

# GM Risk Assessment Services Pty Ltd

Mobile No. 0413 313 606 Phone No. 03 9308-4823 Fax No. 03 9308-4873

## Risk Hazard Identification & Control Checklist

Assessment No: **020951**

Company: **St Anthony's Transport Pty Ltd**

Plant Type: **21 Tonne Excavator**

Year Make & Model: **Kobelco SK210**

Serial / Pin No: **YQ12-08898**

Service Meter Reading: **6483 hrs**

Assessment Location: **Seaford Vic**

Assessed By: **Greg Mayhew**

Certificate IV Work Place Assessor / Trainer

Plant Risk Assessment Label Attached: White Yes / ~~No~~

Date: **Tuesday 6<sup>th</sup> June 2017**

- This document has been developed as a guide to identify hazards on mobile plant only workplace hazards have not been identified.
- A job safety analysis (JSA) is required to identify workplace hazards.
- Operators must take into account job safety analysis when operating their machine.
- This assessment has been conducted under a static condition as per the OH&S Regulations 2009 Victoria

## Report Acceptance

### ASSESSMENT FOR: **Kobelco SK210 / 21 Tonne Excavator**

#### GENERAL NOTES

The owner / operator of the above mobile plant should conduct an inspection at regular intervals. All procedures and control methods are maintained to the requirements of the OH&S Regulations 2009 Level. In particular when any alteration or change is made to the mobile plant a review of both control methods and documentation should be made.

A Mobile Plant Risk Assessment should be conducted at regular intervals with a minimum of once a year (12 months).

#### DISCLAIMER

This Mobile Plant Hazard & Risk Assessment report (referred to hereafter as 'Assessment') contains information that is privileged and confidential and is produced only for the use by the entity of person on the front cover sheet of this Assessment.

This Mobile Plant Hazard & Risk Assessment does not eliminate the owners / operators responsibility to maintain the mobile plant as per OH&S Regulations 2009. Copying or distribution of this Assessment by any means to a third party is expressly prohibited unless consent has been authorised by the assessor and recipient.

This Assessment provides information that is based on an inspection that was made on the date noted on the Assessment cover sheet. If any addition, alteration or modification has been made to this mobile item plant subsequent to that date, may not conform to a satisfactory level of acceptance, therefore the Mobile Plant Hazard & Risk Assessment is null and void.

I acknowledge receipt of complete Assessment for the mobile plant item detailed above.

**Assessor Name & No:** Greg Mayhew 20040044      Signed: ..... *Greg Mayhew* .....

**Receipt By:** Kevin Andrews      Signed: .....

**Dated:** Tuesday 6<sup>th</sup> June 2017

Plant Safety Checklist	Yes	No	N/A	Comments	Date Rectified	Signature
Amber flashing beacon	✓					
Safety decals fitted	✓					
Fire extinguisher	✓					
Reversing, travel alarm	✓					
Rear view camera	✓					
Emergency stops	✓					
Pre-start checks and service records	✓					
Operator's manual	✓					
ROP's, TOP's, FOP's approved structure (tag identified)	✓					
ROP's removable structure			✓			
Anti-burst, drop valves fitted	✓					
SWL / WLL / WWL displayed	✓					
Approved lifting points	✓					
Load chart fitted	✓					
Quick hitch independent latching device supplied	✓					
Vandal covers removable (emergency exit clear access)	✓					
Noise level in limit	✓					
Lights working, operational, clean	✓					
Housekeeping (clear and clean)	✓					
Cabin controls, leavers, clear (clean and identified)	✓					
Seat belt and signage (seat belt must be worn)	✓					
Seat in safe usable condition	✓					
Horn operational	✓					
Glass safe operational condition	✓					
Steps and handgrips in place	✓					
Turrent, deck grab rails fitted	✓					
Tracks, steel, rubber, tyres	✓					
Moving parts guarded	✓					
Hydraulic cylinders, hoses, connections (leaks, wear)	✓					

