

An underwater photograph of a large, rusted metal shipwreck, likely an oil tanker, lying on the seabed. The ship is heavily corroded and surrounded by debris. The water is clear blue, and the seabed is visible at the bottom. The image is framed by a dark blue circular graphic on the left and bottom edges.

# Shipwreck Oil Removal

Your preferred partner on the journey  
towards a cleaner tomorrow

[lamor.com](http://lamor.com)

**LAMOR**

# Introduction

A potentially polluting wreck is a shipwreck containing a cargo or large volume of its own fuel that remains within the wreck and has the potential to cause an environmental hazard should the structure become compromised and either leak or catastrophically release. There is potential for some of the 8,500 wrecks worldwide to begin leaking within the next 10 years, as the corrosion of their structures accelerates, partly due to climate change, potentially releasing 2.5 to 20 million tonnes of cargo into the marine environment.



## Lamor's SUBVAC systems

**SUBVAC** is the brand name of Lamor's system for extracting environmentally hazardous substances from shipwrecks and grounded vessels. The SUBVAC system is a product family that includes all the necessary technology for oil removal operations from fuel tanks.

### This product family includes, for example:

- a vacuum pump
- a separator unit for oil and vacuum separation
- hydraulic power packs, steam generators
- water pumps, electric generators
- compressed air compressors
- various connection and transfer hoses
- viscosity control hoses with
- hydraulically operated hose reels and
- several other specialized tools for these operations.

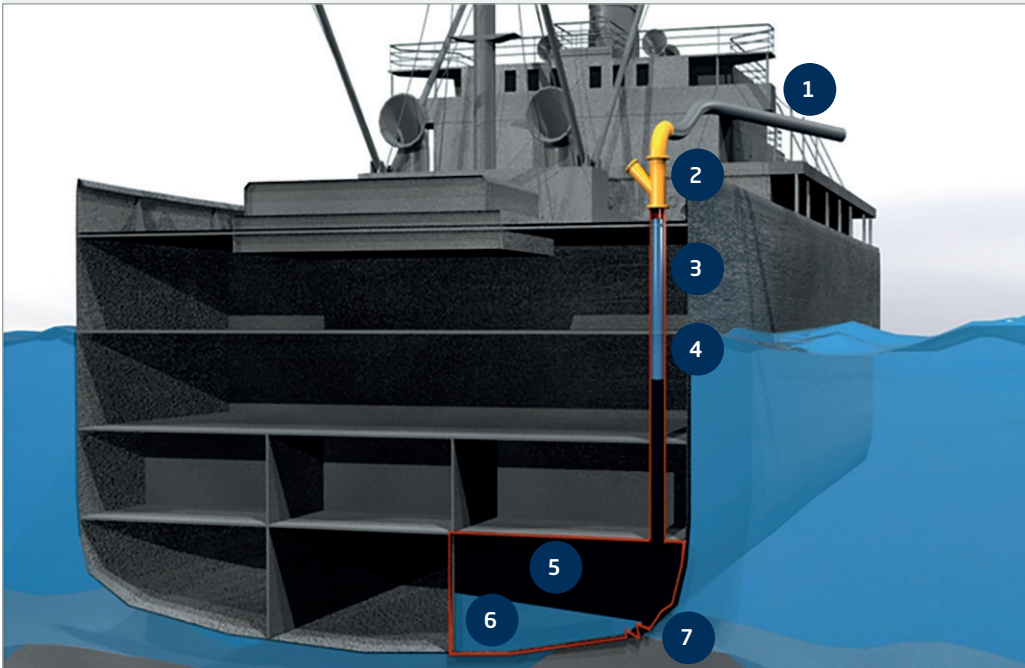
In addition, SUBVAC continually develops its readiness to respond to unexpected projects and to offer its expertise and products for both domestic and global projects in the industry. SUBVAC's business is primarily project-based.



# Shipwreck Oil Removal

SUBVAC is designed for oil recovery from grounded vessels and shipwrecks, implemented using underwater robots (ROVs) and remotely controlled tools. The SUBVAC system and its tools are compatible and have been thoroughly tested.

The design has specifically taken into account the demanding conditions at sea, and wherever possible, common parts are used across the system to ensure backup options and minimize the need for spare parts.

