of the alteration.

6. You should quote the registration number in all correspondence to WorkSafe regarding this design. Any queries should be addressed to the WorkSafe's Licensing Branch, 1300 852 562.

7. This notice will also be considered a notice of Plant Design Registration under the Equipment (Public Safety) Regulations 2007.

Leanne Harwood
Licensing Manager

Job No. 1446

Date: 08:09 07/02/2025
Pickup Time: 17:00 07/02/2025
Job Type: SPIDER LIFT EWP 90 DAY SERVICE INSPECTION REPORT_CHECKLIST
Odometer:
Mechanic: Lachlan Brown

Make/Model: ASPAC 22.11, Fleet# 10
Registration No.:
Registration Due Date:
Year/Build Date: 2015
Fleet No: 10
VIN:
Serial No: 1404156
Engine Type:
Next Service Date: 16/02/2025
Next Service Odometer:

Customer: PRESTON HIRE (NSW) Pty Limited
Phone: 1800 440 550
Email: mike.thomas@prestonhire.com.au , alex.mcrae@prestonhire.com.au, dennis.apted@prestongroup.com.au , nick.papadopoulos@prestonhire.com.au , zac.foley@prestonhire.com.au

Note:
90 day

Lachlan 7-9 7/2/25

Check Sheet

Item	Yes/No	Comment/Part Used
SPIDER LIFT EWP 90 DAY SERVICE INSPECTION REPORT_CHECKLIST		
Job Location:yard		
MACHINE STATUS		
Machine Hours:	✓	3240
Next Service Hours:	✓	3450
CHECKLIST **(√ : Completed, x: Further Work Required)**		
Engine		
Oil Level	✓	
Air Filter clean or replace	✓	
Fuel filter	✓	
Check spark plug (If Applicable)		
Check spark arrestor (If Applicable)		
Check all nuts and bolts are tight	✓	
Fuel tank & filter strainer	✓	
Check pull start & Elec start system	✓	

Check all engine mounts & covers	✓	
12V Electrical		
Check 12v Battery is secure & clean	✓	
Check alternator charge	✓	
HYBRID- Check all batteries & components	✓	
Check all limit switches are operational	✓	
Check all connections are secure	✓	
Check for moisture in connections	✓	
Check on board 12v charger is operational	✓	
Check all safety beacons/lights & alarms	✓	
Check all outrigger lights & lenses	✓	
Test isolator & key switches working on/off	✓	
240V Electrical		
Check test & tag is in date. Date on Tag:	✓	
Test RCD (Residual Current Devices)	✓	
Check 240v plug outlet on platform	✓	
Check 240v plug for damage/water	✓	
Check 240v motor (if applicable)	✓	
Test any on board battery chargers	✓	
Hydraulics		
Hydraulic oil Level	✓	
Hydraulic filters	✓	
Check all components for damage	✓	
Check all hoses & fitting for leaks	✓	
Test emergency lowering devices/valves	✓	
Check control valves for leaks	✓	
Check hydraulic drive motor/brakes/oil	✓	
Check all outrigger cylinders leaks/damage	✓	
Check basket levelling system is operational	✓	
Check lifting cylinder for leaks/damage	✓	

Check all track width cylinders leaks/damage	✓	
Check & test all safety hydraulic valves	✓	
Structure		
Replace track drive motor oil	✓	
Re-tension turret support bolts in/out	✓	
Re-tension drive wheel nuts	✓	
Check chain	✓	
Change slew gearbox oil		
Check track condition, tread & tension	✓	
Check all nuts & bolts are tight & secure	✓	
Check all booms independently for damage	✓	
Check step boards are secure/clean	✓	
Check all telescope wear blocks	✓	
Check turret/slew ring for wear/damage	✓	
Check all cover plates are secured	✓	
Grease telescopic boom & chains	✓	
Grease all points where required	✓	
Check level indicator is operational/secure	✓	
Check undercarriage for cracks/damage	✓	
Functions/Operations		
Check/test weight limits are calibrated	✓	
Load 300kg into basket and test deflection		
Insert scale and calibrate outrigger weights	✓	
Test dead man pedal/switch	✓	
Decals/Warning stickers	✓	
Test all working envelopes	✓	
Test all safety cut outs/switches	✓	
Test all operations on control & panels on all modes i.e diesel, 240v or hybrid	✓	
Test steer functions	✓	

Test Hi/Lo drive function	✓	
Test Auto self-level function	✓	
Test all working envelopes & restrictions	✓	
Check locking pins on alloy basket are secured	✓	
Test emergency stops	✓	
Test safety bar & step is operation in basket	✓	
Fire Extinguisher (if applicable)	✓	
Check for all operator's manuals	✓	
Complete service sticker & sign log book	✓	
JOBCARD		
WORK SUMMARY:	✓	Carry out 90 day inspection test all functions. Test electric working correctly all ok.
ADDITIONAL WORK CARRIED OUT:		
ADDITIONAL WORK REQUIRES:		
PART USED		
Travel (Kms)		
Tolls		
Consumables		
Part Number/Description/Quantity:		
Technician's Name:Lachlan		

Authorised Signature

Date: 07/02/2025

Job No. 1226

Date: 13:36 18/11/2024
Pickup Time: 17:00 18/11/2024
Job Type: SPIDER LIFT EWP 90 DAY SERVICE INSPECTION REPORT_CHECKLIST
Odometer:
Mechanic: Lachlan Brown

