FLOATING OIL STORAGE BARGE

SYSTEM LSB 100 H

GENERAL DESCRIPTION

The Lamor Floating Oil Storage Barge, LSB 100 H, is an inflatable oil storage barge with a deep V-keel. It is fitted with an open top design and a removable canopy cover. The barge is also easy to empty and clean, due to the open top construction. The barge is packed in an aluminum storage box along with 2 Air Blowers and accessories. The Offloading system includes an Oil Transfer Pump, Power Pack, water injection pump and are all stored in a 10' container, along with other accessories needed for its fully autonomous operation.

MAIN COMPONENTS

The system is composed of the following main components:

- 1 x Lamor Oil Storage Barge LSB 100 H
- 1 x Lamor Oil Storage Barge system aluminum container
- 2 x Air Blower Diesel DAB 48 YJ

Offloading system

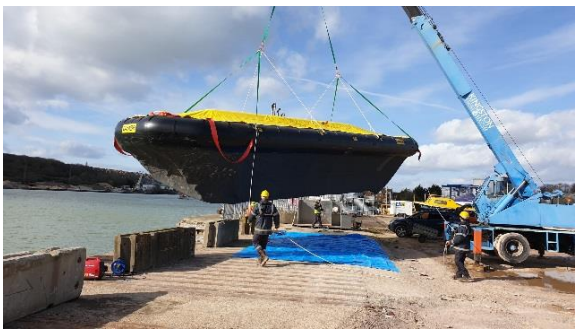
- 1 x Oil Transfer Pump GTA 70
- 1 x Water Injection Pump LAWI 105
- 1 x Set Hydraulic Hoses
- 1 x Set Oil Transfer Hoses
- 1 x Power Pack Diesel Driven LPP 35 L/38cc Stage V
- Spare Parts
- 10' Container with side and end doors

KEY CHARACTERISTICS

The key characteristics of the system are:

- The LSB system is an inflatable versatile Oil storage solution, it is Hypalon coated (chlorosulfonated polyethylene (CSPE) synthetic rubber) for added durability, Hypalon as a material is resistant to chemicals, UV and extreme temperatures.
- Maximum storage capacity of 100 m3/h.
- The system has a hydrodynamic design that enables easy towing and ensures proper directional stability during tow.
- The system is designed to be assembled and operated from the deck of a vessel or harbor. The inflation of the system is however fully independent from the vessel and includes two fuel-powered diesel air blowers for ensuring a faster inflation of the system.
- It can be deployed rapidly and is capable of handling both light and heavy oil.

- The collected oil is off-loaded by a Lamor Positive Displacement Archimedes Screw (PDAS) pump type GTA 70, and transferred via the discharge hose. This pump has a water/steam annular injection connections on the inlet and a debris cutting knife to handle solids such as seaweed, plastics and ropes.
- The system is provided with proper means for facilitating its deployment on water (dedicated lifting points and lifting appliances for use by a vessel crane).
- Once deployed in water, the system remains attached and is towed by the vessel by using a dedicated towing point on the craft and the towing lines provided with the system.
- The maximum towing speed is 10 kn when empty, and 5 kn when fully loaded.



TECHNICAL SPECIFICATIONS

Oil Storage Barge

LENGTH (operational)	15150 MM
WIDTH (operational)	5350 MM
WEIGHT	730 KG
STORAGE VOLUME	100 m^3
RECOMMENDED BOLLARD PULL	5 t
NEEDED DECKSPACE Assembly area	164m^2 (22,5m length x 7,3m width)
DEPLOYMENT TIME	60 MIN
OPERATING TEMPERATURES	-2 ˚C to +40 ˚C

Oil storage barge system storage box

LENGTH	2630 MM
WIDTH	1300 MM
HEIGHT	1672 MM
WEIGHT (Gross)	1200 KG

Containerized storage craft and offloading system

LENGTH	2970 MM
WIDTH	2500 MM
HEIGHT	2590 MM
WEIGHT (Gross)	4500 KG

STORAGE & TRANSPORT

The Lamor Floating Oil Storage Barge and offloading system is stored in a custom Aluminum box, which in turn can be stored in the 10’ container along with the offloading system.

OPERATIONS

The system is designed in such a way that it can easily and quickly be taken into use. Preparing and deploying one barge requires at minimum an area of 16 x 6m and two operators. The vessel towing the barge should have a bollard pull of 5 tons and preferably a center tow post. When deploying the barge from a ship a deck crane capable of handling the weight and size of the inflated barge is required.