## PROBABILITY MATRIX

Consequence	Probability of Adverse Event or Incident			
	Very Likely	Likely	Unlikely	Highly Unlikely
Life Threatening	High			Medium Risk
Serious Injury			Medium Risk	
Harmful		Medium Risk		Low Risk
Negligible	Medium Risk		Low Risk	Low Risk

## HAZARD CONSEQUENCE RATING TABLE

<b>Life Threatening</b>	Hazard may cause death or total loss of one or more bodily functions (eg. loss of: or use an arm, an eye, huge financial loss etc).
<b>Serious Injury</b>	Hazard may cause severe injury, illness or permanent partial loss of one or more bodily functions (eg. noise induced hearing loss), or serious property damage, loss of production capability.
<b>Harmful</b>	Hazard may cause a reportable incident ie. an incident that results in the employee being unable to undertake their normal duties for 7 days or more, or significant property damage, high financial loss.
<b>Negligible</b>	Hazard may cause minor injury, illness or property damage, first aid treatment only or no injury, low financial loss.

## PROBABILITY RATING TABLE

<b>Very Likely</b>	Exposure to hazard likely to occur frequently.
<b>Likely</b>	Exposure to hazard likely to occur but <b>not</b> frequently.
<b>Unlikely</b>	Exposure to hazard unlikely to occur.
<b>Highly Unlikely</b>	Exposure to hazard so unlikely that it can be assumed that it will not happen.

	RISK FACTOR	CONTROL METHODS	YES	NO	N/A	
<b>1. Crushing</b> Can anyone be crushed by?	<b>H I G H</b>		✓			
a) Attachments e.g. bucket etc?			✓			
b) Materials falling off the plant?			✓			
c) Unexpected or uncontrolled movement of the plant/being trapped between the plant and materials or fixed structures?		Neutral start switch	✓			
		Reversing/travel alarm	✓			
		Amber flashing beacon	✓			
		Crush zone warning decal	✓			
		Rear swing warning lights	✓			
		Pedals - non slip surface	✓			
		Controls fitted with appropriate knobs	✓			
		Reversing light			✓	
		Rear view mirror	✓			
		d) Plant's lack of capacity to be slowed, stopped or immobilised?	Service brake operational			✓
		Parking brake operational			✓	
e) Plant tipping or rolling over?		Battery isolator fitted	✓			
		ROP's, TOP's and FOP's fitted	✓			
		ROP's, TOP's and FOP's tag identified	✓			
f) Being thrown off or under the plant?						
		Seat belt fitted	✓			
		Door fitted	✓			
		Rops fitted seat belt must be worn, warning decal	✓			
		Operator cabin fully enclosed	✓			
		Operator cabin opens	✓			
		Serviced and maintained regularly	✓			
g) Parts of Plant collapsing?			✓			
<b>2. Cutting, Stabbing or Puncturing</b> Can anyone be cut, stabbed or punctured by:			✓			
a) Contact with moving parts on plant/sharp or flying objects?		Guarding fitted – no visible signs of sharp objects showing	✓			
b) Parts of the plant or work pieces disintegrating or ejecting?		Serviced and maintained regularly	✓			
(c) Any other risk factors not mentioned?			✓			