Make/Model: ASPAC 22.11, Fleet# 10
Registration No.:
Registration Due Date:
Year/Build Date: 2015
Fleet No: 10
VIN:
Serial No: 1404156
Engine Type:
Next Service Date: 13/08/2025
Next Service Odometer:

Customer: PRESTON HIRE (NSW) Pty Limited
Phone: 1800 440 550
Email: alex.mcrae@prestonhire.com.au, steve.bowden@prestonhire.com.au, dennis.apted@prestongroup.com.au , nick.papadopoulos@prestonhire.com.au

Note:
90 day

Lachlan 9:30-12

Check Sheet

Item	Yes/No	Comment/Part Used
SPIDER LIFT EWP 90 DAY SERVICE INSPECTION REPORT_CHECKLIST		
Job Location:		
MACHINE STATUS		
Machine Hours:	✓	3237
Next Service Hours:	✓	3450
CHECKLIST **(√ : Completed, x: Further Work Required)**		
Engine		
Oil Level	✓	
Air Filter clean or replace	✓	
Fuel filter	✓	
Check spark plug (If Applicable)		
Check spark arrestor (If Applicable)		
Check all nuts and bolts are tight	✓	
Fuel tank & filter strainer	✓	
Check pull start & Elec start system	✓	

Check all engine mounts & covers	✓	
12V Electrical		
Check 12v Battery is secure & clean	✓	
Check alternator charge	✓	
HYBRID- Check all batteries & components	✓	
Check all limit switches are operational	✓	
Check all connections are secure	✓	
Check for moisture in connections	✓	
Check on board 12v charger is operational	✓	
Check all safety beacons/lights & alarms	✓	
Check all outrigger lights & lenses	✓	
Test isolator & key switches working on/off	✓	
240V Electrical		
Check test & tag is in date. Date on Tag:	✓	
Test RCD (Residual Current Devices)	✓	
Check 240v plug outlet on platform	✓	
Check 240v plug for damage/water	✓	
Check 240v motor (if applicable)	✓	
Test any on board battery chargers	✓	
Hydraulics		
Hydraulic oil Level	✓	
Hydraulic filters	✓	
Check all components for damage	✓	
Check all hoses & fitting for leaks	✓	
Test emergency lowering devices/valves	✓	
Check control valves for leaks	✓	
Check hydraulic drive motor/brakes/oil	✓	
Check all outrigger cylinders leaks/damage	✓	
Check basket levelling system is operational	✓	
Check lifting cylinder for leaks/damage	✓	

Check all track width cylinders leaks/damage	✓	
Check & test all safety hydraulic valves	✓	
Structure		
Replace track drive motor oil		
Re-tension turret support bolts in/out		
Re-tension drive wheel nuts		
Check chain	✓	
Change slew gearbox oil		
Check track condition, tread & tension	✓	
Check all nuts & bolts are tight & secure	✓	
Check all booms independently for damage	✓	
Check step boards are secure/clean	✓	
Check all telescope wear blocks	✓	
Check turret/slew ring for wear/damage	✓	
Check all cover plates are secured	✓	
Grease telescopic boom & chains	✓	
Grease all points where required	✓	
Check level indicator is operational/secure	✓	
Check undercarriage for cracks/damage	✓	
Functions/Operations		
Check/test weight limits are calibrated	✓	
Load 300kg into basket and test deflection		
Insert scale and calibrate outrigger weights		
Test dead man pedal/switch	✓	
Decals/Warning stickers	✓	
Test all working envelopes	✓	
Test all safety cut outs/switches	✓	
Test all operations on control & panels on all modes i.e diesel, 240v or hybrid	✓	
Test steer functions	✓	
Test Hi/Lo drive function	✓	

Test Auto self-level function	✓	
Test all working envelopes & restrictions	✓	
Check locking pins on alloy basket are secured	✓	
Test emergency stops	✓	
Test safety bar & step is operation in basket	✓	
Fire Extinguisher (if applicable)	✓	
Check for all operator's manuals	✓	
Complete service sticker & sign log book	✓	
JOBCARD		
WORK SUMMARY:	✓	Carry out 90 day inspection test all functions all working ok. Wash machine all ok
ADDITIONAL WORK CARRIED OUT:		
ADDITIONAL WORK REQUIRES:		
PART USED		
Travel (Kms)		
Tolls		
Consumables		
Part Number/Description/Quantity:		
Technician's Name:Lachlan		

Authorised Signature

Date: 18/11/2024

PRESTON HIRE

SPIDERLIFT EWP 13.76, 16.74, 18.93, 22.11, 32.16
OPERATOR FAMILIARISATION CHECKLIST

WARNING!

ALL operators are required to undergo this specific Familiarization for the Spider Lift EWP. Failure to conduct these checks may results in serious equipment damage and/or personnel injury.

INSTRUCTIONS:

Discuss all key points throughout this induction as below, once deemed competent, tick as required☑.
2 people must complete this Operator Familiarization at a time as there needs to be someone available to lower EWP in case of emergency.

