

TYPE	Pump - Dewatering
MAKE	Selwood
MODEL	D100
SERIAL NUMBER	0527691SD
ENGINE NUMBER	001040

Report Number	13583 20180717-0915
Date	17-Jul-2018
Created By	Tom Garrett
Assessor	Tom Garrett
Assist. Assessor(s)	Sina Panahifar
Completed By	Tom Garrett
Owner	Toolkwip Pumps Pty Ltd
Assessment Purpose	Sale
State	VIC



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SECTION 1 IMPORTANT INFORMATION

This report generated by Plant Assessor™ © Online Safety Systems on Tuesday, 17 Jul 2018 9:35 AM

This Risk Management Report has been prepared for -

S&S EQUIPMENT HIRE & SALES

(insert recipient name/company name)

This document has been prepared to cover the sale or transfer of this item of plant between the Company identified on the front cover and their named recipient. This report must not be used for any subsequent sale or transfer.

This document is provided to meet duty of care obligations as set out in relevant state and territory health and safety regulations for the supply of plant and the sale and transfer of plant.

The safety hazards associated with the operating and maintaining of this item of plant have been identified as far as practical by visual inspection. This item of plant is being sold in an "as-is" condition with known and unknown safety hazards. No physical testing has been conducted (eg. Wire rope tests, stress tests, structural/non-destructive tests, noise tests, vibration tests, brake tests, insulation tests etc.) unless stated otherwise in the notes.

This document is not intended to provide information on, nor warrant the mechanical, electrical or structural condition of this item of plant. Any information on standard features have been supplied through the manufacturer and should be used as a guide only until otherwise verified.

This item of plant should be further assessed, tested and inspected or dismantled as necessary to gauge any further hazards and /or risks relating to SPECIFIC WORKPLACE USE, which are currently unknown, in accordance with relevant standards, regulations and acts.

Under common law and relevant state and territory health and safety acts, regulations and codes of practice, there is a requirement for the plant owner, employer and operator to exercise a duty of care in the safe operation and maintenance of plant. Accordingly before this item of plant is supplied to, or used at any workplace it must be inspected to ensure it is in a fully operational, safe and serviceable condition and that operators and maintenance personnel are appropriately trained in the use & maintenance of this item of plant.

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

SECTION 2 MACHINE DETAILS

MACHINE DETAILS	- NOISE TEST RESULTS	1. Manufacturers specified noise level dBA	58
	BODY TYPE	Mounting	Trailer Mount
	CAPACITIES	Fuel Tank Capacity (Litres)	80
	DIMENSIONS/WEIGHTS	Discharge port diameter (mm)	100
		Height (mm)	2200
		Length (mm)	3700
		Maximum shut off head (m)	26
		Maximum solids size (mm)	29
		Operating weight (kg)	1300
		Suction port diameter (mm)	100
	DRIVES	Width (mm)	1500
		Drive unit	Diesel Engine

ENGINE	Engine Make & Model	Isuzu 2CA1-AZP01
	Engine No Cylinders/Cc	2
	Engine Petrol/Diesel	DIESEL
	Engine Power kW/(Hp)	10 (13.4)
EXTRAS	Vacuum assist	Diaphragm
GENERAL	Snore	Std
HYDRAULICS	Pump type	Centrifugal
PLANT CLASSIFICATIONS	Class	Dewatering Pump
	Construction	CI
	Year	2018
REQUIREMENTS	Power required (kW)	6.5
SAFETY SYSTEMS	Auto shutdown	yes
WORK CAPABILITIES	Maximum Flow (L/Min)	2000
	Maximum suction lift (m)	8.8
EXTRAS	Other	Hose racks & cage

SECTION 3 RISK ANALYSIS / RISK EVALUATION

RISK ANALYSIS		CONSEQUENCE				
LIKELIHOOD		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
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. <small>(source AS/NZS ISO 31000:2009)</small>	
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
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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	 COLLISION, INCORRECT OPERATION	HIGH 22	MEDIUM 15
	<p>Risk Treatments in Place: Tow Coupling Label 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.</p> <p>References: AS4177.3</p>		
OPERATION	 INCORRECT OPERATION	CRITICAL 24	MEDIUM 15
	<p>Risk Treatments in Place: Operator Competency 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.</p> <p>References: Work Health & Safety Act & Regulations-</p>		
	 INCORRECT OPERATION	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Operation Handbook 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> <p>References: Work Health & Safety Act & Regulations-</p>			

