

<b>TYPE</b>	Compressors - Trailing
<b>MAKE</b>	Atlas Copco
<b>MODEL</b>	XAS 88 KD
<b>SERIAL NUMBER</b>	WUX 664423
<b>Report Number</b>	RED 20190211-1350
<b>Date</b>	11-Feb-2019
<b>Created By</b>	Phil Ryan
<b>Assessor</b>	Phil Ryan
<b>Assist. Assessor(s)</b>	
<b>Completed By</b>	Phil Ryan
<b>Owner</b>	Redstar Equipment
<b>Customer Name</b>	Matko Hire
<b>Assessment Purpose</b>	Hire
<b>State</b>	VIC

## TABLE OF CONTENTS

### SECTION 1

#### IMPORTANT INFORMATION

Contains information outlining the scope and any limitations applicable to this Risk Management Report

### SECTION 2

#### MACHINE DETAILS

Contains standard machine specifications and details of any extras fitted

### SECTION 3

#### RISK ANALYSIS, RISK EVALUATION & RISK TREATMENT

Contains details of the technique used to calculate risk ratings, time frame and risk treatments. Please refer to this information when reviewing and interpreting the information in section 4 & 5

### SECTION 4

#### RISK TREATMENTS REQUIRED

Contains detailed information regarding the risk treatments to be implemented including hazard, risk rating, time frame, relevant standards & legislative references

### SECTION 5

#### RISK TREATMENTS IN PLACE

Contains detailed information regarding the risk treatments in place including hazard, risk rating, relevant standards & legislative references

### SECTION 6

#### IMAGES AND NOTES

Contains images & any relevant information entered by the assessor

## SECTION 1 IMPORTANT INFORMATION

This report generated by Plant Assessor™ © Online Safety Systems on Monday, 11 Feb 2019 2:15 PM

This report pertains to this item of plant as it appeared on the day of inspection.

It is the responsibility of the hirer to conform with the instructions and information contained within this report. Any change in condition of this item of plant should be reported to the hire company immediately.

Any information relating to the standard features have been supplied via the manufacturer and should be used as a guide only until verified.

For further information regarding this report contact Online Safety Systems on 1300 72 88 52

## SECTION 2 MACHINE DETAILS

<b>MACHINE DETAILS</b>	<b>- NOISE TEST RESULTS</b>	1. Manufacturers specified noise level dBA	70
	<b>CAPACITIES</b>	Fuel Tank Capacity (Litres)	60
	<b>COMPRESSOR</b>	Free Air Delivery (lit/min)	175 CFM
	<b>DIMENSIONS/WEIGHTS</b>	Height (mm)	1,400
		Length, draw bar down (mm)	2290
		Length, drawbar up (mm)	
		Operating weight (kg)	750
		Width (mm)	1350
	<b>ENGINE</b>	Engine Make & Model	Kubota V 1505T
		Engine Number	
		Fuel consumption (lit/min)	
		Power (kW@rpm)	33@3000
	<b>PLANT CLASSIFICATIONS</b>	Class	Compressor
		Year	2018
	<b>WORK CAPABILITIES</b>	Normal work pressure (kPa)	100 Psi

## SECTION 3 RISK ANALYSIS / RISK EVALUATION

RISK ANALYSIS		CONSEQUENCE				
		1. INSIGNIFICANT Dealt with by in house first aid	2. MINOR Treated by medical professionals, hospital out patients	3. MODERATE Significant non permanent injury overnight hospital stay	4. MAJOR Extensive permanent injury eg. Loss of fingers, extended hospital stay	5. CATASTROPHIC Death, permanent disabling injury eg. Loss of hand, quadriplegia
LIKELIHOOD	A. Almost certain to occur in most circumstances	MEDIUM 8	HIGH 16	HIGH 18	CRITICAL 23	CRITICAL 25
	B. Likely to occur frequently	MEDIUM 7	MEDIUM 10	HIGH 17	HIGH 20	CRITICAL 24
	C. Possibly and likely to occur at sometime	LOW 3	MEDIUM 9	MEDIUM 12	HIGH 19	HIGH 22
	D. Unlikely to occur but could happen	LOW 2	LOW 5	MEDIUM 11	MEDIUM 14	HIGH 21
	E. May occur but only in rare circumstances	LOW 1	LOW 4	LOW 6	MEDIUM 13	MEDIUM 15