INDUCTION:

FAMILIARISATION SUMMARY FOR KNUCKLEBOOM EWP	Competent ☑
Manuals:	
Manuals- Must be with the EWP at all times.	
Yellow operators Log Book- Must be with the EWP at all times & filled out daily.	
Display how to correctly fill in log book/prestart checklist and where it is located on machine.	
Unit Maintenance	
Explain the service intervals for potential long term hire. 90 day services	
Operator is to contact the equipment owner if a service is required (as per service date sticker).	
Daily Pre Checks: Basket	
Display where the harness is to connect it to machine.	
Explain harness testing for potential long term hire – Working at heights as per site specific policy	
Display how to check alloy basket condition for cracks or damage. Check the safety bars are operational	
Display how to ensure locking pin on alloy basket is inserted.	
Daily Pre Checks: Machine engine and lubricants	
Display how and where to check engine oil.	
Display how and where to check hydraulic oil if possible.	
Display where fuel level is checked and what type of fuel is relevant to that specific machine. *i.e petrol, diesel.*	
Daily Pre Checks: Machine body, booms, hoses, wires	
Display how to visually check all nuts and bolts are tight on entire unit.	
Display how to check track tread condition and slack.	
Display how to visually check all hydraulic hoses, valves for leaks and are secure/safe for operation.	
Display how to visually check for oil, fuel & hydraulic leaks under or around machine.	
Display how to visually check 240v 10amp outlet and plug for moisture or damage.	
Display how to check current test & tag is in date/current.	
Display where the Electrical Monitoring Devices (RCD) are located.	
Control Panel & Operations: Always keep a safe distance from moving equipment, beware of tail spin.	
Display where and how to use the 3 emergency stops.	
Display where the 12v battery isolator, start key and engine key is located, outline their function/purpose.	
Display how the controller works, syncs, where charger batteries are located & auto boom switch in basket	
Display the location of the hour meter. (if required)	
Display how to start and stop the engine in Thermic, 240v & lithium (where applicable).	
Display how to narrow and widen track width. Wider Maximizes stability.	
Display how to drive machine including the hi/lo drive system, speed doubles after 5 sec in a straight line.	
Display where to locate the safety beacons and the purpose of the motion alarm.	
Discuss the weight limiter, the remote indicates basket capacity when at 30, 60, 80, 100%.Stops at 100%	
Discuss the slope degree. Drivability will lock at approx. 8 degrees to prevent topple.	

In the event this occurs lower appropriate stabilizers to prevent tipping, reverse the machine out of the danger zone. In the event of full lock out, call technical support for advice.	
Discuss how to set up the articulated stabilizers and the working envelopes (22-11 only)	
Discuss how to lower the stabilizers, beeping while levelling , solid noise when level, ABCD, sight glass X&Y.	
Display & discuss the minimum track clearance to ground on setting up the outriggers. (Minimum 5 cm)	
Display how to place control in cradle, electromagnets detect and switch to boom functions.	
Specific to 22-11 units, if any stabilizer is in the yellow envelop the remote will be alarming and vibrating. This is an anti crush warning which requires the following authorization. Place Remote in cradle, hold the far left lever down for 7 second.	
Display how to operate all controls. Deadman, Aerial functions, jib, booms, turret, basket tilt and rotate.	
Display what the warning lights are and their meaning/alarm. i.e. movement limiter.	
Display the go home function, note: it will not go home the same way of elevation. Detail and reiterate the booms must be fully home activating sensors for pack up.	
Display how to pack the machine up into the rest position in the correct manner.	
Display how to charge the machine after use. (if required) Keys off , Battery isolator on	
Display how and where to store the machine suitably. *I.e. do not pressure wash and keep out of heavy rain*.	
Emergency Retrieval – only to be used in an emergency situation	
Explain and Demonstrate how to operate hydraulic pump and levers when endothermic and electric power	
Explain and Demonstrate how to use the manual handle and levers when no power available.	
Explain the 340 degree rotation and manual slew no go zone.	
Transportation of the Unit:	
Discuss how the jib lifts up and down for transport clearance.	
Display where the correct tie down locations and dedicated lifting points are.	
Advise that exclusion zones when using and moving the EWP may be required.	

Unit Model:		**Serial number:**	
Authorized Person to Orientate:		**Signature:**	
Date:			

Trainee Name: (s)	**License number:**	**License Expiry date:**	**Signature (s):**

Photos of Operator HRW Licences must be taken at this point of the Familiarisation Training (<u>Yellow Card is not sufficient</u> due to the height the equipment reaches).

