

Standard Operating Procedure

Skimmer – Komara Disc 12K



Equipment Description

The Komara 12K is an oleophilic disk skimmer designed for use in sheltered waters. The skimmer is designed to be effective at recovering group 2 and 3 oils. The Komara 12k skimmer is used in conjunction with a combined power pack and pumping unit.

Technical Specification

Weight:		Hydraulic fittings:	Tema 2500 female/male
Power type:	Hydraulic	Hydraulic flow:	
Capacity / hour:	12m ³	Hydraulic pressure:	2500psi
Suction connection:	3 inch		

Health and Safety



To safely operate this equipment 2 people are required.

Safe Operating Requirements

- Ensure adequate PPE is worn – as detailed below,
- All personnel are to be trained in the use or under the close supervision of a trained operator
- If required a 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 Vehicle/Vessel Movements,
 - o Pinch Points
 - o Spatial Awareness
 - o Contamination/Decontamination.
- Ensure adequate Personal Protective Equipment (PPE) is worn –
 - o * Life jackets must be worn on or near water dependant on operation
- A communication plan must be decided upon to ensure clear and concise communication at all times
- Be aware of pinch points and ‘the bight’ between the vessel during deployment.
- A full safety brief must be conducted.
- The captain on any assisting vessel must follow the instructions from the main vessel captain.
- A person located in the working area of the main vessel should be appointed Team Leader. They are responsible for the practical deployment of the equipment.
- This person should be part of the radio communication chain.
- All incidents, accidents and near misses must be reported as per AMOSC company policy.

Operational Instructions

Pre-start checks

- Ensure that all pre-start checks, including fuel and oil levels are completed on power pack.
- Check hydraulic hoses for damage or wear.
- Visually inspect the skimmer for damage or wear.
- If applicable, ensure that all lifting equipment is in date and in good condition.
- Lay out hydraulic hoses and connect the power pack to the skimmer ensuring that any spilt hydraulic fluid is captured.
- 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.

- 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 hydraulic flow control is in the "off" position.
- Ensure that the engine stop control is in the run position and start the engine.
- Check the operation of the disks.
- Stop the engine.

Operation

- When the skimmer has been deployed, start the engine.
- Start the discs rotating.
- The speed of disc rotation is set after observing the skimmer and adjusting according to oil/water behaviour on the discs.
Excessive disc rotation speed will reduce oil recovery efficiency by collecting water.
- Once the operation is complete, stop the power pack and set the hydraulic flow control to the off position.
- Remove the skimmer from the water, minimising any secondary contamination.

Caution If the skimmer has been contaminated with oil, care must be exercised when retrieving it to avoid causing secondary contamination. Ground sheet/Sorbent boom/bunded area should be used to mitigate this. If the skimmer is contaminated with oil, roll it onto a ground sheet, seal it and take it to a bunded cleaning station to be washed.

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.

Post operation

- Drain all suction and discharge hoses, flushing through to remove remaining contamination where appropriate.
- Disconnect hydraulic hose connections and fit dust covers. Ensure that spilt hydraulic fluid is captured.
- Clean skimmer with hot water. **DO NOT** use detergents on disc surfaces, as they reduce the recovery efficiency. If required, diesel fuel can be used to assist with the cleaning of the skimmer.
- Strip and clean pump, test with fresh water after reassembly.
- Top up all fluid levels as required.
- Ensure all equipment is returned to response ready condition.

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 immediately or the equipment 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 Eqt; Waste Storage Fastank

SOP 2006-1 Eqt; Waste Storage IBC