RISK EVALUATION	CRITICAL	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below.
	HIGH	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below. If the appropriate risk treatments are not immediately accessible establish interim risk treatment strategies. Permanent risk treatments must be implemented within one week.
	MEDIUM	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within one month.
	LOW	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within three months.

RISK TREATMENT	Selecting the most appropriate risk treatment option involves balancing the costs and efforts of implementation against the benefits derived, with regard to legal, regulatory and other requirements. (source AS/NZS ISO 31000:2009)	
	Eliminate	Eliminate the risk source.
	Substitute	Provide an alternative that is capable of performing the same task which is safer.
	Engineering	Provide or construct a physical barrier or guard.
	Administration	Develop policies, procedures, practices and guidelines in consultation with employees to mitigate the risk. Provide training, instruction and supervision about the risk source.
	Personal protective	Provide personal protective equipment to protect the individual from the risk source.




## SECTION 4 RISK TREATMENTS REQUIRED





This section of the report pertains to hazards created by use of this item of plant which currently do not have risk treatments in place. The risk treatments recommended in this section have been developed based on relevant Australian Standards, health & safety legislation, the hierarchy of risk treatment in accordance with the guidelines set forth in AS/NZS ISO 31000 – Risk Management and various other sources. The recommended risk treatment measures must be developed, implemented and validated as effective prior to the operation, maintenance or testing of this item of plant. Treatments applied must be dated and initialled adjacent the recommendations. All operators must read and understand the entire contents of this section prior to operating this item of plant.







HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	Time Frame	Due Date	Date Rectified	Initial
-----------	---------------------	----------------------	------------	----------	----------------	---------







## SECTION 5 RISK TREATMENTS IN PLACE






This section of the report pertains to risk treatments currently in place on this item of plant. This section must be read in conjunction with the safety section of the manufacturers handbook. All operators must read and understand the entire contents of this section prior to operating this item of plant. These treatments or equivalent must remain in place at all times whilst this item of plant is in operation.

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
COMMISSIONING	 <b>COLLISION, INCORRECT OPERATION</b>	HIGH 22	MEDIUM 15
	<p><b>Risk Treatments in Place: Tow Coupling Label</b>                      The aggregate mass of this trailer is less than 3500kg and a ball type towing coupling fitted. Accordingly the tow ball coupling is marked with the following information in characters in English not less than 5 mm high -</p> <p>(a) Factory mark, trade name or manufacturer's name (if appropriate).                      (b) The mark '50' to indicate the size of the towball for which it is intended.                      (c) The manufacturer's approved maximum coupling body rating (e.g. '750 kg', or '2000 kg', or '3500 kg'), in kilograms.                      (d) A code to indicate the serial number, batch, production date, or similar.                      (e) The words 'DO NOT WELD' if the coupling is manufactured from non-weldable materials.                      (f) The words 'WELD ONLY' if coupling body is specifically designed to be attached by welding only?</p> <p>This information must be marked upon the coupling and followed at all times whilst this item of plant is in operation.  <b>References:</b> AS4177.3</p>		
OPERATION	 <b>INCORRECT OPERATION</b>	CRITICAL 24	MEDIUM 15
	<p><b>Risk Treatments in Place: Operator Competency</b>                      Only persons who are qualified, trained and experienced and/or hold the relevant certification/license can operate this item of plant. If there is not a competent/licensed person available for operation of this item of plant then only persons who are supervised by a competent/licensed person can operate this item of plant.  <b>References:</b> Work Health &amp; Safety Act &amp; Regulations-</p>		
	 <b>INCORRECT OPERATION</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Operation Handbook</b>                      The manufacturer's operation handbook has been supplied for this item of plant.</p> <p>This handbook must be available at all times to all potential operators and supervisory staff. All potential operators must read and be familiar with this handbook prior to operating.</p> <p>A complete risk assessment/Job Safety Analysis must be undertaken covering all operating processes and environments associated with this item of plant. SWMS should be produced for specific tasks associated with use of this item of plant.</p>			









HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 <b>INCORRECT OPERATION</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Pre-op Checklist Compressor - Trailing</b>  A pre-operational checklist is available for this Compressor - Trailing. All operators must complete this checklist prior to operating this Compressor - Trailing.</p> <p><b>References:</b> Work Health &amp; Safety Act &amp; Regulations-</p>		
 <b>INCORRECT OPERATION</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: SOP Compressor - Trailing</b>  Safe Operation Procedures are available for this Compressor - Trailing. The information in the Safe Operation Procedures must be followed at all times whilst operating this Compressor - Trailing.</p> <p><b>References:</b> Work Health &amp; Safety Act &amp; Regulations-</p>		
 <b>INCORRECT OPERATION</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Control Labels</b>  All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to their purpose and method of operation. These labels must be maintained in a clean and serviceable condition at all times.</p> <p><b>References:</b> AS/NZS4024.1905</p>		
 <b>POISONING, BURNS, EXPLOSION</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Engine</b>  Review Safe Operation Procedures to ensure the existence of the following:</p> <p>FUEL COMBUSTION ENGINES SAFE OPERATION PROCEDURES</p> <ol style="list-style-type: none"> <li>1. Switch off the engine before refueling.</li> <li>2. NEVER smoke in the vicinity of, and keep sources of sparks away from, any flammable liquid or fuel.</li> <li>3. Let the engine cool down before refueling.</li> <li>4. Fuels can contain substances similar to solvents. Eyes and skin should not come in contact with mineral oil products. Always wear protective gloves when refueling (not regular work gloves!). Frequently clean and change protective clothes. Do not breathe in fuel vapours. Inhalation of fuel vapours can be hazardous to your respiratory health.</li> <li>5. Use extreme care when filling fuel tanks.</li> <li>6. Exercise care not to spill fuel. If a spill over the engine occurs, clean and dry the engine immediately. Fuel should not come in contact with clothes. If your clothes have become contaminated with fuel, change out of them at once. Undertake refilling operations over a non porous surface such cement or preferably within a bunded area to avoid spilling fuel on the ground (environmental protection).</li> <li>7. Do not refuel any fuel tank or container in a closed unventilated area. Without effective ventilation, fuel vapours will accumulate near the floor creating a risk of explosion and/or causing dizziness and possible unconsciousness in nearby persons.</li> <li>8. Ensure to correctly fit and firmly tighten the screw cap of the fuel tank.</li> <li>9. Before starting the engine, move to a location at least 3 metres from where you fuelled the engine, but not within the extended swing range of the cutting disc (direction of sparks if appropriate).</li> <li>10. Fuel cannot be stored for an unlimited period of time. Buy only as much as will be consumed in the short term.</li> <li>11. When making up the fuel/oil mixture, always put the oil in the mixing container first, and then the fuel.</li> <li>12. Use only approved and appropriately marked containers for the transport and storage of fuel.</li> <li>13. Keep children away from fuel, fuel storage and operating machinery!</li> <li>14. Where possible, keep an appropriate fire extinguisher nearby during operations utilising flammable liquids</li> <li>15. Never operate an internal combustion engine inside your home, basement, garage or any other enclosed area. The engine needs a minimum of 1 to 2 metres of spacing on all sides (including the top). An engine needs an unlimited supply of fresh air for proper cooling during operation.</li> <li>16. Properly locate the engine outdoors away from doors and windows. An open door or window will allow dangerous exhaust fumes to enter the building. Since combustion engines create carbon monoxide, which can be lethal, good ventilation is critical. Keep the engine dry and always operate it on a level surface.</li> </ol> <p><b>References:</b> Work Health &amp; Safety Act &amp; Regulations-</p>		







HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 <b>POISONING, EXPLOSION, BURNS</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Tank ID Label</b> The tank(s) on this item of plant have clear, legible label(s) identifying their contents, and if appropriate any necessary controls re: the contents. These must be present, clear and legible at all times. (this includes radiator, hydraulic and petrol/diesel tanks)</p> <p><b>References:</b> Work Health &amp; Safety Act &amp; Regulations-</p>		
 <b>FIRE</b>	HIGH 21	MEDIUM 15
<p><b>Risk Treatments in Place: Fire Extinguisher</b> This item of plant is fitted with an approved and maintained fire extinguisher. Fire extinguisher(s) must be present and fully functional at all times. They must be readily accessible to the operator. Regular inspections must also be carried out in accordance with the manufacturer's requirements and AS 1851 – 1995</p>		
 <b>INCORRECT OPERATION</b>	HIGH 21	MEDIUM 15
<p><b>Risk Treatments in Place: Tow Point</b> This item of plant has clear towing instructions. These must be adhered to at all times when towing this item of plant. This instruction label must be serviceable at all times whilst this item of plant is in operation.</p> <p><b>References:</b> AS4177.1, Work Health &amp; Safety Act &amp; Regulations-</p>		
 <b>HIGH PRESSURE, EXPLOSION, BURNS, INCORRECT OPERATION</b>	HIGH 19	MEDIUM 13
<p><b>Risk Treatments in Place: SOPs Air Compressor</b> Review safety rules to ensure the existence of the following:</p> <p>AIR COMPRESSOR SAFETY RULES</p> <ol style="list-style-type: none"> <li>1. Never touch the air compressor head during or immediately after operation.</li> <li>2. On tank mounted units, avoid prolonged contact with the pump to tank plumbing.</li> <li>3. The air compressor must only be used in well ventilated areas, free of gasoline or solvent vapours.</li> <li>4. Never point any nozzle toward a person or any part of the body.</li> <li>5. Always wear safety goggles or glasses when using the air compressor.</li> <li>6. Always turn the air compressor off before attaching or removing accessories.</li> <li>7. Check the manufacturer's pressure rating for accessories. Regulator outlet pressure must never exceed the maximum pressure rating.</li> <li>8. Never use the air compressor in the rain.</li> <li>9. Always plug the cord into an electrical outlet with the specified voltage and adequate fuse protection.</li> <li>10. Always unplug the item of plant and release air pressure from the tank and any accessories before doing repair or maintenance.</li> <li>11. Never directly inhale the compressed air produced by this item of plant.</li> <li>12. Do not adjust, remove or tamper with the safety valve or pressure switch.</li> <li>13. If safety valve or pressure switch replacement is necessary, a part with the same rating must be used.</li> <li>14. Always check the condition of the hose and replace if damaged before using it.</li> <li>15. Never use compressed air to clean your hair or clothes.</li> </ol> <p><b>References:</b> AS/NZS1200, AS/NZS3788.1, AS3873, AS4037, Work Health &amp; Safety Act &amp; Regulations-</p>		
 <b>HEARING LOSS</b>	HIGH 19	MEDIUM 14
<p><b>Risk Treatments in Place: Hearing Protection Label - Bystanders</b> The hazard warning labels re: wearing of hearing protection for bystanders attached to this item of plant refer to the level of noise produced. Permanent hearing damage will result if hearing protection is not worn. These labels must be present, clear and legible at all times whilst this item of plant is in operation.</p> <p><b>References:</b> AS/NZS1269, AS3781-</p>		
 <b>HEARING LOSS</b>	HIGH 19	MEDIUM 14
<p><b>Risk Treatments in Place: Hearing Protection Label - Operator</b> The hazard warning label(s) re: wearing of hearing protection attached to this item of plant refer to the level of noise produced. Permanent hearing damage will result if hearing protection is not worn. These labels must be present, clear and legible at all times whilst this item of plant is in operation.</p> <p><b>References:</b> AS/NZS1269, AS3781-</p>		