Plant Hazard Identification and Risk Assessment
Spider Lift EWP

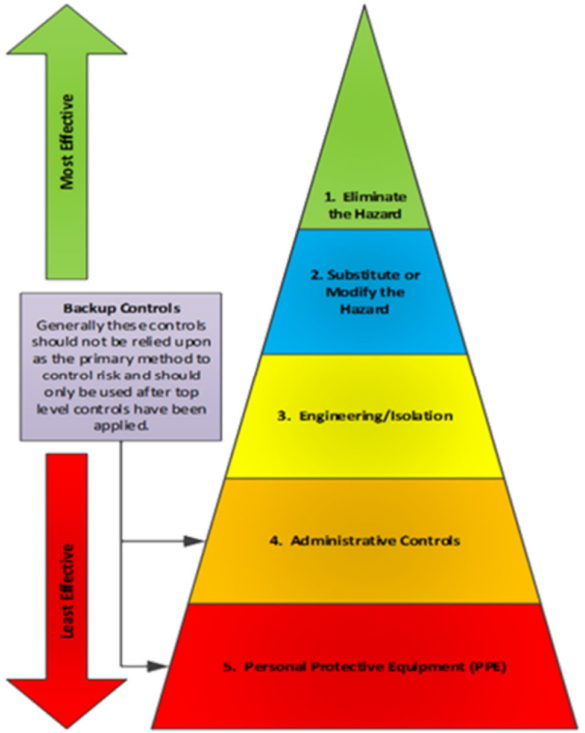
Plant Information

Plant item:	Spider Lift EWP	**Plant identification details (asset/plant no.):**	22.11 U10
Project:			
Competency required to operate the plant:	HRW Licence – WP Preston Hire Operator Familiarisation 2 Operators to be trained and present at all times		
List all legislation, codes of practice and Australian Standards applicable to and referenced within this document:	Managing the Risks of Plant Code of Practice 2013 How to Manage Work Health and Safety Risks Code of Practice 2011 AS 2550.10 2006 Cranes Hoists and Winches - Safe Use – Part 10 Mobile Elevating Work Platforms AS 4024 Safety of Machinery AS 60204.1 Safety of Machines – Electrical equipment		
List other documentation relevant to this plant reviewed during this assessment?	Use and Maintenance Manual		
Assessment conducted by: Names and positions	(name) Andrew Demos Sales Coordinator WHS Coordinator	**Date:**	21 August 2024

Identified energy sources:	Electric		**State method of isolation:**	Isolation Tag Procedure	
Other permit to work required?	☐ Yes ☒ No	**If Yes, which permits:**	N/A	**Licencing/Training Requirements for Operation**	Yellow Card for EWP Operator Familiarisation

All risks associated with this item are assessed using the 3x3 matrix below and the Risk Management Hierarchy has been applied to all controls.

3x3 Risk Matrix		CONSEQUENCE		
		A -Minor	B -Serious	C – Major
		Minor First Aid	Medical treatment and Injury Reported LTI	Fatality or significant permanent disability: life threatening event
		Financial Loss <$1000	Financial Loss $1000 – $10k	Financial Loss > $10k
		Little or no environmental harm	Moderate environmental impact	Long term environmental damage
LIKELIHOOD	3 - Almost Certain Common or repeating occurrence, most likely	Medium M	High H	High H
	2 - Possible Known to occur, or, "it has happened"	Low L	Medium M	High H
	1 - Rare Not likely to occur/remote but still possible	Low L	Low L	Medium M



Maintenance and Repair Assessment

No. of employees working on (or likely to be working on) plant:	Minimum of 2 people at all times (1 on the ground and able to perform the emergency operations)		**Estimate of duration of activity:**
Type of activity:	**Scheduled frequency**	**By whom**	**Location of maintenance:**
☒ Scheduled. Inspections to be carried out as per Manufacturer's Operational and Maintenance Manual	• Daily	Operator	☒ On site - ☐ Off site.
	• Monthly Service/Checks	Preston Hire Operator	☒ On site - ☒ Off site.
	• 3 Monthly	Supplier Approved Service Technician	☒ On site - ☐ Off site.
	• Annual	Supplier Approved Service Technician	☐ On site - ☒ Off site.
	• 10 Yearly	Service Technician	☐ On site - ☒ Off site.
☒ Unscheduled.	When and if it malfunctions	Service Technician	☒ On site - ☐ Off site.

Competency requirements for maintenance:	All inspections maintenance and repairs shall be carried out by a competent person. QLD Plant Code of Practice 2005 (a) A competent person inspecting welding on a crane should have suitable knowledge and experience in the inspection and testing of welds, including knowledge of non-destructive testing methods, and AS/NZS 1554: Structural steel welding. (b) A competent person inspecting hydraulic systems and circuitry on the crane should have suitable knowledge and experience in the inspection and testing of hydraulic systems. (c) A competent person inspecting electrical systems, including the ability to read circuit diagrams and understand relevant technical standards. This person **must be a qualified and licensed electrician** where the voltage of the electrical system is greater than 50 volts alternating current or 115 volts direct current. (d)

Hazard Identification and Risk Assessment during operation and/or maintenance activities

Section 1	Put an **X** if the hazard does apply to the plant. Leave blank if the hazard does not apply to the plant.	**Section 4**	Then indicate the **Consequence**, **Likelihood** and **Risk Rating**.
Section 2	Write where on the plant the hazard exists.	**Section 5**	Write the existing Controls and relevant Comments relating to additional controls required
Section 3	Indicate when the exposure is likely to occur? During Operations **(O),** Maintenance **(M)** or Both **(B)**.	**Section 6**	Indicate the residual risk taking into account controls being implemented after considering applicable legislation, Codes, Standards, etc.

Section 1	Section 2	Section 3	Risk Rating			Section 5	Residual Risk		
Hazard category and examples	**Where on this plant does this hazard exist?**	**Exposure during Operations Maintenance or Both?**	**Consequence**	**Likelihood**	**Risk Rating**	**Controls and Comments**	**Consequence**	**Likelihood**	**Risk Rating**
Entanglement ☒ Arms, hands, fingers, or upper body ☒ Legs, feet, or lower body ☒ Hair, clothing, or jewellery ☐ Cleaning brushes, rags etc ☐ Isolation of energy sources ☐ Other (please specify)	Whole plant	Both	B	2	Med	Ensure hands, fingers, loose clothing, jewellery and other limbs are not exposed to crush/pinch points when conducting maintenance works or pre-start checks. Ensure lockout at main oscillation before maintenance works commence Keep personnel clear during machine operation. Set up exclusion zone under and around immediate working area. Barricade off designated work area	B	1	Low
Inadequate Access ☒ Falling ☐ Hitting crane objects with part of body ☒ Tools falling causing injury	Access to platform	Both	C	2	High	Ensure deck is clean and in good condition Avoid oil, grease and mud on workboots Maintain a clean platform, clear of rubbish and tools Maintain a good foot and hand hold when climbing in and out of the platform (3 points of contact) Fall arrest systems or restraint devices complying with the appropriate parts of AS/NZS 1891 are to be worn and attached to the anchorage points (as per AS 2550.10). Site specific working at heights procedures must be followed. Set up exclusion zone under and around immediate working area. Tools must be secured using lanyards or similar.	B	1	Low
Cutting/ Stabbing/ Puncturing ☐ Contact with sharp parts ☐ Contact with flying parts or work pieces ☐ Parts or work pieces breaking (disintegrating) ☐ Work pieces ejected ☐ Movement of plant or components ☒ Isolation of energy sources ☒ Body or body parts caught in moving components ☐ Other (please specify)	Engine	Both	C	2	High	Ensure lockout of main isolation switch before works commence.	B	1	Low
	Complete Crane	Both	C	2	High	Personnel not to place hands, fingers or other body parts in nip zones Barricade and sign work area - no unauthorised personnel to enter work zone	B	1	Low