	RISK FACTOR	CONTROL METHODS	YES	NO	N/A
<b>3. Striking</b> Can anyone be struck by moving objects from?	<b>H I G H</b>		✓		
a) Working pieces being ejected or disintegrating?		Machine guarding fitted	✓		
		Keep clear warning decal	✓		
		Quick hitch independent latching	✓		
		Glass-safe operational condition	✓		
		Reversing / Travel alarm	✓		
		Amber flashing beacon	✓		
b) Unexpected or uncontrolled movement of the plant or material from plant?		Reversing warning decal	✓		
		Brake lights and turn signals			✓
		Warning horn	✓		
		Controls identified	✓		
		Instruction decals	✓		
(c) The mobility of plant?					
(d) Any other risk factors not mentioned?				✓	
<b>4. Shearing</b> Can anyone's body parts be cut off?			✓		
(a) Between two parts of the plant?		Do not attempt to place any part of the body between hinged hydraulic and arm component	✓		
(b) Between a part of the plant and a work piece or structure?		Do not leave plant with bucket raised / do not allow passengers to ride on machine	✓		
(c) Any other risk factors not mentioned?				✓	
<b>5. Entanglement</b> Can anyone's hair, clothing, gloves, necktie, jewellery, rags and other materials become entangled with moving parts of plant, or materials in motion?		Guards installed	✓		
		Warning decal for personal protection (i.e. hair, jewellery, clothing, etc)	✓		
(a) Any other risk factors not mentioned?				✓	
<b>6. Tripping, Slipping or Falling</b> Can anyone using the Plant or in the vicinity of the plant, slip, trip or fall due to?			✓		
(a) The working environment or other factors?			✓		
(b) Poor housekeeping?		No visible signs of excessive lubricant leakage or spillage	✓		
		Operators station clear of debris	✓		
(c) Slippery, uneven or steep work surfaces?				✓	
(d) Lack of proper work platform?		Non slip surface	✓		
(e) Poor floor or walking surface i.e. lack of slip-resistant surface?		Non slip surface	✓		
(f) Lack of proper stairs, steps or ladders?		Steps / Footings in place	✓		
		Non slip surface	✓		
(g) Lack of guardrail, handrail other suitable edge protection?		Guardrails – handrails, edge protection in place	✓		
(h) Unprotected holes, penetrations or gaps?		Holes, penetrations or gaps covered or protected	✓		

	RISK FACTOR	CONTROL METHODS	YES	NO	N/A
<b>7. High Pressure Fluid</b> Can anyone come into contact with fluids under high pressure, due to plant failure or misuse of the plant?	<b>M E D I U M</b>	Anti burst/Drop valves fitted	✓		
(a) Any other risk factors not mentioned?		Leakage		✓	
<b>8. Ergonomic</b> Can anyone be injured by?				✓	
(a) Poor seating design / unsafe useable condition?		Seat in safe usable, good condition	✓		
(b) The mismatch of plant with human traits and natural limitations?		All matching operators size	✓		
(c) Poor body posture or need for excessive effort?		Operational control levers and pedals in operators-reach	✓		
		Seat adjustment controls operational	✓		
(d) Poor or misplaced lighting?		Lighting in and out of cabin fully operational	✓		
(e) Any other risk factors not mentioned?				✓	
<b>9. High Temperature/Fire</b> Can anyone come into contact and be burnt by objects at high temperatures or injured by fire?		Friction heated parts or surfaces	✓		
		High mounted exhaust, not easily accessible.	✓		
		Exhaust guarding	✓		
		Hot part warning decal	✓		
		Fire protection supplied, fire extinguisher in plant	✓		
(a) Can anyone suffer ill health due to exposure to high or low temperatures? E.g. No air-conditioning in closed cabin		Good ventilation / air conditioning	✓		
(b) Any other risk factors not mentioned?				✓	
<b>10. Suffocation / Asphyxiation</b> Can anyone be suffocated due to lack of oxygen, or atmospheric contamination?		Adequate ventilation	✓		
(a) Any other risk factors not mentioned?		Air-conditioning	✓		
<b>11. Electrical</b> Can anyone be injured from electrical shock or burnt by:			✓		
(a) Damaged leads?		Electrical wire warning decal displayed (engine guarding)	✓		
(b) Damaged or poorly maintained electrical leads, switches or cables?		No visible signs of damage / engine guarding fitted	✓		
(c) Any other risk factors not mentioned?				✓	
<b>12. Explosion</b> Can anyone be injured from as explosion?				✓	
(a) Gases, vapours, liquids, dusts or other substances, ignited by the operation of the plant or by material being handled by plant?				✓	