	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	
	EYE DAMAGE	HIGH 19	MEDIUM 14	
<p><b>Risk Treatments in Place: Eye Protection Label</b></p> <p>The hazard warning labels re: wearing eye protection attached to this item of plant refer to the potential for score from the drilled product becoming lodged in the eye and causing serious injury. Permanent eye damage may result if eye protection is not worn. These labels must be present, clear and legible at all times.</p> <p><b>References:</b> AS1319- , AS/NZS4024.1201</p>				
	ENTANGLEMENT, SHEARING, PINCHING	HIGH 19	MEDIUM 13	
<p><b>Risk Treatments in Place: Guarding Label</b></p> <p>All the belts, pulleys and gears are guarded. These guards must be present, fully functional and serviceable at all times whilst this item of plant is in operation and the labels re: do not open or remove while engine is running must be in place and easily seen at all times.</p> <p><b>References:</b> AS/NZS4024.1201</p>				
	BURNS, ENTANGLEMENT, SHEARING	MEDIUM 14	MEDIUM 13	
<p><b>Risk Treatments in Place: Engine Guard Label</b></p> <p>The engine fan and alternator belts, pulleys and gears are guarded. These guards have clear legible hazard warning labels re do not open or remove guards while engine is running. These labels must be present, legible and easily seen at all times whilst this item of plant is in operation.</p> <p><b>References:</b> AS1319- , AS/NZS4024.1201</p>				
<b>DESIGN COMPLIANCE</b>		COLLISION, CRUSHING	CRITICAL 24	MEDIUM 15
	<p><b>Risk Treatments in Place: Park Brake</b></p> <p>The park brake fitted to this item of plant is fully functional at all times. The park brake must be regularly inspected and tested. These inspections and tests must be documented as part of your plant safety programme.</p> <p><b>References:</b> Australian Design Rules- , ISO31000</p>			
		COLLISION	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Tow Couplings (ball type)</b></p> <p>The aggregate mass of this trailer is less than 3500kg and a ball type towing coupling fitted. Accordingly a self-locking mechanism together with a separate means of automatically retaining this device in the locked position is also fitted. This device must meet the following criteria at all times whilst this item of plant is in use -</p> <p>(a) the coupling body is not prone to failure or undue deterioration with use</p> <p>(b) the coupling body is placed so that the likelihood of inadvertent damage to any component while in use is minimised</p> <p>(c) self-locking occurs when the coupling body is coupled to the towball and is verifiable by visual inspection</p> <p>(d) the self-locking device is constructed so as to prevent accidental disengagement while in operation</p> <p>(e) the self-locking device can easily be manually released to permit disengagement of the coupling body from the towball</p> <p>If at any stage any of these criteria are not met operation must cease until the appropriate remedial actions are completed by a competent person.</p> <p><b>References:</b> AS4177.3</p>				
	CUTTING, ENTANGLEMENT, SHEARING	HIGH 22	MEDIUM 15	
<p><b>Risk Treatments in Place: Emergency Stop Device</b></p> <p>This item of plant is fitted with an emergency stop device.</p> <p>The emergency stop must meet all of the following criteria whilst this item of plant is in operation:</p> <ol style="list-style-type: none"> <li>1. Is operational</li> <li>2. Is coloured red with yellow background</li> <li>3. Is clearly labeled as to purpose and method of operation</li> <li>4. Is easily accessible to the operator(s) at all times whilst operating this item of plant</li> <li>5. Resetting of emergency stop does not automatically restart machine</li> <li>6. Is located at each operator control station.</li> </ol> <p><b>References:</b> AS/NZS4024.1604</p>				

