

The TriStar PetroServ Difference

- Global operations
- Total tank management
- Engineered solutions
- API-certified personnel
- Unmanned cleaning solutions



*Global
Tank Cleaning
Innovation*



*Aboveground
Storage Tank
Cleaning*

*Material
Processing*

Degassing



Global Tank Cleaning Innovation

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TriStar PetroServ

Technology to
maximize efficiency

Ingenuity to
solve problems

Expertise to
assure safety

Experience to
perform dependably

From routine jobs to the largest, most complex projects, TriStar PetroServ has the resources to deliver innovative solutions. TriStar has earned the trust of leading companies in refining, petrochemical, pipeline, power generation, pulp and paper, and industrial applications worldwide. From advanced robotics and innovative material processing methods to cutting-edge chemical and thermal degassing techniques, TriStar delivers optimal results and the best overall cost-efficiency.

Comprehensive Services

Aboveground Storage Tank (AST) Cleaning. TriStar provides clean, gas-free tanks in preparation for API 653 inspections, repairs, product changes, decommissioning and other requirements. We handle tanks of any size or design, with any type of product, including crude oil, fuel oil, decanted slurry oil, slop oil, light end/finished products and more.



Robotic Sludge Extraction.

TriStar is a leader in applying robotic technology to improve efficiency and enhance safety. TriStar robotics minimize the need for personnel entry, reduce vapor emissions and can eliminate the need to cut door sheets.

Tank Degassing. TriStar provides degassing, VOC control and odor control using chemical processes or thermal oxidation. Chemical treatment eliminates benzene, LEL, H₂S and pyrophoric iron sulfides using formulations that are safe, biodegradable and compatible with metallurgy and wastewater systems. TriStar's custom-engineered portable thermal oxidizers deliver > 99% efficiency while processing from 500 to 2,000 CFM. All technologies comply with the toughest safety and regulatory requirements.

Liquid/Solid Separation. TriStar performs two-phase (liquid/solid) and three-phase (oil/water/solid) processing of hydrocarbon waste streams to recover valuable hydrocarbons and prepare them for process unit feed. Phase separation provides significant cost savings by reducing waste volume for outhaul and disposal/incineration.

Centrifuge-Based Processing & Treatment. TriStar's variable-speed, horizontal decanting centrifuges have the versatility to address a variety of refining and process industry needs. They can process heavy solids and yield dry centrifuge cake (as required for decanted slurry oil bottoms), as well as maintain



tight recovered oil specifications for applications such as wastewater and crude oil processing. As needs change, centrifuges may easily be added or removed in modular fashion to minimize equipment costs.

On-Site Sludge Management/Processing Services.

TriStar provides extended-term, on-site management of waste streams on monthly to multi-year contracts. Systems may be established for virtually any volume, with the ability to process multiple feed streams simultaneously. TriStar specialists work with you to optimize efficiency and determine the most cost-effective disposal options.



Coker Slurry Preparation and Injection. To minimize hazardous waste outhaul and convert waste into valuable product, TriStar processes waste streams for coker injection. This includes slurring hydrocarbon-based sludge for coker feed and slurring aqueous-based sludge or centrifuge cake to feed the coker on the quench side.

Oil Processing and Treatment. TriStar processes waste oil streams to break emulsions and convert off-spec materials into usable products.

Safety



TriStar employs highly trained, full-time tank cleaning and sludge processing operators and managers, under the supervision of a full-time Health, Safety & Environmental Director. TriStar was among the first in the industry to have API-certified tank entry supervisors on staff.


TriStar crew members are experienced and trained according to the highest safety standards, including:

- Required OSHA Training
- 40-Hour HAZWOPER
- CPR/First Aid
- API 2015
- Tank cleaning procedures in accordance with API 2015
- Confined Space Entry
- EPA, Federal, State & Local Regulations

TriStar PetroServ services are available worldwide. To find the representative near you or to discuss your specific requirements, call +1 713.463.9200.

REFINERIES
PETROCHEMICAL PLANTS
PIPELINES
POWER PLANTS

PULP AND PAPER MILLS
CRUDE OIL TANK FARMS
PRODUCT TERMINALS
INDUSTRIAL FACILITIES

 **EnvirAware™**
All processes are specially
designed to provide
optimum performance
without harming
the environment.