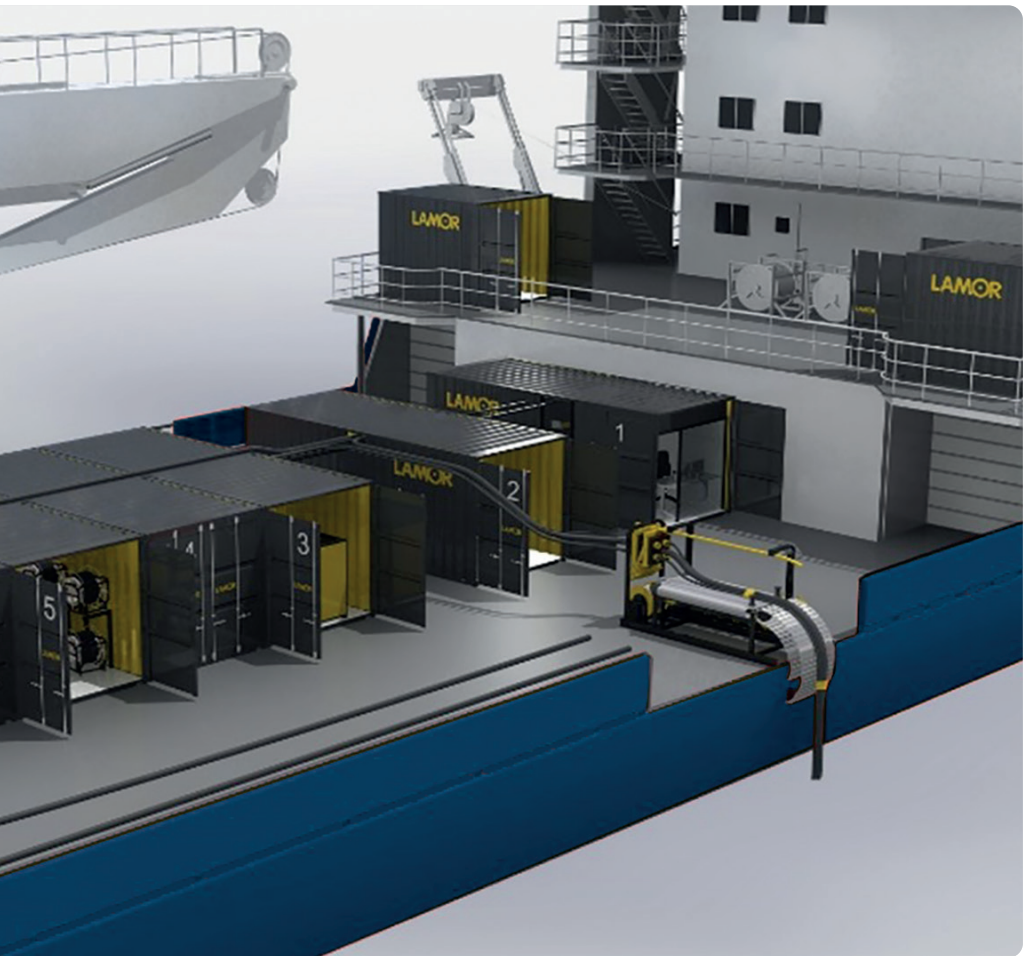


1. Suction/oil transfer hose with viscosity control
2. Suction hose connection and oil viscosity control hose to the air pipe and tank
3. Fuel tank air/ventilation pipe
4. The oil is at sea level in the air pipe
5. The oil is on the top surface of the tank
6. Seawater leaked into the tank
7. Damage in the tank

# Benefits of using the SUBVAC system

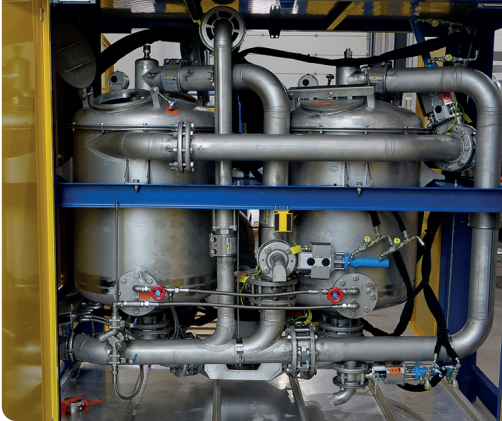
Oil removal operations have been and will continue to be conducted. While competitors offer partial solutions, the industry lacks a highly specialized operator with fully tested, salvage-specific tools. The SUBVAC system, along with its expertise and tools, provides a comprehensive solution.