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 <b>COLLISION, CRUSHING</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Safety Chain</b>  This item of plant is fitted with a safety device (chain) which will keep this item of plant attached to the towing unit in the event of failure to the primary tow coupling. Use of this device is mandatory on public roads and use at all other times is highly recommended.</p> <p>The size and capacity of all components of this device must be proportional to the mass of this item of plant and conditions under which this item of plant is towed.</p> <p>The condition of this device must be monitored as part of your operational "pre start" checklist. If any faults are detected towing of this item of plant must not occur until repair or replacement by a competent person occurs.</p> <p><b>References:</b> AS4177.1, ISO31000</p>		
 <b>ENTANGLEMENT</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Engine Guards</b>  The engine fan and alternator belts, pulleys and gears are guarded. These guards must be present and fully functional and serviceable at all times whilst this item of plant is in operation.</p> <p><b>References:</b> AS/NZS4024.1601</p>		
 <b>NON COMPLIANCE</b>	HIGH 22	HIGH 21
<p><b>Risk Treatments in Place: Pressure Vessel Manufacturer ID Plate</b>  All pressure vessels fitted with a manufacturer's ID plate which contains the following as a minimum -</p> <ul style="list-style-type: none"> <li>(a) Manufacturer's name or identification symbol</li> <li>(b) Inspector's identification</li> <li>(c) Design pressure, in kilopascals</li> <li>(d) Hydrostatic test pressure, in kilopascals</li> <li>(e) Date of hydrostatic test, month and year, e.g. 5/2010</li> <li>(f) Design temperature in degrees Celsius</li> <li>(g) For vessels intended for low temperature service, the minimum operating temperature in degrees Celsius and the maximum allowable pressure at that temperature, in kilopascals</li> <li>(h) The vessel designation (class) number AS1210 - ?</li> <li>(i) The manufacturer's serial number for the vessel</li> <li>(j) Hazard level to AS 4343</li> <li>(k) Where appropriate, the vessel registered number</li> <li>(l) Where issued by the regulatory authority, the design identification number</li> <li>(m) The appropriate units for all pressure and temperature valves marked</li> </ul> <p><b>References:</b> AS1210.1</p>		
 <b>EXPLOSION</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Pressure Gauge</b>  This item of plant is fitted with a pressure gauge. This gauge must be fully functional at all times whilst this item of plant is in operation.</p> <p><b>References:</b> AS1210.1</p>		
 <b>EXPLOSION</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Pressure Relief Device</b>  The pressure vessel fitted to this item of plant is fitted with a fully functional pressure relief device fitted that meets the following requirements -</p> <ol style="list-style-type: none"> <li>1. Installed in the appropriate location to relieve the vessel contents that the valve is designed for</li> <li>2. Cannot be isolated or bypassed</li> <li>3. The inlet line has a flow capacity at least equal to that of the pressure relief device</li> <li>4. Discharge termination point location will not create a hazard for personnel.</li> </ol> <p>All of these requirements must be met at all times whilst this item of plant is in operation.</p> <p><b>References:</b> AS1210.1</p>		



HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 COLLISION	HIGH 22	MEDIUM 11
<p><b>Risk Treatments in Place: Turning, Braking &amp; Presence Lights</b>            This item of plant is fitted with lighting to indicate presence, turning and braking. All of these lights must be fully functional whilst this item of plant is in operation in areas of reduced light.</p> <p>If any of these lights stop working the operation must cease immediately and the faulty light be repaired before operation can continue in the areas of reduced light.</p> <p><b>References:</b> AS/NZS4024.1201</p>		
 OPERATIONAL MALFUNCTION	HIGH 22	LOW 2
<p><b>Risk Treatments in Place: Plant Modification</b>            The plant is in original condition.</p>		
 INCORRECT OPERATION	HIGH 20	MEDIUM 14
<p><b>Risk Treatments in Place: Intuitive Controls</b>            The controls fitted to this item of plant are orientated so that the movement of the control is consistent with the action of the machine e.g. moving a control lever to the left results in the machine turning to the left. This design feature must be maintained at all times whilst this item of plant is in operation.</p> <p><b>References:</b> AS/NZS4024.1906</p>		
 STRAINS	HIGH 19	LOW 5
<p><b>Risk Treatments in Place: Controls Ergonomics</b>            All controls including all levers, buttons, pedals, switches etc, are placed near the operator work position and are easy to reach and operate during the execution of the operator's normal duties. This applies for all persons within the 95th percentile of the normal population distribution.</p> <p><b>References:</b> AS/NZS4024.1901</p>		
 SLIPPING, INCORRECT OPERATION	HIGH 17	LOW 6
<p><b>Risk Treatments in Place: Control Levers/Pedals/Buttons</b>            All controls including all levers, buttons, pedals, switches etc. must be kept non-slip and free from damage at all times.</p> <p><b>References:</b> AS/NZS4024.1901</p>		
 INCORRECT OPERATION, OPERATIONAL MALFUNCTION	MEDIUM 14	MEDIUM 13
<p><b>Risk Treatments in Place: Restricted Access Switches</b>            This item of plant is fitted with a device to restrict operators. A code/key must only be given to those that have appropriate experience or training.</p> <p><b>References:</b> AS/NZS4024.1201</p>		
 BATTERY COVER ELECTRIC SHOCK, BURNS	MEDIUM 12	LOW 6
<p><b>Risk Treatments in Place: Battery Cover</b>            All batteries fitted to this item of plant are constrained to prevent displacement &amp; fitted with a permanent sturdy cover which allows for ventilation. The constraint and cover must be present and fully functional and serviceable at all times whilst this item of plant is in operation.</p> <p><b>References:</b> AS/NZS4024.1201</p>		
 EXPLOSION, CORROSION	MEDIUM 12	LOW 6
<p><b>Risk Treatments in Place: Pressure Vessel Drainage Provision</b>            The pressure vessel is fitted with a drainage point. Potentially corrosive material must be drained regularly to prevent unusual wear to the chamber walls. If corrosive material is left in the chamber for a prolonged period then a hydrastatic or ultrasonic test should be completed to confirm structural integrity.</p> <p><b>References:</b> AS1210.1</p>		

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
	 <b>SLIPPING, INCORRECT OPERATION</b>	MEDIUM 9	LOW 4
<p><b>Risk Treatments in Place: Operator Floor</b> All work area floors are non-slip and free from damage &amp; debris.</p> <p>Floor area must remain non-slip and free from damage &amp; debris, including rubbish, tools and other items, at all times whilst this item of plant is in use.</p> <p><b>References:</b> AS/NZS4024.1201</p>			
	 <b>BURNS</b>	MEDIUM 9	LOW 5
<p><b>Risk Treatments in Place: Exhaust</b> The engine exhaust on this item of plant is fitted with a guard to prevent injury to any person and control the risk of initiating a fire. It must be present and fully functional and serviceable at all times whilst this item of plant is in operation.</p> <p><b>References:</b> AS/NZS4024.1201</p>			
<b>MAINTENANCE</b>	 <b>COLLISION, CRUSHING</b>	CRITICAL 25	MEDIUM 15
	<p><b>Risk Treatments in Place: Brakes</b> The brakes fitted to this item of plant must be fully functional at all times whilst this item of plant is in operation. The brakes must be regularly inspected and tested. These inspections and tests must be documented as part of your plant safety programme.</p> <p><b>References:</b> Australian Design Rules-</p>		
	 <b>CURRENT OR PREVIOUS STRUCTURAL DAMAGE</b>	CRITICAL 25	MEDIUM 15
	<p><b>Risk Treatments in Place: Structural Integrity</b> Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc.</p>		
	 <b>INCORRECT OPERATION</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Maintenance Manual</b> The manufacturer's maintenance manual(s) has been supplied for this item of plant</p> <p>These manual(s) must be available at all times to all users and maintenance staff of this item of plant. All users and maintenance staff must read and be familiar with these handbook(s) prior to maintaining or repairing this item of plant.</p> <p>A complete risk assessment/JSEA must be undertaken covering all inspection, maintenance, servicing and transportation requirements of this piece of plant prior to use.</p> <p>A full assessment of the competence of people using the book(s) must also be undertaken</p> <p><b>References:</b> Work Health &amp; Safety Act &amp; Regulations-</p>			
	 <b>OPERATIONAL MALFUNCTION</b>	HIGH 22	LOW 2
<p><b>Risk Treatments in Place: Major Fluid Leaks</b> This item of plant must remain free from leaks at all times whilst in operation (this includes engine, transmission, cooling system, air, fuel, drive line, wheel hubs, steering and hydraulics). Development of a major leak will require this item of plant to be stood-down until repaired. Minor leaks detected must be repaired within 1-14 days.</p> <p><b>References:</b> ISO31000</p>			

