# RISK MANAGEMENT REPORT

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|---|---|
| **TYPE** | Generator - Fixed/Transportable |
| **MAKE** | Pramac |
| **MODEL** | P9000 |
| **UNIT NUMBER** | PF752SRAY16 |

| | |
|---|---|
| **Report Number** | 13739 20190903-1336 |
| **Date** | 03-Sep-2019 |
| **Created By** | Ben Paine |
| **Assessor** | Ben Paine |
| **Assist. Assessor(s)** | |
| **Completed By** | Ben Paine |
| **Owner** | PR Australia Pty Ltd |
| **Assessment Purpose** | Hire |
| **State** | NSW |


# TABLE OF CONTENTS

## SECTION 1 IMPORTANT INFORMATION

This report generated by Plant Assessor™ © Online Safety Systems on Tuesday, 3 Sep 2019 1:54 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

MACHINE DETAILS

| | | |
|---|---|---|
| **- NOISE TEST RESULTS** | 1. Manufacturers specified noise level dBA | |
| **CAPACITIES** | Fuel Tank Capacity (Litres) | |
| **DIMENSIONS/WEIGHTS** | Dry Weight (kg) | 204 |
| | L x W x H (mm) | 990 x 602 x 826 |
| | Max Operating Weight (kg) | 230 |
| **ELECTRICAL** | Amperage (amps) | 38.26 |
| | Current (watts) | 7900 |
| | Frequency (Hz) | 50Hz |
| | Voltage (volts) | 230 |
| **ENGINE** | Engine Displacement (Litres) | .693 |
| | Engine Hours | 0 |
| | Engine Make & Model | Lombardini 25LD330 |
| | Engine Number | |
| | Engine Power (kW@rpm) | |
| | Fuel: Petrol/Diesel/Gas | DIesel |
| | Number of Cylinders | 2 |
| **WORK CAPABILITIES** | Max Output | |

## SECTION 3 RISK ANALYSIS / RISK EVALUATION

### RISK ANALYSIS

| LIKELIHOOD \ 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 |
|---|---|---|---|---|---|
| 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 |
|---|---|---|---|
| DELIVERY | CRUSHING | HIGH 22 | MEDIUM 15 |
| | **Risk Treatments in Place:** **SWMS Load Restraint**<br>Ensure that all operators follow the approved SWMS/SOP when restraining this machine for transport.<br>**References:** Work Health & Safety Act & Regulations- | | |
| | CRUSHING | HIGH 22 | MEDIUM 15 |
| | **Risk Treatments in Place:** **Certified Lifting Points**<br>This item of plant is fitted with an approved lifting point(s) (crane attachment point(s)). When lifting by crane this point must be used, if more than one point is present then all must be used.<br>**References:** ISO31000 | | |
| OPERATION | INCORRECT OPERATION | CRITICAL 24 | MEDIUM 15 |
| | **Risk Treatments in Place:** **Operator Competency**<br>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.<br>**References:** Work Health & Safety Act & Regulations- | | |
| | INCORRECT OPERATION | HIGH 22 | MEDIUM 15 |
| | **Risk Treatments in Place:** **Operation Handbook**<br>The manufacturer's operation handbook has been supplied for this item of plant.<br><br>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.<br><br>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. | | |

| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating |
|---|---|---|
| **INCORRECT OPERATION** | HIGH 22 | MEDIUM 15 |

**Risk Treatments in Place:** **Pre-op Checklist Generator**
A pre-operational checklist is available for this Generator. All operators must complete this checklist prior to operating this Generator.

**References:** Work Health & Safety Act & Regulations-

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|---|---|---|
| **INCORRECT OPERATION** | HIGH 22 | MEDIUM 15 |

**Risk Treatments in Place:** **SOP Generator**
Safe Operation Procedures are available for this Generator. The information in the Safe Operation Procedures must be followed at all times whilst operating this Generator.

**References:** Work Health & Safety Act & Regulations-

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|---|---|---|
| **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

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|---|---|---|
| **POISONING, BURNS, EXPLOSION** | HIGH 22 | MEDIUM 15 |

**Risk Treatments in Place:** **Engine**
Review Safe Operation Procedures to ensure the existence of the following:

FUEL COMBUSTION ENGINES SAFE OPERATION PROCEDURES

1. Switch off the engine before refueling.
2. NEVER smoke in the vicinity of, and keep sources of sparks away from, any flammable liquid or fuel.
3. Let the engine cool down before refueling.
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.
5. Use extreme care when filling fuel tanks.
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).
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.
8. Ensure to correctly fit and firmly tighten the screw cap of the fuel tank.
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).
10. Fuel cannot be stored for an unlimited period of time. Buy only as much as will be consumed in the short term.
11. When making up the fuel/oil mixture, always put the oil in the mixing container first, and then the fuel.
12. Use only approved and appropriately marked containers for the transport and storage of fuel.
13. Keep children away from fuel, fuel storage and operating machinery!
14. Where possible, keep an appropriate fire extinguisher nearby during operations utilising flammable liquids
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.
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.