	RISK FACTOR	CONTROL METHODS	YES	NO	N/A
<b>13. Other Hazards</b> Can anyone be injured or suffer ill health from exposure to?	<b>M E D I U M</b>		✓		
(a) Fumes		Engine fumes not excessive at high idle	✓		
(b) Toxic gases or vapours?		Door / window seals serviceable	✓		
(c) Noise?		Within limit	✓	✓	
(d) Dust?		Hearing protection supplied			✓
(e) Vibration?		Hearing protection warning decal			✓
(f) Radiation?				✓	
(g) Other items?				✓	
(h) Any other risk factors not mentioned?				✓	
<b>14. Operator</b> Have the following areas been addressed?		MULTIPLE OPERATOR'S			
(a) Does the operator hold a certificate, safety qualification card to operate this item of plant?		Holds relevant qualifications	✓		
		<b>Certificate No:</b>	ALL OPERATOR'S MUST HAVE A MINIMUM 'LE' CERTIFICATE OF COMPETENCY		
		<b>Types:</b> LE			
		<b>Issue / Expiry Date:</b>			
<b>15. Documentation</b> Can documentation be provided for		In operators station	✓		
(a) Operation Manual issued		Manual in English	✓		
		Manual in readable condition	✓		
		Attachment instructions available	✓		
(b) Plant Daily Inspection Fault Report book		Plant daily Inspection Record	✓		
		Date of last entry	@ 6480 hrs		
(c) Servicing and maintenance records		Records maintained by company and are available on request	✓		
(d) Maintenance Manual supplied		Manual available	✓		



# RISK ASSESSMENT

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## **A. Noise Level Readings**

**Plant Type:** 21 Tonne Excavator

**Year Make & Model:** Kobelco SK210

**Background Noise:** (plant / equipment stopped) Db: 42.5

**Note:** Background noise level reading must be taken only when the machinery being assessed is stationary and engine stopped, unless noted all other noise level readings are taken with machinery being assessed running at high idle.

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Cabin reading (plant / equipment at high idle) Db: 74.8

Cabin reading (plant / equipment in operation) Db: 75.2

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Front of plant / equipment reading (7 meters distance) Db: 70.5

Back of plant / equipment reading (7 meters distance) Db: 74.9

Right side of plant / equipment reading (7 meters distance) Db: 75.6

Left side of plant / equipment reading (7 meters distance) Db: 75.4

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**Comments:**

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**Assessment Location:** Seaford Vic

**Assessment Signed off by:** Greg Mayhew

**Date:** 6 June 2017

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## **B. Noise Level Report**

**Client:** St Antony's Transport Pty Ltd

**Plant Type:** 21 Tonne Excavator

**Year Make & Model:** Kobelco SK210

**Serial / Pin No:** YQ12-08898

**Note:** The owner / operator of the plant / equipment assessed on the 6 June 2017, should perform an inspection at regular intervals as per the manufacturer's handbook for inspection, if for any reason there are any alterations or changes made to the plant / equipment a review of both control methods and documentation should be carried out immediately.

**Plant / Equipment must be re-assessed** if any alteration or changes are made to the assessed machinery after this report.

**Sound Meter used:** DIGITECH QM 1588

**Serial Number:** 08081409

**Model Number:** QM1589

### **Disclaimer:**

This report is based on the observations made during the assessment of the above machinery on the date stated below.

I **GREG MAYHEW** accept no responsibility for any modifications, alterations or additions to the above machinery after the date stated below.

Should this report indicate items or features requiring attention, it is the responsibility of the owner to ensure that these works are carried out and all safety standards are met immediately.

I **GREG MAYHEW** accept no liability of any loss or injury resulting from failure to carry out 'reported necessary works'.

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**Assessment carried out by:** Greg Mayhew

**Signature of Assessor:** ..... *Greg Mayhew* .....

**Date:** 6 June 2017

I acknowledge receipt of assessment for the above machinery.

**Received by (print):** Kevin Andrews

**Signature:** .....

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