Section 1	Section 2	Section 3	Risk Rating			Section 5	Residual Risk		
Hazard category and examples	**Where on this plant does this hazard exist?**	**Exposure during Operations Maintenance or Both?**	**Consequence**	**Likelihood**	**Risk Rating**	**Controls and Comments**	**Consequence**	**Likelihood**	**Risk Rating**
Crushing/ Draw in/ Nip points ☐ Material falling or being ejected from working area ☒ Uncontrolled or unexpected movement ☒ Nip points ☐ Inability to slow, stop, or immobilise plant ☐ Isolation of energy sources ☐ In-running rollers/gear sets	Entire Plant	Both	B	2	Med	Ensure NO personnel are working under the raised hydraulics Barricade work area and place appropriate warning signs	B	1	Low
	Entire Plant	Both	B	2	Med	Keep fingers, hands and other body parts away from nip points Barricade and sign work area – no unauthorised personnel entry	B	1	Low
☒ Plant tipping or rolling over ☐ Parts of plant closing or collapsing ☒ Trapping between plant and materials or fixed structures ☐ Failure resulting in loss of contents or load ☒ Falling objects ☐ Load falling/moving due to power loss or plant failure	Entire Plant	Operation	B	2	Med	Prior to operation, inspect the worksite and assess the ground conditions where the machine will operate. Never 'tie off' the EWP to any fixed structure or plant or use it as an anchor point for attaching rope, wire, cable chain etc. Never use the EWP to steady or pull any materials, structures or other objects. Never use or elevate EWP in winds that exceed manufacturer's maximum wind rating. Loads must not overhang the hand rails as this will alter the EWPs centre of gravity causing the machine to tip over. If driving near edges of formations or drop offs, firstly assess that it is safe to do so and constantly scrutinise the ground conditions. Remain within the confines of the platform when operating Ensure sufficient clearance between the platform and any overhead or other obstructions.	B	1	Low
	Platform	Operation	B	2	Med	Loose items to remain secure within confines of platform. Barricade and sign work area – no unauthorised personnel entry	B	1	Low
☒ Inability to slow, stop or immobilise plant ☒Parts of plant closing or collapsing ☐ Other (please specify)	Entire Plant	Operation	B	2	Med	Operate at a speed appropriate for the ground conditions and do not exceed the maximum allowed incline as per page 10 of the manufacturers manual. Ensure driving and steering is performed from the main platform not the extension platform Ensure NO personnel are working under the raised hydraulics Barricade work area and place appropriate warning signs	B	1	Low

Section 1	Section 2	Section 3	Risk Rating			Section 5	Residual Risk		
Hazard category and examples	**Where on this plant does this hazard exist?**	**Exposure during Operations Maintenance or Both?**	**Consequence**	**Likelihood**	**Risk Rating**	**Controls and Comments**	**Consequence**	**Likelihood**	**Risk Rating**
Friction ☐ Contact with moving parts or surfaces ☐ Contact with moving material ☐ Isolation of energy sources ☐ Other (please specify)	X								
Striking / Impact ☒ Immobilised plant does not slow or stop ☒ Collision with persons, traffic or other objects ☐ Moving objects due to parts or work pieces breaking (disintegrating) ☒ Unauthorised access and operation ☐ Other (please specify)	Entire Plant	Operation	B	2	Med	Clearly define the work area Remove the machine's ignition key Padlock the battery isolation switch (if fitted)	A	1	Low
Pressure ☐ Contact with fluids or gas under pressure as part of normal operation ☐ Contact with fluids or gas under pressure due to failure ☐ Contact with fluids or gas under pressure due to misuse ☐ Striking due to severed high pressure hoses/couplings ☐ Stored energy in machine systems/accumulators counterweights ☐ Isolation and bleeding of pressure energy sources ☐ Other (please specify)	X								

