



# TANK CLEANING & WASTE MANAGEMENT SERVICES

## TANK CLEANING

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Tiger is recognized for our safety track record and consistently delivering outstanding performance in confined space tank cleaning services globally. We provide de-sludging and decontamination for both liquid and dry bulk storage tanks, utilizing intrinsically safe technology and robust safety procedures to remove various contaminants inclusive of hydrocarbon-based fluids, sludges, SOBMs, WBMs, cement, barite and other dry bulk products. Our typical applications include cleaning of PSVs, Super Tankers, USTs, Pressure Vessels, Cargo Tanks, Ballast Tanks, FPSOs & MODUs.

Tiger handles a multitude of waste streams providing safe storage and transport solutions in compliance with our Journey Management Program. We also provide waste treatment and disposal solutions either at a certified Tiger facility or a 3rd party sub-contractor depending on the work site location.

Our operations are governed by Safe Work Procedures which are customized specific to the job being performed regardless of the application or the tank contents. Our cleaning systems provide a safe, efficient, engineered and environmentally compliant solution with guaranteed results. Tanks and vessels are returned to their original state, free of contamination with minimal interruption to daily operations.

## TURN-KEY SERVICES

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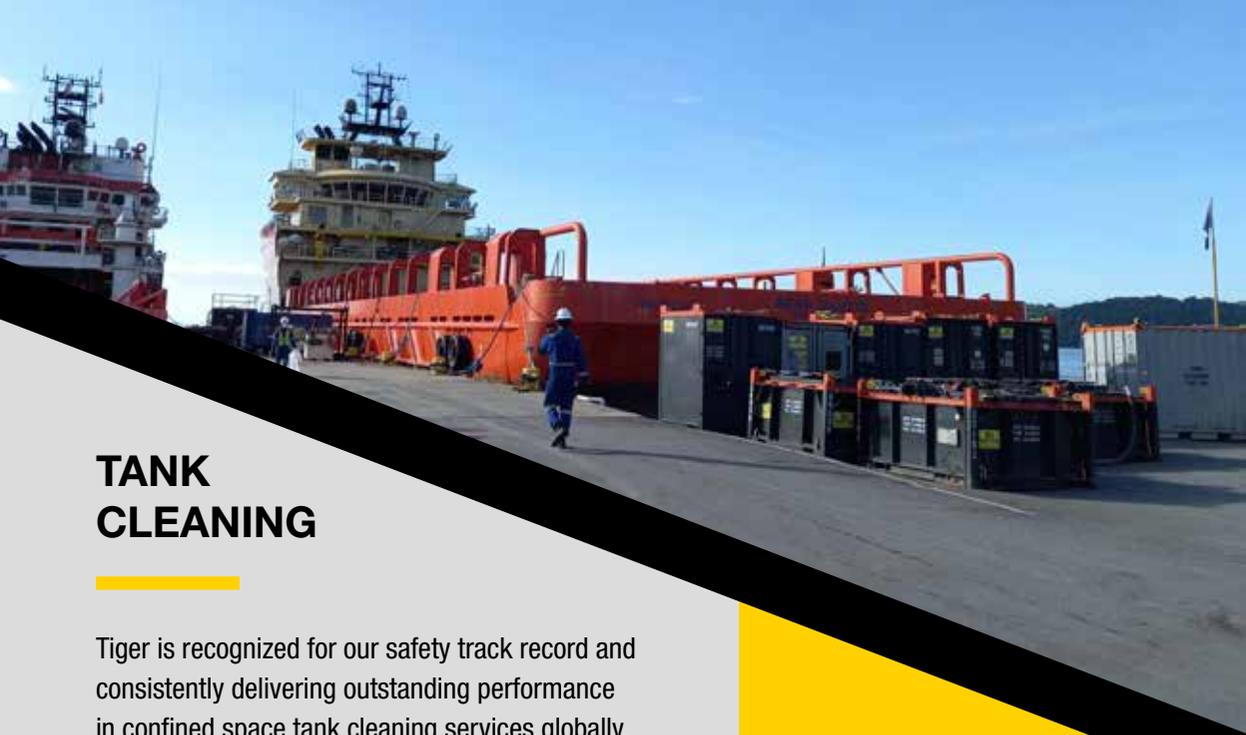
- Project Management
- Automated & Conventional Confined Space Tank Cleaning
- Dry Bulk (Dust Free) Tank Cleaning
- Waste Treatment: Removal & Remediation
- Hazardous Waste Management: Storage, Transportation & Disposal
- Emergency Spill Response
- Completion Fluids Disposal
- Water Treatment & Recycling
- Bulk Liquid Tank Storage
- Cargo Carrying Units, Tanks & Equipment Rentals

## PROJECT MANAGEMENT

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Tiger offers turnkey project management services for waste cleaning solutions. Our goal is to provide clients with an expedited 'cradle to grave service' while ensuring quality, safety and protection of personnel and the environment. We work closely with clients to determine the type of tank cleaning needed based on an assessment of remaining product (ROB) identification, hazards, and the tank condition.

