

Ambipar Europe: Raising the Bar in Sustainable Tank Cleaning

A Trusted Partnership Reignited/The Problem

In late 2024, a valued client reconnected with **Ambipar Europe**, seeking support for a critical project: the cleaning of one of their primary crude oil storage tanks. The relationship was built on trust, as Ambipar had successfully cleaned the same tank in 2021, and the client knew they could rely on Ambipar's expertise once again.

Initially, the client explored their options with multiple contractors operating in the the **Automatic Tank Cleaning (ATC)** scope. However, concerns around emerging risks with the tank floor, cost of the operation, and a need for a quick turnover prompted a change in direction. With these risks accelerating the project timeline by six weeks, the client chose Ambipar to come in with a solution that was not only technically sound but also environmentally responsible.

Delivering Innovation Under Pressure/The Solution

Ambipar's team quickly mobilised, delivering a full suite of automated cleaning equipment to site including a pumping module, centrifuge, boiler, and nitrogen generation system. The ATC process was executed with precision and speed, completing in just 12 days, well ahead of the 21-day schedule and even beating the 14-day best-case estimate. The tank initially held **2,500m³ of crude oil and sludge**. Thanks to Ambipar's advanced recovery process, only **60m³** required off-site disposal, an impressive **98% reduction in waste volume**.

The automated cleaning phase not only reduced hydrocarbon residues and vapour levels but also transformed the conditions for manual cleaning. Confined space manhours dropped dramatically from an estimated 1,500 to just 200, making the process faster, safer, and more efficient for everyone involved.



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Key Outcomes

Ambipar's approach delivered tangible benefits, such as:

- Significant cost savings for the client due to reduced waste disposal volumes.
- Our reliable equipment, alongside effective key systems, guaranteed minimal disruptions.
- A substantial reduction in greenhouse gas emissions, compared to traditional tank cleaning methods.
- A cleaner, safer worksite that aligned with the client's sustainability goals.
- Extensively reduced operational downtime as the project was completed 9 days ahead of schedule.

A Model for Sustainable Industrial Operations

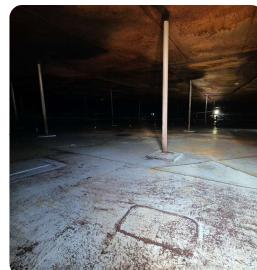
This project exemplifies Ambipar Europe's commitment to innovation, safety, and sustainability, showcasing its ability to deliver high-performance automated tank cleaning solutions under tight timelines. By combining cutting-edge technology with expert personnel and a structured delivery model, Ambipar not only met the challenge, they exceeded expectations. The tank was cleaned safely, efficiently, and ahead of schedule, with a remarkable reduction in waste volume that significantly lowered disposal costs and environmental impact.

The result? A cleaner tank, a safer team, and a greener footprint, reaffirming Ambipar's role as a strategic partner in sustainable industrial operations.

BEFORE



AFTER



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in environmental
services.