Section 1	Section 2	Section 3	Risk Rating			Section 5	Residual Risk		
Hazard category and examples	**Where on this plant does this hazard exist?**	**Exposure during Operations Maintenance or Both?**	**Consequence**	**Likelihood**	**Risk Rating**	**Controls and Comments**	**Consequence**	**Likelihood**	**Risk Rating**
Slips/ Trips/ Falls ☒ Uneven or slippery work or access surfaces entering or exiting the plant ☐ Housekeeping hazards produced by the plant ☒ Material ejected or falling from the plant ☐ Inadequate work platforms (size, location, fall protection) ☐ Access (ladders, stairs, walkways) to and from the plant ☒ Lack of guardrails or fall protection ☐ Collapse of the supporting structure ☒ Falls/thrown out of platform ☐ Other (please specify)	Access to platform	Both	B	3	High	Ensure deck is clean and in good condition Avoid oil, grease and mud on workboots Maintain a clean platform, clear of rubbish and tools Maintain a good foot and hand hold when climbing in and out of the platform Maintain 3 points of contact when climbing onto platform Safety Harness to be used at all times when working in the EWP at any level. A site specific rescue plan must be in place to prevent suspension trauma in case of fall from platform.	B	1	Low
Loss of Stability ☒ Uneven or slippery work or access surfaces on the plant ☐ Housekeeping hazards produced by the plant ☐ Inadequate work platforms (size, location, fall protection) ☒ Access ladders from the plant ☐ Lack of guardrails or fall protection ☐ Other (please specify)	Access to platform	Both	B	3	High	Ensure deck is clean and in good condition Avoid oil, grease and mud on workboots Maintain a clean platform, clear of rubbish and tools Maintain a good foot and hand hold when climbing in and out of the platform. Maintain 3 points of contact when climbing onto platform	B	1	Low
Uncontrolled movement ☒ Potential for unknown workers to operate plant whilst being serviced causing safety concerns ☐ Plant fails to respond to controls when needed ☒ Plant operated when “Out of Service” ☐ Other (please specify)	Main isolation switch	Both	B	3	High	Isolate controls to machine before doing any works. Place “Out of Service” tag at main isolation switch (if fitted) Record in lockout/tag out register. Safety Harness to be used at all times when working in the EWP at any level. A site specific rescue plan must be in place to prevent suspension trauma in case of fall from platform.	B	1	Low

Section 1	Section 2	Section 3	Risk Rating			Section 5	Residual Risk		
Hazard category and examples	**Where on this plant does this hazard exist?**	**Exposure during Operation Maintenance or Both?**	**Consequence**	**Likelihood**	**Risk Rating**	**Controls and Comments**	**Consequence**	**Likelihood**	**Risk Rating**
Plant rolling over/ through limits ☒ Tip over hazard. ☒ Correct qualifications of operator.	Entire Plant	Operation	C	2	High	Prior to operation, inspect the worksite and assess the ground conditions where the machine will operate. Never 'tie off' the EWP to any fixed structure or plant or use it as an anchor point for attaching rope, wire, cable chain etc. Never use the EWP to steady or pull any materials, structures or other objects. Never use or elevate EWP in winds that exceed manufacturer's maximum wind rating. Loads must not overhang the hand rails as this will alter the EWPs centre of gravity causing the machine to tip over. If driving near edges of formations or drop offs, firstly assess that it is safe to do so and constantly scrutinise the ground conditions. All operators to have a HRW licence for EWP.	B	1	Low
Ejection of Parts ☐ Contact with sharp parts ☐ Contact with flying parts or work pieces ☐ Parts or work pieces breaking (disintegrating) ☐ Work pieces ejected ☐ Movement of plant or components ☐ Other (please specify)	X								
Shearing ☒ Body or body parts caught between moving components ☒ Isolation of energy sources ☐ Body or body parts shear when passing structure.	Entire Plant	Both	B	2	Med	Keep fingers, hands and body parts away from nip points Barricade and sign work area - no unauthorised personnel to enter work zone Remain within the confines of the platform when operating Ensure sufficient clearance between the platform and any overhead or other obstructions Keep clear of any obstructions that could interfere with the raising or lowering of the scissor and watch for overhead obstructions Never overload the machine	B	1	Low
	Engine	Maintenance	B	2	Med	Ensure lockout of main isolation switch before works commence.	B	1	Low

Section 1	Section 2	Section 3	Risk Rating			Section 5	Residual Risk		
Hazard category and examples	**Where on this plant does this hazard exist?**	**Exposure during Operations Maintenance or Both?**	**Consequence**	**Likelihood**	**Risk Rating**	**Controls and Comments**	**Consequence**	**Likelihood**	**Risk Rating**
Electrical Hazards									
Electricity (Shock or burns) Contact ☐ Contact via damaged or poorly maintained electrical leads and cables ☐ Overloading of electrical circuits ☐ Isolation of electrical energy sources ☒ Contact with or proximity to live electrical conductors ☒ Contact via damaged electrical control devices ☒ Contact via water entry ☒ Contact with live wires ☐ Other (please specify)	Electrical Cord	Maintenance	C	2	High	Maintain a mandatory minimum distance from powerlines Insulate 'live' powerlines within the work area Barricade the work area and provide appropriate signage Always remember to 'Look up and Live' whilst elevating Inspect cords and plugs for any damage before use Do not pull cords around corners or sharp edges Use with an RCD protected power supply Do not allow extension cords to hang over the side of the machine Never overload the electrical circuit and exceed the maximum allowable amperage. Ensure all cords are correctly tagged and within date Use weather proof equipment and fittings outside When cleaning machine, do not used pressurised water near the control box or other electrical components If the EWP does come into contact with live wires DO NOT touch the machine. Follow appropriate signage on the EWP regarding minimum distances from powerlines. Keep bystanders away from the area and ensure the power to the electrical line is turned off before touching or trying to move the machine.	C	1	Med
Fire Hazards									
Explosion / Fire ☒ Ignition of flammable atmosphere initiated by the plant ☐ Ignition of flammable atmosphere initiated by material ☐ Ignition of flammable material by the plant ☐ Ignition of flammable material by the process ☒ Other (please specify) Explosion of battery	Battery	Both	C	2	High	Battery produces flammable gas – no smoking or ignition sources to be placed near battery. When changing battery ensure tools do not contact positive battery post as sparks may ignite flammable gases. When disconnecting battery always disconnect negative cable first. Always recharge batteries in well ventilated places where there is no risk of fire outbreaks and where suitable extinguishers are available. When recharging, always open the plugs to vent off the gas that forms during the recharging operation.	C	1	Med