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	
 INCORRECT OPERATION	HIGH 22	MEDIUM 15	
Risk Treatments in Place: Pre-op Checklist Pump - Dewatering A pre-operational checklist is available for this Pump - Dewatering. All operators must complete this checklist prior to operating this Pump - Dewatering.			
References: Work Health & Safety Act & Regulations-			
 INCORRECT OPERATION	HIGH 22	MEDIUM 15	
Risk Treatments in Place: SOP Pump - Dewatering Safe Operation Procedures are available for this Pump - Dewatering. The information in the Safe Operation Procedures must be followed at all times whilst operating this Pump - Dewatering.			
References: Work Health & Safety Act & Regulations-			
 INCORRECT OPERATION	HIGH 22	MEDIUM 15	
Risk Treatments in Place: Control Labels 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.			
References: AS/NZS4024,1905			
 POISONING, EXPLOSION, BURNS	HIGH 22	MEDIUM 15	
Risk Treatments in Place: Tank ID Label 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)			
References: Work Health & Safety Act & Regulations-			
 INCORRECT OPERATION	HIGH 21	MEDIUM 15	
Risk Treatments in Place: Tow Point 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.			
References: Work Health & Safety Act & Regulations-			
 BURNS, ENTANGLEMENT, SHEARING	HIGH 19	MEDIUM 13	
Risk Treatments in Place: Engine Guard Label 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.			
References: AS1319- , AS/NZS4024.1201			
DESIGN COMPLIANCE	 COLLISION, CRUSHING	CRITICAL 24	MEDIUM 15
	Risk Treatments in Place: Park Brake 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.		
References: Australian Design Rules- , ISO31000			

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 COLLISION	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Tow Couplings (ball type) 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> <ul style="list-style-type: none"> (a) the coupling body is not prone to failure or undue deterioration with use (b) the coupling body is placed so that the likelihood of inadvertent damage to any component while in use is minimised (c) self-locking occurs when the coupling body is coupled to the towball and is verifiable by visual inspection (d) the self-locking device is constructed so as to prevent accidental disengagement while in operation (e) the self-locking device can easily be manually released to permit disengagement of the coupling body from the towball <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>References: AS4177.3</p>		
 COLLISION, CRUSHING	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Safety Chain 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>References: AS4177.1, ISO31000</p>		
 ENTANGLEMENT	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Engine Guards 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>References: AS/NZS4024.1601</p>		
 OPERATIONAL MALFUNCTION	HIGH 22	LOW 2
<p>Risk Treatments in Place: Plant Modification The plant is in original condition.</p> <p>References: ISO31000</p>		
 STRAINS	HIGH 19	LOW 5
<p>Risk Treatments in Place: Controls Ergonomics 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>References: AS/NZS4024.1901</p>		
 SLIPPING, INCORRECT OPERATION	HIGH 17	LOW 6
<p>Risk Treatments in Place: Control Levers/Pedals/Buttons All controls including all levers, buttons, pedals, switches etc. must be kept non-slip and free from damage at all times.</p> <p>References: AS/NZS4024.1901</p>		

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
	 BATTERY COVER ELECTRIC SHOCK, BURNS	MEDIUM 12	LOW 6
	Risk Treatments in Place: Battery Cover All batteries fitted to this item of plant are constrained to prevent displacement & 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.		
	References: AS/NZS4024.1201		
	 BURNS	MEDIUM 9	LOW 5
	Risk Treatments in Place: Exhaust 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.		
	References: AS/NZS4024.1201		
MAINTENANCE	 COLLISION, CRUSHING	CRITICAL 25	MEDIUM 15
	Risk Treatments in Place: Brakes 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.		
	References: Australian Design Rules-		
	 CURRENT OR PREVIOUS STRUCTURAL DAMAGE	CRITICAL 25	MEDIUM 15
	Risk Treatments in Place: Structural Integrity Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc.		
References: ISO31000			
 INCORRECT OPERATION		HIGH 22	MEDIUM 15
Risk Treatments in Place: Maintenance Manual The manufacturer's maintenance manual(s) has been supplied for this item of plant 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. A complete risk assessment/JSEA must be undertaken covering all inspection, maintenance, servicing and transportation requirements of this piece of plant prior to use. A full assessment of the competence of people using the book(s) must also be undertaken			
References: Work Health & Safety Act & Regulations-			
 OPERATIONAL MALFUNCTION		HIGH 22	LOW 2
Risk Treatments in Place: Major Fluid Leaks 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.			
References: ISO31000			
 COLLISION, INSTABILITY		HIGH 22	MEDIUM 15
Risk Treatments in Place: Tyres 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.			
References: ISO31000			

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 OPERATIONAL MALFUNCTION	HIGH 21	MEDIUM 15
<p>Risk Treatments in Place: Service Records 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>References: Work Health & Safety Act & Regulations-</p>		

SECTION 6 IMAGES AND NOTES

IMAGES

- No Images Available -

NOTES

- No Notes Available -

RISK MANAGEMENT REPORT

TYPE	Pump - Dewatering	Report Number	13583 20180717-0915
MAKE	Selwood	Date	17-Jul-2018
MODEL	D100	Created By	Tom Garrett
SERIAL NUMBER	0527691SD	Assessor	Tom Garrett
ENGINE NUMBER	001040	Assist. Assessor(s)	Sina Panahifar
		Owner	Toolkwip Pumps Pty Ltd
		Assessment Purpose	Sale
		State	VIC

PURCHASER ACKNOWLEDGEMENT

I the undersigned acknowledge that I have read and understand the risk management report described above. I also acknowledge that I have recieved a copy of this risk management report. I also acknowledge that I am authorised to sign on behalf of the purchaser.

Name _____
 Company Name _____
 Position _____
 Signature _____
 Date _____

The manufacturer's operational & maintenance handbooks have been supplied,
 (circle one) YES NO (initial) _____

Please transfer this assessment to my Plant Assessor membership as a (circle one) HIRE / PLANT IN USE
 assessment.

My Plant Assessor email is _____

