

Plant Hazard and Risk Assessment

OWNER/INSPECTION DETAILS

Inspection #5139

Date	04/09/2023
Provided for	XPower
Plant Make & Model	Cat 305CR 5 ton Excavator
Identification No.s	XYO443
Hour Meter Reading	7322
Inspection Done at	Melbourne

Assessment Conducted By
Steersafe Training and Assessment ABN 84 137 032 681
Scott Haynes
Certificate IV Training & Assessment TAA40104
Certificate No 1678
Phone: 0418 536 870

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AGREEMENT

THIS AGREEMENT is made on 4th day of September, 2023

and is made between:

SCOTT HAYNES of Steersafe Training and Assessment, and

Stan Miriklis of XPower

The owner/operator agrees to engage Scott Haynes to perform Risk Assessment on the basis of agreement to the following disclaimer.

DISCLAIMER

"*Mobile Plant*" means the mobile plant, vehicle or equipment described in the assessment and inspected by the assessor.

This assessment is based upon information provided to the assessor up until the date of the assessment. If any modification, alteration or addition is made to the mobile plant following that date, this assessment is null and void and cannot be relied upon for any purpose. In particular, this assessment will then provide no assurance that the mobile plant complies with the *Occupational Health and Safety Regulations 2017* or any regulation amending or replacing those regulations. The owner and operator of the mobile plant must conduct regular inspections and maintain the mobile plant at regular intervals. If any alteration or addition is made to the mobile plant, such alterations or additions must be recorded in writing and retained by the owner and operator. The mobile plant will then need to be re-assessed.

At all times it is the responsibility of the owner and operator of the mobile plant to maintain the mobile plant according to the *Occupational Health and Safety Regulations 2017* and all other applicable legislation and regulations. The assessor is not and shall not be liable for the mobile plant complying with the *Occupational Health and Safety Regulations 2017* or any regulation amending or replacing those regulations. This assessment does not pass any responsibility for such compliance to the assessor, and does not in any way exempt the owner and operator from the continuing responsibility for such compliance. The owner and operator agree to indemnify the assessor against all liability of whatever kind in relation to the mobile plant assessed.

This assessment will be conducted by a qualified workplace assessor. This assessment will not be conducted by a qualified mechanic nor a roadworthy assessor, and no responsibility is assumed by the assessor for any mechanical malfunction of the mobile plant nor lack of roadworthiness.

This assessment identifies risks in relation to the mobile plant only, and does not assess risks in relation to the site where the mobile plant is to be used. A job safety and environmental analysis is required to identify such site risks and should be reviewed by the owner and operator prior to commencement of work on site.

ACKNOWLEDGEMENT AND AGREEMENT

I confirm that I have read and understood the disclaimer and notes set out about and agree with all terms

Name: Stan Miriklis

Signed:

Company/Organization: XPower

Date: 04/09/2023

Plant Hazard & Risk Assessment

Hazard	Risk	Control	Control in place	Action Required
1. CRUSHING Can anyone be crushed by:				
(a) material falling off the plant	H I G H	Operator licensed to operate plant	✓	None
		Decals fitted	✓	None
(b) uncontrolled or unexpected movement of the plant or its load		Reverse alarm fitted	✓	None
		Horn fitted	✓	None
		Decals fitted	✓	None
		Reverse swing/ warning lights	✓	None
		Flashing beacon	✓	None
		Non slip pedals	✓	None
		Mirrors fitted	✓	None
		Parking brake operational	✓	None
(c) difficulty in slowing, stopping or immobilising the plant		Service brake operational*	✓	None
		Regular maintenance of plant as recorded	✓	None
(d) the plant tipping or rolling over		ROPs approved structure or cabin	✓	None
		ROPs sticker fitted	✓	None
(e) being thrown off or under the plant		Doors fitted	✓	None
		ROPs approved structure or cabin	✓	None
	Seat belt fitted	✓	None	
	Cabin fully enclosed	✓	None	

*Brakes are checked for function, and not for brake adjustment or brake wear. This is solely the responsibility of the owner/operator.