Our experienced team will provide a Project Execution Plan that outlines critical areas to address such as, scope of work, risk assessment, permit to work, job safety analysis, emergency response, evacuation procedures, as well as hazardous waste management.



## TIGER PROVIDES INTEGRATED SOLUTIONS

### Automated Tank Cleaning (ATC)

Tiger's ATC Process uses a closed loop system with chemically enhanced biodegradable micro surfactant pumped at high pressure to the strategically placed cleaning nozzles.

A number of high trajectory cleaning cycles will take place with continuous monitoring of the tank surfaces. The system is capable of breaking heavy solids into slurry and the recycled wash water is reused to minimize overall water usage and total waste produced.

### Dry Bulk Tank Cleaning (Vacuum Systems)

Dry Bulk Tanks (cement, barite, calcium carbonate, sulphur and edible grain) are semi-automatically cleaned using powerful vacuum suction to remove and transport the residual powders to the hopper unit. This enables dust free removal and packaging of the waste into jumbo bags for disposal.

Confined space entry personnel equipped with appropriate breathing apparatus will be required to manage the hoses and ensure thorough removal of any solidified product from the tank surfaces.

### Hazardous Waste Management

Tiger has developed and established technology for management and disposal of hazardous waste at our certified locations. Tiger also works through a network of 3rd party contractors to ensure all the hazardous waste generated is transported and disposed of in the correct manner as per regulatory requirements. Documentation and tracking of the waste process is generated and recorded as evidence of the process from 'cradle to grave'.

### Quality, Health, Safety & Environment (QHSE)

Tiger's robust QHSE standard operating procedures and documentation are imperative to ensure the consistency and quality of our services globally. Tiger's total project management approach means that irrespective of location, clients will benefit from safer operations and compliant hazardous waste management.

## ENVIRONMENTAL BEST PRACTICE

### Recycling & Beneficial Reuse of Wastewater

All wastewater generated from the tank cleaning exercise is recovered and processed for reuse. The extracted oil and solids are treated in accordance with regulatory requirements and internationally accepted environmental standards.





## THE DIFFERENCE

Tiger's best-in-class technology, competent personnel, and 18+ years of experience with a proven safety track record allows us to optimize the tank cleaning process resulting in faster turnarounds, waste reduction and ultimately lowering cost. We minimize QHSE risks inherent with confined space entry by utilizing automated cleaning systems. Tiger's operations are governed by safe operating procedures, and we perform risk assessments prior to and during each job to ensure the safety of our personnel.

## WHY CHOOSE TIGER?

- ISO 9001, 14001 & 45001 Certified
- Safe Operations
- Certified, Trained & Experienced Personnel
- Innovative Products & Solutions
- Hazardous Waste Management Solutions
- Reduced Downtime, Confined Space Entry, Waste and Total Cost
- 24-Hour Service & Rapid Response



*Tiger's experienced team is committed to providing world-class solutions to help clients maximize production, mitigate risk and avoid any additional costs, always with safety in mind.*

*Tiger Offshore has a growing geographic presence that spans across the globe. We have key locations in North America, South America, Africa, the Mediterranean, and the Middle East allowing us to provide essential services and equipment immediately, 24/7/365.*





## INTEGRATED OR STAND-ALONE

Tiger's services & rental equipment work as an integrated solution or independently.

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### CORE PRODUCTS

- Baskets
- Tool Boxes
- Waste Skips
- Cuttings Boxes
- Specialized Carriers
- Pipe Slings & Racks
- Containers & Reefers
- Supply Vessel Pipe Racks
- Fluid, Storage & Mix Tanks

*DNV 2.7-1 Certified: Maintained & inspected in compliance with international standards.*



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Tel: +1-877-844-3791  
[TigerOffshoreRentals.com](http://TigerOffshoreRentals.com)