Section 1	Section 2	Section 3	Risk Rating			Section 5	Residual Risk		
Hazard category and examples	**Where on this plant does this hazard exist?**	**Exposure during Operations Maintenance or Both?**	**Consequence**	**Likelihood**	**Risk Rating**	**Controls and Comments**	**Consequence**	**Likelihood**	**Risk Rating**
Ergonomic Hazards									
Working environment and ergonomics ☐ Inadequate lighting levels ☐ Glare from artificial light ☐ Glare from natural light ☐ Placement and identification of controls ☐ Seating design or seating location ☒ Human error or behaviour aspects (Human factors) ☐ Manual handling tasks associated with plant ☐ Cramped or restricted work spaces (particularly for maintenance ☐ Noise levels ☐ Vibration	Entire Plant	Both	B	2	Med	Only Competent worker with appropriate certificate to operate/maintain plant	B	1	Low
Condition and suitability of plant ☐ Age and condition ☒ Service and maintenance history ☐ Frequency of use (high or low use or inappropriate duty cycle) ☐ Not fit for purpose ☐ Unsuitable accessories/fittings ☐ Inability to apply isolation/lock out devices ☐ Accessories in unsafe condition ☐ Use in arduous environment ☒ Modification from original design ☐ Other (please specify)	Entire Crane	Both	B	2	Med	EWP to be serviced and maintained as per scheduled frequency. Ensure maintenance timeframes are adhered to as per manufacturer's requirements. Possible modifications to original design could cause further hazards or reduce structural integrity. Any modifications must be approved by manufacturer.	B	1	Low
Misc Hazards									
Environmental issues causes failure ☐ Inclement weather causes issues ☐ Wind fowls cables and snags or breaks cable ☐ Water impairs operation	X								

Section 1	Section 2	Section 3	Risk Rating			Section 5	Residual Risk		
Hazard category and examples	**Where on this plant does this hazard exist?**	**Exposure during Operations Maintenance or Both?**	**Consequence**	**Likelihood**	**Risk Rating**	**Controls and Comments**	**Consequence**	**Likelihood**	**Risk Rating**
Atmospheric contamination ☒ Exhaust fumes ☐ Lack of oxygen ☐ Dust, fibres, vapours ☐ Thermally generated fumes ☒ Restricted spaces associated with the plant ☐ Other (please specify)	Engine	Both	B	2	Med	Air monitoring to be conducted and results recorded if used in enclosed areas Industrial exhaust extraction fans to be installed.	B	1	Low
Temperature extremes ☐ Open flame, steam or heated air ☐ Exposure to high or low temperature extremes (thermal comfort) ☐ Contact with hot or cold plant components ☐ Contact with hot or cold material ☐ Other (please specify)	X								
Misc Hazards									
Missing or incorrectly positioned safety related systems ☐ Guards missing ☒ Lack of signage ☒ Lack of communication systems ☐ Failure of emergency systems ☐ Other (please specify)	Crane area of works	Both	B	2	Med	Ensure area of works is clearly defined with signage or delineation as required. Ensure communications between operator and dogman are established	B	1	Low
Failure to ensure competent personnel operate plant ☒ Lack of training ☐ lack of maintenance ☐ No signage on floors indicating location ☒ No communication systems functioning ☐ Out of Service requirements ☐ Shutdown ☐ Overloading ☐ Other (please specify)	Crane Operation	Operation	B	2	Med	Ensure ticketed competent operators only operate crane. Ensure operators manual is communicated before works commence. Ensure only certified dogman slings and controls loads.	B	1	Low

Section 1	Section 2	Section 3	Risk Rating			Section 5	Residual Risk		
Hazard category and examples	**Where on this plant does this hazard exist?**	**Exposure during Operations Maintenance or Both?**	**Consequence**	**Likelihood**	**Risk Rating**	**Controls and Comments**	**Consequence**	**Likelihood**	**Risk Rating**
Persons could be injured or injure others when operating the machine without sufficient instruction, training and information	Entire Plant	Both	C	3	High	The operator must be trained in the safe operation of the plant. The Operator must hold an appropriately endorsed National Certificate of Competency. Training should be reviewed regularly and revision recorded.	B	1	Low
Persons could be injured if any of the machine limits or safety devices are disabled	Entire Plant	Both	B	3	High	Operator must check that all limits and safety devices are functioning correctly prior to commencing operations. Use pre-start checklist.	B	1	Low
Persons could be injured if the machine was set up under hazardous conditions	Entire Plant	Both	C	2	High	Operator to assess hazardous conditions prior to setting up and using EWP. Job Safety Analysis is to be completed prior to new jobs by the operator.	A	1	Low
Persons could be injured if they could not receive immediate attention in an emergency situation.	Entire Plant	Both	C	3	High	Operator is not to work alone at any time must ensure that a reliable effective method of communication between the operator and ground personnel is in place. Appropriate ground level (competent/trained) personnel are instructed how to operate the emergency lowering device from ground level.	B	1	Low
Persons could be injured if additional height reaching equipment (ladders, boxes etc.) are used to provide additional reach.	Entire Plant	Both	C	3	High	Operator is to ensure that the machine is positioned such that all work may be completed with occupant's feet on the platform floor. No equipment such as ladders, or steps of any type are used.	B	1	Low