Lamor has developed specialized methods for oil removal from grounded vessels. This technology partially utilizes the same vacuum-based systems employed in the oil removal from wrecks.





Lamor's goal is to carry out the decommissioning of wrecks safely – both from an environmental damage perspective and from the standpoint of employee safety. Lamor has decades of experience in environmental damage prevention. We are now expanding our operations to also cover the decommissioning phase of wrecks, specifically tank emptying.

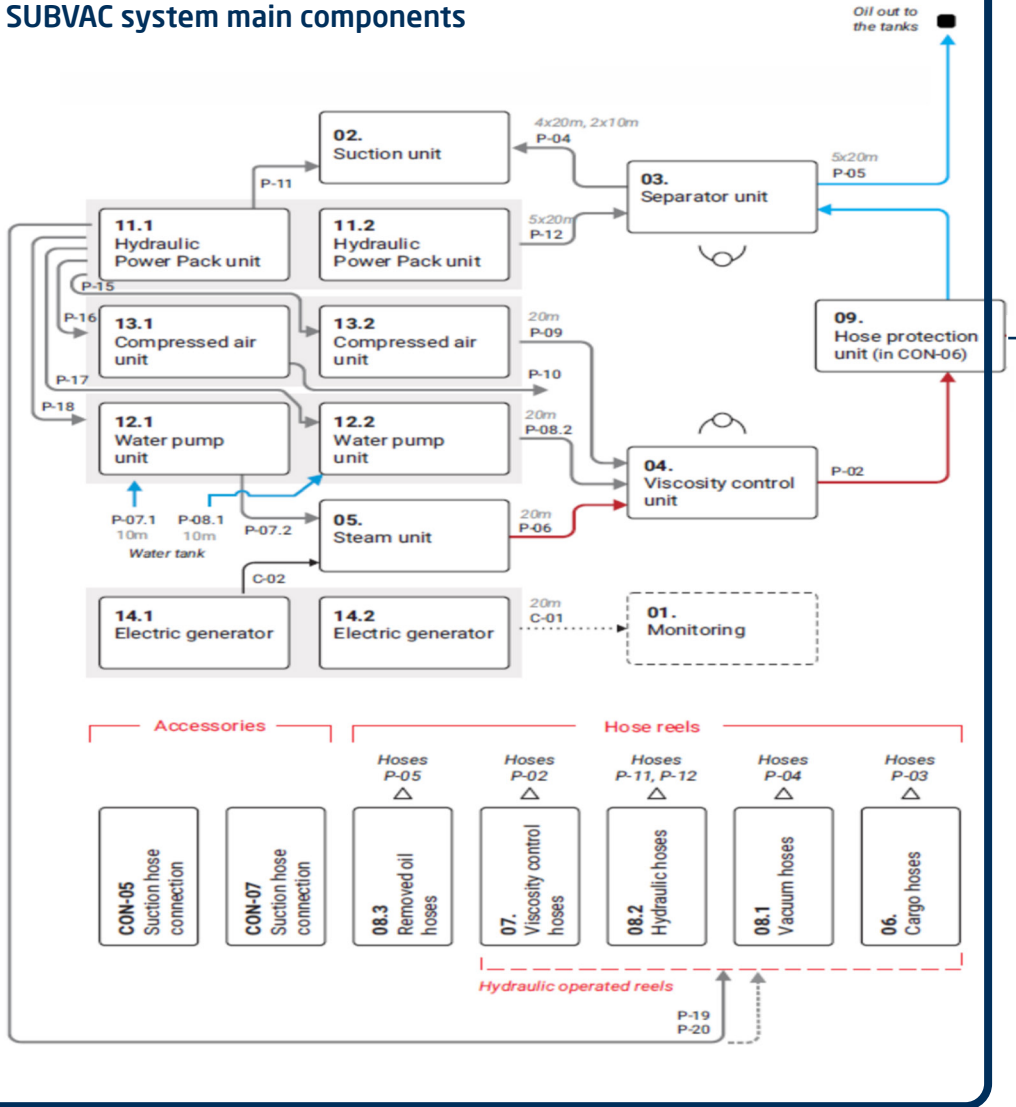


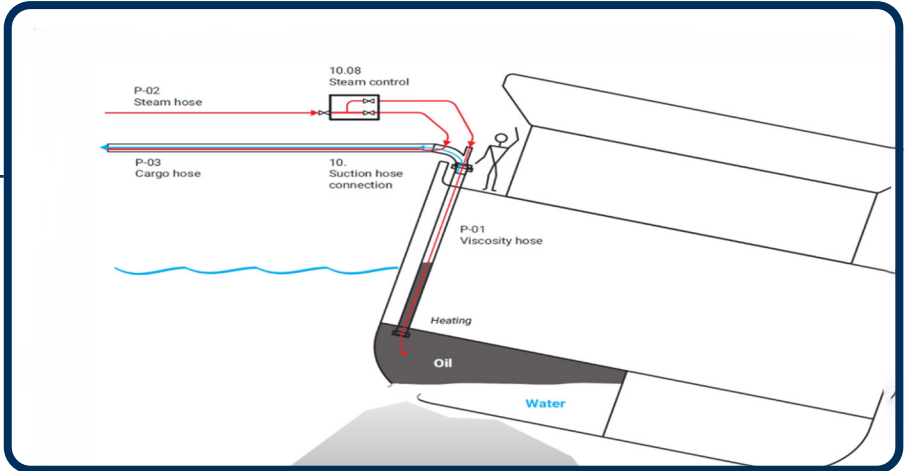
Oil removal operations includes several phases. Containment of the area must be carried out carefully. Ensure environmental protection in the operation area, prevent oil from spreading, recover oil from water and cleaning in the platform.



# SUBVAC system functions

## SUBVAC system main components

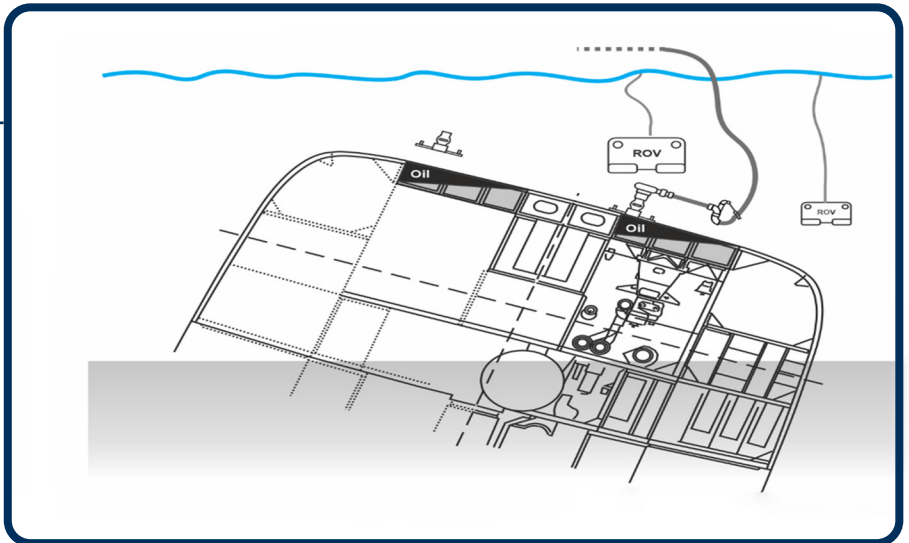




or

**SUBVAC grounded vessel oil removal operation**

**SUBVAC shipwreck oil removal operation**



# LAMOR

Let's clean the world

## Lamor in brief

---

Lamor is one of the world's leading providers of environmental solutions. For four decades, we have worked to clean up and prevent environmental incidents on land and at sea.

Environmental protection, soil remediation and material recycling: Our innovative technologies, services and tailored solutions, ranging from oil spill response, waste management and water treatment to soil remediation and plastic recycling, benefit customers and environments all over the world.

We are capable of vast and fast operations thanks to our connected ecosystem of local partners, steered by our experts. Lamor's share is listed on the Nasdaq Helsinki (ticker: LAMOR). Further information: [www.lamor.com](http://www.lamor.com)