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Standard Operating Procedure

General Purpose Transfer Pump

Equipment description

The General-Purpose Transfer Pump is a self-contained air-cooled diesel driven positive displacement pump suitable for pumping a range of fluids from light to moderately viscous. It can handle small amounts of debris and contamination.

Technical Specification

Weight:	60kg
Fuel type:	Diesel
Engine:	Yanmar Diesel Engine
Pump:	Regent Pumps RD76 single diaphragm

Health and Safety

All PPE to be appropriate for the liquid being pumped.

To safely operate this equipment two people are required.

Safe Operating Requirements

- Ensure adequate PPE is worn – as detailed above
- Ensure adequate ventilation of the working area
- Provide suitable eyewash facility when required (depending on product)
- JSA to be conducted prior to work commencing
- Take all precautions suitable for the liquid being transferred, including minimising skin contact and avoiding vapour
- Clean up any spillage immediately
- Safety Data Sheet (SDS) for liquid being transferred must be available
- All personnel are to be trained in the use of the transfer pump, or under the close supervision of a trained operator

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Operational instructions

Emergency shutdown

In the event that an emergency shutdown is required, the following measures should be taken.

- Move the throttle to the “off” position to cease pumping
- Shut off any valves
- Ensure liquid does not self-siphon or run back through the pump

Pre-start checks

- Check general condition of all equipment, hoses and ancillaries
- Check operation of pump throttle
- Check engine oil level on pump
- Check fuel level on pump
- Check the remaining capacity of the container/tank to be filled

Operation

- Connect rigid suction hose to pump inlet
- Connect other end to container to be pumped, or immerse into liquid to be pumped
- Connect discharge hose to pump outlet
- Connect other end to container to be filled
- When ready to start transferring liquid, start the pump motor and commence transfer

Post operation

When transfer operation is finished:

- Stop Engine.
- Close all valves.

When all transfer operations are complete:

- Drain all hoses back into bulk container where possible
- Disconnect all hoses, being aware a catch tray may be required to catch excess liquid
- Clean and flush pump and all hoses, using solvents/cleaning products as appropriate
- When clean, drain pump and fill pump cavity with lubrication or biodegradable oil. Turn engine over to distribute oil around moving parts
- When dry, repack all equipment and ancillaries
- Ensure that all equipment is returned to response ready condition

Note: do not flush contaminants into the stormwater system or the ocean

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Additional information

Maintenance

- All maintenance and repairs are to be completed in accordance with either the manufacturer or the AMOSC procedures.
- All equipment must be left in an operational condition when not in use.
- All defects must be repaired immediately or the equipment be “tagged out” for maintenance and repair.

Related Documents

AMOSC HSSE Plan
PN08 - HSSE Policy
AMOSC JSA Template
Relevant SDS