

BUREAU VERITAS

Oil & Petrochemicals



Refineries & Terminals

Providing Specialist Support for
Refinery & Terminal Operations



**BUREAU
VERITAS**



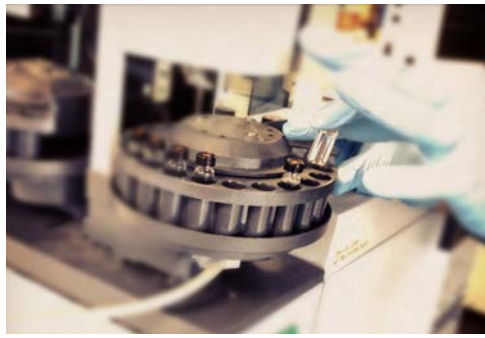
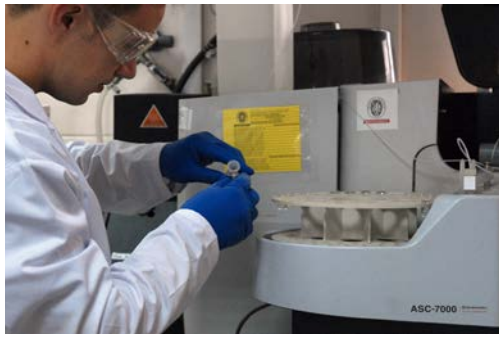
Refineries & Terminals

It is fundamental for the operational efficiency of a refinery or terminal that a functioning laboratory, with the most up-to-date methods and determination is available, usually on-site. However, due to increasing internal competition for capital, and increasing external technical standards, many in-house laboratories do not receive the funding or technical focus to continue to meet all market and efficiency requirements.

Bureau Veritas supports refiners with testing process streams, lubricants, hydraulic fluids, crude oil, end products and water effluent. Our laboratories are fully equipped to support customers with sampling, logistics, fast turnaround testing and reporting.

Our core business is to manage and develop laboratories - thus lowering running costs and capital expenditure. We have delivered numerous laboratory outsourcing projects around the world for global majors from overflow subcontracting up to full lab outsourcing. Bureau Veritas is your global provider of analytical services for lubricants, petroleum and refined products.

| Key Features | Customer Benefits |
|--|--|
| 150 years of technical excellence in the Oil & Petrochemicals market | Your product expert for crude oil, natural gasoline, condensates, petroleum refined products, kerosene, motor fuels and biofuels |
| Extensive global network of inspectors, surveyors and laboratories | Ability to test your products anywhere, any time, with reduced transportation costs and turnaround time |
| Precise, dependable and prompt reporting | Accurate results, the first time, every time |
| Independent testing results | Our certificates of analysis are trusted and respected by all interested parties |
| In-house Technical Services group | Ability to support customers with R&D initiatives incl. trouble shooting, method development and regulatory compliance |
| Ability to utilize existing network infrastructure | Outsourcing analytical requirements is simple and cost efficient |



Testing & Analysis

Bureau Veritas laboratories offer analytical services with fast turnaround times on testing, reporting and consultancy. We support our customers with routine quality control & assurance testing and specialised services like crude assays, blending services and logistics.

Our laboratories are engaged in continuous improvement to ensure we consistently achieve best-practice in terms of accuracy, speed, traceability and efficiency and meet the latest legislative requirements.

Our global technical governance team monitors laboratory operations to ensure reliable, repeatable test results.

Key Capabilities

Additive Blending and Treatment

Metals by Elements

Component Blending

Method Development

Compositional Analysis

Microbiological Contamination

Crude Oil Assay

Process & Effluent Water Testing

Detailed Hydrocarbon Analysis

Process Monitoring

Gas Chromatography

RFG Testing Capability

Key Property Testing

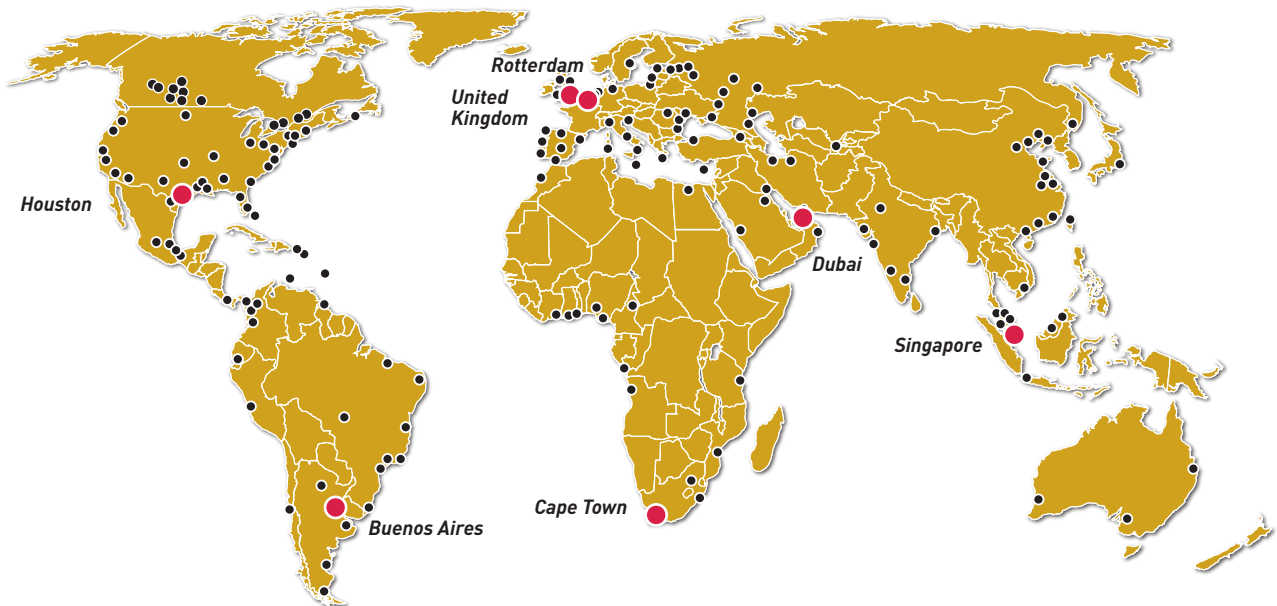
RON, MON and Cetane Engines

Bureau Veritas also provides support during the design, construction, commissioning and operation of refineries and terminals, including:

- Functional analysis
- Reliability studies
- Stress analysis
- Certification of embedded software and on-board equipment & systems
- Management of the overall certification process (CS-25)
- Quality system and supply chain management
- Audit, survey & assessment of maintenance, design & engineering of sub-contracted activities.

BUREAU VERITAS

Oil & Petrochemicals Global Network



- Regional Centres
- Oil & Petrochemical Locations

Contact our Global Sales Team using the numbers below:

| | | | |
|----------------|-----------------------|-----------|----------------------|
| United States | Tel: +1 281 848 5829 | UAE | Tel: +971 4 899 8100 |
| United Kingdom | Tel: +44 1376 536 800 | Singapore | Tel: +65 6866 3019 |
| Benelux | Tel: +31 10 472 04 22 | Australia | Tel: +61 8 8416 5237 |
| South Africa | Tel: +27 21 425 1800 | | |



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