Hazard	Risk	Control	Control in place	Action Required
(f) being trapped between the plant, materials or a fixed structure.	H I G H	Reverse alarm fitted	✓	None
		Neutral start switch	✓	None
		Horn fitted	✓	None
		Decals fitted	✓	None
		Flashing beacon	✓	None
		Non slip pedals	✓	None
		Mirrors fitted	✓	None
g) attachments. ie buckets, blades, drills, etc		Pins and bushes in good condition	✓	None
h) any other factors not mentioned			✓	None
2. SHEARING Can anyone's body parts be cut off or sheared:				
(a) between two parts of the plant	H I G H	Decals fitted	✓	None
		Burst protection valves fitted where required	✓	None
(b) between a part of the plant and a work piece or structure		Reverse alarm fitted	✓	None
		Swing lights fitted where required	✓	None
		Horn fitted	✓	None
c) any other factors not mentioned			✓	None

Hazard	Risk	Control	Control in place	Action Required
3. STRIKING Can anyone be struck by moving objects due to:				
a) uncontrolled or unexpected movement of the plant or material	M E D I U M	Reverse alarm fitted	✓	None
		Reversing warning decal fitted	✓	None
		Flashing beacon on plant	✓	None
		Horn fitted	✓	None
		Controls/levers identified	✓	None
b) the plant, or parts of the plant disintegrating		Regular maintenance of plant as recorded	✓	None
		Decals fitted	✓	None
		Guards fitted as required	✓	None
c) the mobility of the plant		Reverse alarm fitted	✓	None
		Decals fitted	✓	None
		Flashing beacon	✓	None
d) any other factors not mentioned			✓	None
4. ENTANGLEMENT Can anyone be injured by:				
a) hair, clothing or any other items they are wearing or attached to them, become entangled in the moving parts of the plant or materials on the plant?	M E D I U M	Guards fitted as required	✓	None
		Warning decals for moving parts	✓	None
b) any other factors not mentioned			✓	None

Hazard	Risk	Control	Control in place	Action Required
5. CUTTING, STABBING & PUNCTURING Can anyone be injured by:				
a) contact with sharp or moving parts on the plant	M E D I U M	Guards fitted as required	✓	None
		Decals fitted	✓	None
b) the plant, or parts of the plant disintegrating		Regular maintenance of plant as recorded	✓	None
c) uncontrolled or unexpected movement of the plant or material		Reverse alarm fitted	✓	None
		Reversing warning decal fitted	✓	None
		Flashing beacon	✓	None
		Horn fitted	✓	None
		Brake lights and indicators	✓	None
		Rear swing/reverse warning lights	✓	None
d) any other factors not mentioned			✓	None

Hazard	Risk	Control	Control in place	Action Required
6. TRIPPING, SLIPPING OR FALLING Can anyone using or in the vicinity of the plant, trip, slip, or fall due to				
a) slippery or uneven work surfaces	M E D I U M	Non slip steps and work area	✓	None
b) inadequate steps and handrail to enter and exit plant		Non slip steps and handrail to ensure 3 points of contact to enter and exit plant	✓	None
c) inadequate rail or other suitable edge protection		Handrail or edge protection in place where required	✓	None
d) obstacles in the vicinity of the plant. E.g.: oil spill or plant attachments		No visible signs of fluids leaking from plant	✓	None
		Work area free from debris and work materials	✓	None
d) any other factors not mentioned			✓	None
7. ERGONOMIC Can anyone be injured by:				
a) badly designed or damaged seating	M E D I U M	Driving seat in good condition	✓	None
b) inhibited body posture or the need for excessive effort		Adjustable seat position	✓	None
		Adjustable driving controls	✓	None
c) inadequate lighting		Adequate lights in and outside of cabin	✓	None
d) unsafe entry and exit points		Non slip steps and handrail to ensure 3 points of contact to enter and exit plant	✓	None
e) any other factors not mentioned			✓	None