**References:** Work Health & Safety Act & Regulations-

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|---|---|---|
| **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-

DESIGN COMPLIANCE

| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating |
|---|---|---|
| **ENTANGLEMENT, SHEARING, PINCHING** | HIGH 19 | MEDIUM 13 |
| **Risk Treatments in Place:** **Guarding Label**<br>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 runninig must be in place and easily seen at all times.<br>**References:** AS/NZS4024.1201 | | |
| **BURNS, ENTANGLEMENT, SHEARING** | MEDIUM 14 | MEDIUM 13 |
| **Risk Treatments in Place:** **Engine Guard Label**<br>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.<br>**References:** AS1319- , AS/NZS4024.1201 | | |
| **ENTANGLEMENT** | HIGH 22 | MEDIUM 15 |
| **Risk Treatments in Place:** **Engine Guards**<br>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.<br>**References:** AS/NZS4024.1601 | | |
| **OPERATIONAL MALFUNCTION** | HIGH 22 | LOW 2 |
| **Risk Treatments in Place:** **Plant Modification**<br>The plant is in original condition.<br>**References:** ISO31000 | | |
| **INCORRECT OPERATION** | HIGH 20 | MEDIUM 14 |
| **Risk Treatments in Place:** **Intuitive Controls**<br>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.<br>**References:** AS/NZS4024.1906 | | |
| **STRAINS** | HIGH 19 | LOW 5 |
| **Risk Treatments in Place:** **Controls Ergonomics**<br>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.<br>**References:** AS/NZS4024.1901 | | |
| **SLIPPING, INCORRECT OPERATION** | HIGH 17 | LOW 6 |
| **Risk Treatments in Place:** **Control Levers/Pedals/Buttons**<br>All controls including all levers, buttons, pedals, switches etc. must be kept non-slip and free from damage at all times.<br>**References:** AS/NZS4024.1901 | | |
| **INCORRECT OPERATION, OPERATIONAL MALFUNCTION** | MEDIUM 14 | MEDIUM 13 |
| **Risk Treatments in Place:** **Restricted Access Switches**<br>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.<br>**References:** AS/NZS4024.1201 | | |

| HAZARD(S) | Prelim. Risk Rating | Residual Risk Rating |
|---|---|---|
| BATTERY COVER **ELECTRIC SHOCK, BURNS** | MEDIUM 12 | LOW 6 |
| **Risk Treatments in Place:** **Battery Cover**<br>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.<br>**References:** AS/NZS4024.1201 | | |
| **BURNS** | MEDIUM 9 | LOW 5 |
| **Risk Treatments in Place:** **Exhaust**<br>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.<br>**References:** AS/NZS4024.1201 | | |
| MAINTENANCE<br>**CURRENT OR PREVIOUS STRUCTURAL DAMAGE** | CRITICAL 25 | MEDIUM 15 |
| **Risk Treatments in Place:** **Structural Integrity**<br>Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc.<br>**References:** ISO31000 | | |
| **INCORRECT OPERATION** | HIGH 22 | MEDIUM 15 |
| **Risk Treatments in Place:** **Maintenance Manual**<br>The manufacturer's maintenance manual(s) has been supplied for this item of plant<br><br>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.<br><br>A complete risk assessment/JSEA must be undertaken covering all inspection, maintenance, servicing and transportation requirements of this piece of plant prior to use.<br><br>A full assessment of the competence of people using the book(s) must also be undertaken<br>**References:** Work Health & Safety Act & Regulations- | | |
| **OPERATIONAL MALFUNCTION** | HIGH 22 | LOW 2 |
| **Risk Treatments in Place:** **Major Fluid Leaks**<br>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.<br>**References:** ISO31000 | | |
| **OPERATIONAL MALFUNCTION** | HIGH 21 | MEDIUM 15 |
| **Risk Treatments in Place:** **Service Records**<br>Service and maintenance records are available for this item of plant.<br><br>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.<br>**References:** Work Health & Safety Act & Regulations- | | |

## SECTION 6 IMAGES AND NOTES

### IMAGES

- No Images Available -

## NOTES

- No Notes Available -

# RISK MANAGEMENT REPORT

| | | | |
|---|---|---|---|
| **TYPE** | Generator - Fixed/Transportable | **Report Number** | 13739 20190903-1336 |
| **MAKE** | Pramac | **Date** | 03-Sep-2019 |
| **MODEL** | P6000 | **Created By** | Ben Paine |
| **UNIT NUMBER** | PF752SRAY16 | **Assessor** | Ben Paine |
| | | **Assist. Assessor(s)** | |
| | | **Owner** | PR Australia Pty Ltd |
| | | **Assessment Purpose** | Hire |
| | | **State** | NSW |

# 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.

| DATE | NAME | COMPANY/POSITION | SIGNATURE |
|---|---|---|---|
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