

Standard Operating Procedure

Lamor Minimax 12 Skimmer



Equipment Description

The Minimax 12 is a lightweight, portable oleophilic brush skimmer, designed for the recovery of light to heavy viscous oils in sheltered waters. The Minimax 12 utilizes the Lamor brush wheel system, which combines high oil recovery capacity with a low free water pick-up rate. The unit is connected to a Lamor LPP7 suction pump.

Technical Specification

Weight:	28.0kg (Skimmer) 450kg (Total package weight)
Fuel type:	Diesel
Engine:	Hatz Diesel
Pump:	C75 Spate Pump
Capacity/hour:	12m ³
Hydraulic fittings:	Tema female/male
Hydraulic flow:	1-3 lpm
Hydraulic Pressure:	60-100 Bar

Health and Safety



To safely operate this equipment the above PPE is required.

Safe Operating Requirements

- All personnel are to be trained in the use of the Minimax 12 and accessories or under the close supervision of a trained operator
- Job Safety Analysis (JSA) to be conducted prior to work commencing. Identification of the following safety factors are critical, but not limited to:
 - o Manual Handling,
 - o Slips/Trips/Falls,
 - o Contamination/Decontamination.
- Ensure adequate Personal Protective Equipment (PPE) is worn – as detailed above.
 - o * Life jackets must be worn near water depending on operation.
- A communication plan must be decided upon to ensure clear and concise communication at all times
- All incidents, accidents and near misses must be reported as per AMOSC HSSE Plan.

Operational Instructions

Emergency shutdown

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

- Shut down power pack immediately where safe to do so.
- Return the hydraulic flow control to “off” position.
- Communicate according to the designated communications plans.

Pre start checks

- Remove the skimmer and all ancillary equipment from the storage container.
- Ensure that fuel and oil levels are checked on the power pack.
- Check the hydraulic hoses for damage or wear.
- Visually inspect all other equipment for damage or wear

Note: Ensure the hydraulic flow control valve is in the closed position, to do this rotate the valve in an anti-clock wise direction.

Assembly

- Connect the battery to the power pack
- Lay out the hydraulic hoses and connect them to the power pack and the skimmer using a sorbent pad to catch any spilt hydraulic fluid.
- Ensure the locking rings on the hydraulic fittings are locked in place.

Note - Failure to correctly connect all hoses may result in failure and extensive damage to the pump unit.

- Ensure that the hydraulic flow control is at the lowest setting.
- Connect the suction hose between the skimmer and pump and discharge hose between the pump and waste storage
- Attach floats to the suction hose near the skimmer to support the hose in the water.
- Ensure that the engine stop control is in the “run” position and start the engine.
- Check the operation of the skimmer.
- Stop the engine.

Operation:

- When the skimmer has been deployed, start the engine.
- Gradually open the hydraulic flow control valve to start the skimmer head rotating.
- Adjust the speed of the skimmer head rotation with the hydraulic flow control valve. The speed of rotation should be adjusted to the point at which an optimal oil recovery rate is achieved.

Excessive rotational speed will reduce oil recovery efficiency by collecting excessive amounts of water.

- Once the operation is complete, stop the power pack and return the hydraulic flow control valve to the “off” position.
- Remove the skimmer from the water, minimising any secondary contamination.

Caution

- If the skimmer and accessories are contaminated with oil, care must be exercised when retrieving to avoid causing secondary contamination. Ground sheet/Sorbent boom/bunded area should be used to mitigate this.
- Drain all suction and discharge hoses, flushing through to remove remaining contamination.
- Disconnect hydraulic hose connections and fit dust covers. Ensure that spilt hydraulic fluid is captured.

Post operation – Contaminated Equipment

- Establish a bunded cleaning station.
- Clean skimmer and accessories with hot water and detergents. If required, diesel fuel can be used to assist with the cleaning process.
- The skimmer and accessories are to be dried out prior to maintenance inspection, re-stowage and storage
- Ensure all equipment is returned to response ready condition.

Note - Maintenance of the skimmer and accessories are to be performed as listed below.

Post operation – Uncontaminated Equipment

- The skimmer and accessories should be laid out and washed with fresh water.
- The skimmer and accessories are to be dried out prior to maintenance inspection, re-stowage and storage

Note - Maintenance of the skimmer and accessories are to be performed as listed below.

Additional Information

Maintenance

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

Related Documents:

AMOSC HSSE Plan
PN08 - HSSE Policy
AMOSC JSA Template
PN 11 AMOSC Vehicle Use Policy (AMOSC Vehicle Checklist / AMOSC Load Assessment Checklist)
SOP 1001 Ops; Forklift Operations
SOP 1002 Ops; Loading and Securing of Cargo
SOP 1003 Ops; Transporting Equipment To/ From Warehouse
SOP 2006; Waste Storage - Fastank
SOP 2006-1; Waste Storage - IBC