Delivery Risk Assessment

Section 1	Section 2	Section 3	Risk Rating			Section 5	Residual Risk		
Hazard category and examples	**Where on this plant does this hazard exist?**	**Exposure during Operations Maintenance or Both?**	**Consequence**	**Likelihood**	**Risk Rating**	**Controls and Comments**	**Consequence**	**Likelihood**	**Risk Rating**
Crushing/Draw in /Nip Points ☒ Uncontrolled or unexpected movement ☒ Nip points ☒ Plant tipping or rolling over ☒ Trapping between plant and materials or fixed structures ☒ Failure resulting in loss of contents or load ☐ Other (please specify)	Entire Plant	Both	B	2	Med	Ensure all parking and emergency brake systems are working correctly. Competent operator to load and unload machine Load and unload machine on level ground Use minimum of 4 straps to tie down EWP for transport Barricade and sign work area for unloading - no unauthorised personnel Ensure machine safety labels are correctly positioned as per operators manual. Keep fingers, hands and body parts away from nip points When tying down, ensure hands are kept away from nip points Driver to ensure that when driving corners are driven around safely. Driver to adhere to road rules	B	1	Low
Striking / Impact ☒ Immobilised plant does not slow or stop ☒ Collision with persons, traffic or other objects ☐ Moving objects due to parts or work pieces breaking (disintegrating) ☒ Unauthorised access and operation ☐ Other (please specify)	Entire Plant	Operation	B	2	Med	Ensure truck warning and indication systems are working correctly Ensure drivers hold correct license and follow driver fatigue regulations Operate at a speed appropriate for the ground conditions and do not exceed the maximum allowed incline as per page 10 of the manufacturers manual. Remove the EWP's ignition key	A	1	Low
Slips/ Trips/ Falls ☒ Uneven or slippery work or access surfaces entering or exiting the plant ☐ Access (ladders, stairs, walkways) to and from the plant ☐ Other (please specify)	Access to platform	Both	B	3	High	Ensure deck is clean and in good condition Avoid oil, grease and mud on workboots Maintain a clean platform, clear of rubbish and tools Maintain a good foot and hand hold when climbing in and out of the platform – maintain 3 points of contact and always climb up forwards and down backwards Use access support handles to climb into and out of cabin. Maintain 3 points of contact when climbing onto truck. Ensure boots are free from mud when climbing into cabin and always climb up forwards and down backwards	B	1	Low

Section 1	Section 2	Section 3	Risk Rating			Section 5	Residual Risk		
Hazard category and examples	**Where on this plant does this hazard exist?**	**Exposure during Operations Maintenance or Both?**	**Consequence**	**Likelihood**	**Risk Rating**	**Controls and Comments**	**Consequence**	**Likelihood**	**Risk Rating**
Uncontrolled movement ☒ Potential for unknown workers to operate plant whilst being serviced causing safety concerns ☒ Plant operated when "Out of Service" ☐ Other (please specify)	Main isolation switch	Both	B	3	High	Remove key from plant during transport. To be maintained by driver Isolate controls to machine before doing any works. Place "Out of Service" tag at main isolation switch (if fitted) Record in lockout/tag out register.	B	1	Low
Fire Hazards - Explosion / Fire ☒ Ignition of plant and or components ☒ Other (please specify) Explosion of battery	Entire Plant and vehicle	Both	C	2	High	Ensure fire extinguisher is located in truck cabin and is checked and working. NO smoking is permitted while loading or unloading machine Battery produces flammable gas – no smoking or ignition sources to be placed near battery.	C	1	Med
Working environment and ergonomics ☒ Inadequate lighting levels ☒ Glare from artificial light ☒ Glare from natural light ☒ Weather conditions ☒ Human error or behaviour aspects (Human factors) ☒ Noise levels	Cabin and Exterior or truck Access to cabin and tray	Both	B	2	Med	Ensure adequate lighting provided by using additional lighting where required Ensure truck is fitted with sun visor and driver uses polarised safety glasses Only competent operator to load and unload plant. Ensure all parts of truck are in safe working order and brakes, emergency brakes and emergency stops are regularly checked. Hand signals to be used to load and unload plant in noisy environments Steps to be fitted with non slip surface. No slip safety boots to be worn at all times	B	1	Low
Temperature extremes ☒ Contact with hot or cold plant components ☐ Other (please specify)	Engine parts	Both	B	2	Med	Maintain a safe distance from moving parts. Ensure that only those engine compartments required are open	B	1	Low

☒ Wind speed exceeds recommended limit ☐ Other (please specify) _____

☒ Wind speed exceeds recommended limit	☐ Other (please specify) _____	Contact details:	
☒ Wind speed exceeds recommended limit	☐ Other (please specify) _____	Contact details:	

I have reviewed the Risk Assessment and have had the opportunity to comment and make changes as I thought necessary.

Name:	Position description:	Signature:	Date:	Company:

Additional controls:
For each additional control, identify appropriate corrective actions, including priority, timeframes and responsibilities, communicate the requirements to the person responsible and then input the information into the Corrective Action Register.