



MOBILE LABORATORY SYSTEMS CATALOG

What is a Mobile Laboratory?

A **Mobile Laboratory** is a fully integrated, self-contained testing facility designed to deliver accurate and real-time analytical results directly at the site.

Theta Process Inc. has developed advanced **mobile laboratory** systems tailored for Oil & Gas, **Water & Wastewater**, and Industrial applications. These units eliminate the need for sample transportation, significantly reducing analysis time and operational costs.

Equipped with high-precision laboratory instruments, independent power systems, water supply, and climate-controlled environments, our mobile labs are engineered for harsh field conditions while maintaining laboratory-grade accuracy.



Key Advantages

- On-site real-time analysis
- Reduced laboratory turnaround time
- Elimination of sample contamination risks
- Fully independent operation (Power, Water, HVAC)
- Compact and optimized layout
- Customizable based on client requirements

System Configuration

- Laboratory benches with modular layout
- Integrated analytical instruments
- Built-in water system (clean & waste)

Laboratory Services & Testing Capabilities

Theta Process Inc. **Mobile Laboratories** are designed to deliver a comprehensive range of on-site analytical services across oil & gas, water, and industrial applications.

Our systems are engineered to perform high-accuracy **laboratory** tests under field conditions, ensuring reliable data for operational decision-making.

Oil & Lubricants Analysis

- Viscosity Measurement (Single Temperature)
- Flash Point Determination
- Viscosity Index Calculation
- TAN / TBN Measurement
- Pour Point Analysis
- Water & Sediment Content (BS&W)
- Density Measurement

Water & Wastewater Analysis

- Complete Water Analysis (Physical / Chemical / Microbial)
- Dissolved Oxygen (DO)
- CO₂ Measurement
- Conductivity & TDS
- Turbidity Measurement
- Alkalinity Measurement
- Oil in Water Detection
- Ion Analysis (Titration Methods)

Crude Oil & Gas Testing

- H₂S in Crude Oil & Gas
- Salt in Crude (Electrochemical / Titration)
- API Gravity & Density
- Vapor Pressure (RVP)
- Viscosity Profile (60–140°F)
- Asphaltene & Wax Content
- Sulfur Content
- Distillation (Atmospheric)



Why Choose Theta Process Inc?



Enhanced Capabilities

- On-Site, Real-Time Data Collection
- Broad Spectrum of Analytical Tests
- High-Precision and Reliable Results



Improved Efficiency

- Reduce Downtime and Transport Delays
- Quick Response to Operational Issues
- Fully Equipped and Ready to Deploy

Cost-Effective Solutions

- Eliminate Sample Transport Costs
- Reduce Downtime for Laboratory Testing
- Accurate Data for Optimized Operations



Expert Support

- Certified and Experienced Chemists
- Adherence to Industry Standards
- Detailed Analytical Reporting



Technical Features & System Design



Independent Power System

- Built-in Generator (Diesel / Optional-Hybrid)
- External Power Connection Capability
- UPS Backup for Sensitive Equipment

Water System

- Clean Water Tank
- Waste Water Tank
- Integrated Sink & Drain System

Environmental Control

- HVAC System (Cooling & Heating)
- Ventilation & Air Extraction
- Designed for Harsh Environments

Laboratory Layout Design

- Dual-Side Bench Configuration
- Compact Equipment Integration
- Pull-out Working Surfaces
- Built-in Storage Cabinets

Additional Features

- Built-in Refrigerator
- Optional Rooftop Sleeping Unit
- Safety & Fire Protection System

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Mobile Laboratory Solutions

Precision. Mobility. Performance.

Providing advanced mobile laboratory systems for oil, gas, and industrial applications. Theta Process Inc. delivers reliable, high-precision analytical solutions directly to your field operations.

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