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 <b>EXPLOSION</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Compressed Air Vessel Inspection Regime</b>  The pressure vessel has a pressure volume (pV) greater than 150 (pV = pressure in megapascals x tank volume in litres), the following inspections and tests have been carried out within the time frame stated?</p> <p>In-service inspector;  - External inspection - 2 yearly  - Internal inspection - 4 yearly.</p> <p>If any of the inspections or the tests are not completed as per above, operation must cease until required inspection or test is complete and documented.</p> <p><b>References:</b> AS1210.1, AS/NZS3788.1</p>		
 <b>COLLISION, INSTABILITY</b>	HIGH 22	MEDIUM 15
<p><b>Risk Treatments in Place: Tyres</b>  The tyres and wheel components must be inspected as part of a "pre start" checklist. These inspections must be documented as part of your plant safety programme.</p> <p><b>References:</b> ISO31000</p>		
 <b>OPERATIONAL MALFUNCTION</b>	HIGH 21	MEDIUM 15
<p><b>Risk Treatments in Place: Service Records</b>  Service and maintenance records are available for this item of plant.</p> <p>These records must continue to be maintained and stored in a secure area as part of your plant safety management programme. This programme includes the undertaking of regular inspections concerning the general condition of the item of plant including (but not limited to) tyre condition, oil levels and wear and tear on critical items such as brakes and steering, etc. All OEM prescribed, scheduled and non scheduled maintenance must also be documented as part of these records and attended to within a risk management framework.</p> <p><b>References:</b> Work Health &amp; Safety Act &amp; Regulations-</p>		

## SECTION 6 IMAGES AND NOTES

### IMAGES

- No Images Available -

### NOTES

- No Notes Available -

# RISK MANAGEMENT REPORT

<b>TYPE</b>	Compressors - Trailing	<b>Report Number</b>	RED 20190211-1350
<b>MAKE</b>	Atlas Copco	<b>Date</b>	11-Feb-2019
<b>MODEL</b>	XAS 88 KD	<b>Created By</b>	Phil Ryan
<b>SERIAL NUMBER</b>	WUX 664423	<b>Assessor</b>	Phil Ryan
		<b>Assist. Assessor(s)</b>	
		<b>Owner</b>	Redstar Equipment
		<b>Customer Name</b>	Matko Hire
		<b>Assessment Purpose</b>	Hire
		<b>State</b>	VIC

## OPERATOR ACKNOWLEDGEMENT

I the undersigned acknowledge that I have read and understand the risk management report described above.

I also acknowledge that I have received a copy of this risk management report.

<u>DATE</u>	<u>NAME</u>	<u>COMPANY/POSITION</u>	<u>SIGNATURE</u>

<u>DATE</u>	<u>NAME</u>	<u>COMPANY/POSITION</u>	<u>SIGNATURE</u>

**RED 20190211-1350**

Monday, 11 Feb 2019 2:15 PM



**Make** Atlas Copco  
**Model** XAS 88 KD  
**Type** Compressors - Trailing

**Serial Number** WUX 664423  
**Assessed By** Phil Ryan  
**Date** 11-Feb-2019