Hazard	Risk	Control	Control in place	Action Required
8. ELECTRICAL Can anyone be injured or burnt from electrical shock by:				
a) exposed and damaged battery or leads	M E D I U M	Guards around battery or wiring	✓	None
		Regular maintenance of plant as recorded	✓	None
		Decals fitted	✓	None
b) the plant contacting live electrical conductors		JSAs on site and spotters when operating near overhead wires	✓	None
c) damaged electrical wiring, switches or cables		Regular maintenance of plant as recorded	✓	None
d) any other factors not mentioned			✓	None
9. BURNS Can anyone be burnt by:				
a) contact with exhaust	M E D I U M	Guards around exhaust	✓	None
		Decals fitted	✓	None
		Exhaust mounted away from easy access	✓	None
b) fire in the plant		Regular maintenance of plant as recorded	✓	None
		Fire extinguisher supplied in plant	✓	None
c) any other factors not mentioned			✓	None
10. HIGH PRESSURE AND EXPLOSION Can anyone be injured by:				
a) high pressure fluid	M E D I U M	Regular maintenance of hydraulic hoses and couplings as recorded	✓	None
b) explosions caused by gas, vapours, liquids or other substances		All seals and tanks in good working order	✓	None
c) any other factors not mentioned			✓	None

Hazard	Risk	Control	Control in place	Action Required
11. SUFFOCATION/ASPHYXIATION Can anyone suffer or become ill from:				
a) lack of oxygen within the plant cabin	M E D I U M	Adequate ventilation (windows)	✓	None
		Air conditioning	✓	None
b) fumes, toxic gases or vapours within the plant cabin		Exhaust in good operating condition	✓	None
		Door and window seals in good condition	✓	None
c) dust within the plant cabin		Door and window seals in good condition	✓	None
d) overheating within the plant cabin		Adequate ventilation (windows)	✓	None
		Air conditioning	✓	None
e) any other factors not mentioned			✓	None
12. OTHER HAZARDS Can anyone be injured or become ill from:				
a) excessive noise	M E D I U M	Hearing protection supplied N.B. See noise level test for more detail	✓	None
b) vibration		Excessive Vibration	✓	None
c) excessive temperatures in cabin		Heater and air conditioner	✓	None
		Adequate ventilation and sealing doors and windows	✓	None
e) any other factors not mentioned			✓	None
13. DOCUMENTATION Has information been provided on the following:				
a) daily pre start inspection check list	M E D I U M	Pre start provide	✓	
b) service and maintenance records		Service history provided	✓	None
c) plant operation manual		Plant Manual provided	✓	
d) suitable licence for operation of the plant		Licence provided	✓	None

NOTE

High risk denotes a possible or probable occurrence and possible death, or life threatening injury, or permanent disability without the use of controls.

Medium risk denotes unlikely or possible occurrence and possible injury without the use of controls.

NOISE ASSESSMENT

The noise level reading shall be taken at exhaust level, and within 1050mm of the exhaust emission. The reading will be taken at idle and at “Engine Speed at Maximum Power”. This procedure is in accordance with the *Environment Protection (Vehicle Emissions) Regulations 2003*.

A further reading shall then be taken from the cabin of the truck.

The sound meter used for this assessment is a Digitech QM-1589, Serial No 10060748 in accordance with the *Environment Protection (Vehicle Emissions) Regulations 2003*.

Plant Details	Cat 305CR 5 ton Excavator
Identification No.	XYO443
Background Noise	dBA: 47.8
Noise in Cabin at Idle	dBA: 72.8
Noise in Cabin at Maximum Power	dBA: 76.9
Noise at Idle	dBA: 75.6
Noise at Maximum Power	dBA: 79.6

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ACKNOWLEDGMENT AND ACCEPTANCE

I confirm that I have read and understood the disclaimer and notes set out above and agree with all terms.

I also acknowledge I have received the completed Risk Assessment for the aforementioned Mobile Plant

Name: Stan Miriklis **Company/Organisation:** XPower

Signed: **Date:** 04/09/2023