In the past few years we have seen the inspection & testing industry undergoing significant changes, many attributable to the requirements of ISO 9000. However the essentials of the inspection & testing business have remained the same; an inspection company operates to provide accurate and, as importantly, timely information.

In dynamic and fluctuating commodity markets it is obvious that the speed with which we deliver fast and accurate inspection & testing details to the client is a pivotal role. Saybolt, as a "leading edge" inspection company, will therefore concentrate on maximising the speed of reporting, whilst safeguarding quality, to become the world leader in providing our customers with not only the best, but also the quickest, service.

**WE'RE FAST!** is our motto, and therefore a key element in Saybolt's operations.
We are confident that our profile will bring added value in today's market, and will assist all our clients in the achievement of their corporate objectives and goals.
Saybolt

a Core Laboratories Company

Core Laboratories acquired Saybolt by 1997. Being a Core Laboratories Company, global positioning and diversification of services were further boosted. Saybolt clients and partners include major oil and chemical companies, traders, shippers and buyers and insurance interests. Saybolt also specialises in representing governmental institutions and international organisations, such as the European Union and the United Nations, and their specialised agencies and programmes.
History

Since 1898

For more than a century, Saybolt is providing a wide range of independent inspection, monitoring, verification and analytical services. From the very early days of the petroleum industry, Saybolt has developed from a one-man independent surveying company established by Edward Saybolt in 1898 into a multi-disciplinary service provider with offices and laboratories strategically located throughout the world. Saybolt is headquartered in Rotterdam, the Netherlands, strategically placed amidst one of the largest storage and refining centres in the world.

Whilst technological innovation has increased exponentially since 1898, the basic principles of inspection remain constant: to provide swift, accurate and reliable services. Independence and Integrity are the unshakable cornerstones of the Saybolt operations.
Policies on Ethics, Health & Safety, Quality and the Environment

Throughout its diversified activities, Saybolt applies the highest standards and principles regarding ethics, quality, health & safety and protection of the environment. These policies apply to the services provided by Saybolt, as well as to its personnel and professional staff performing these services.

Saybolt's services are offered and implemented in accordance with the highest possible quality standards throughout its worldwide network, no matter where. A high standard of uniformity is a key element in Saybolt's operations.
Saybolt offices and laboratories around...
India
Indonesia
Italy
Ivory Coast
Jamaica
Jordan
Kazakhstan
Kuwait
Latvia
Lebanon
Lithuania
Malaysia
Malta
Mauritania

Mexico
Mongolia
Morocco
Netherlands
Netherlands Antilles
Nigeria
Norway
Oman
Pakistan
Panama
Peru
Philippines
Poland
Portugal
Puerto Rico
Qatar
Romania
Russian Federation
Saudi Arabia
Singapore
South Africa
South Korea
Spain
Sweden
Syria
Taiwan
Thailand
Togo
Trinidad & Tobago
Tunisia
Turkey
Turkmenistan
U.S. Virgin Islands
Ukraine
United Arab Emirates
United Kingdom
United States of America
Venezuela
Vietnam
Yemen

the world
Crude Oil Division

The Saybolt Crude Oil Division is a specialized department of Saybolt International structured to manage, coordinate and market the Saybolt Crude Oil operations on an international basis.

One of the most important activities of the Crude Oil Division is Loss Control and Cargo Management, which includes loss analysis, cargo monitoring and loading/discharge superintendence services. This service allows our clients to eliminate losses in the process of shipments and custody transfer operations.

The Saybolt Crude Oil Division maintains a specialized website for Crude Oil traders and operational personnel of oil, trading and service companies which provides a strong and universal tool for the analysis and monitoring of Crude Oil movements worldwide. The information on the website is supported by daily updates on the current port information from more than 100 ports worldwide.
Mineral Oil Division

The Mineral Oil Division provides some of the core activities of Saybolt, including a wide variety of inspection and analytical services available for the handling, transport and storage of mineral based liquids. The International Desks in Rotterdam, New Jersey, Taiwan / Singapore and our Middle East coordination centre provide assistance around the clock, seven days per week, to support the Mineral Oil Division and maintain direct contact with its customers.

Services of the Mineral Oil Division include the independent quantity and quality inspection of crude oil and gas on board of vessels and barges, quality testing of crude oil in Saybolt laboratories, crude oil quantity measurement in various types of shore tanks and storages, quantity inspection of Rail Tank cars, crude oil and gas quantity measurement during pipeline transfers, quantity re-calculations using various types of calculation procedures, methods and tables, crude oil blending management, which includes blending calculations, cargo testing, blending supervision and cargo quality assurance, crude oil research, including development and maintenance of crude oil databases and statistics, terminal audits cargo measurement, pipeline transfer control and extensive analytical services for other commodities such as gas oil, natural gas, liquefied petroleum gas, gasoline, naphtha, petrol, jet fuel and kerosene as well as lubricating oils.

Mineral Oil Division special services include crude oil assays for producers and refiners, quality consultations, arbitration analyses, determination of cause-solution of contamination, control of additives and blending programmes. The MOD provides quality oversight to crude receipts on an on-going basis to enable refiners to optimise operations and minimize disruptions.
Chemical Division

Saybolt's Chemical Division offers a wide variety of inspection and analytical services for handling, transport and storage of chemicals worldwide.

Products handled by the Saybolt Chemical Division include various solvents, aromatics, paraffins, olefins, chlorinated hydrocarbons, liquefied petroleum and chemical gases, plasticizers, ethers, esters, amines, monomers, additives, ketones, glycols, alcohols, synthetic fats and oils, fertilizers and many specialty chemicals.

Our laboratories feature highly skilled personnel competent in a full array of analytical techniques and equipment. Equipment includes gas chromatograph (GC), gas chromatograph/mass spectrophotometer (GCMS), atomic absorption spectrophotometer (AAS), inductively coupled plasma (ICP), Fourier transform infrared spectrophotometer (FTIR), X-ray fluorescence (XRF), ion chromatograph (IC), ultraviolet/visible spectrophotometer (UV/Vis), microcoulometer, chemiluminescence and a variety of autotitators. Saybolt laboratory services have proven valuable to customers for custody transfer, quality assurance, assistance in prevention and solution of costly quality problems and for handling work overloads from other laboratories.

In addition to the analytical services, a team of dedicated account managers with specialized insight into specific customers' needs and requirements provides around the clock assistance.

Like all other Saybolt Divisions, the Chemical Division also operates in accordance with the strictest international guidelines, including those issued by ASTM, CCIA, ISO, DIN, BS and UOP. All Saybolt activities are subject to the Saybolt Quality Assurance System, meeting national and international quality standards (ISO 9002).
A natural diversification of the Saybolt services, the Agri-Dry Cargo and PSI Division offers a full range of inspection and analytical services covering the handling, shipment and storage of agricultural commodities and products, including edible oils, oil seeds, grains, animal feed, sugar, coffee, minerals, ores and fertilisers.

Agri-Dry Cargo and PSI Division

The Agri-Dry Cargo Division plays an important role in the monitoring of humanitarian (emergency) relief operations and food aid programmes. Its capabilities include quality and quantity verification of food parcels, shelter material (tents), hygienic and sanitary parcels.

Pre-Shipment Inspections (PSI) assists governments in monitoring and controlling the import of goods and contribute towards preserving the revenues these goods should produce. The backbone of the PSI system is the verification of goods (before shipment) against specifications and invoices. PSI arrangements can prevent over-billing that could drain foreign currency reserves as well as under-billing that would reduce the level of import duties for a government.

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Analytical Services Division

Complying with the highest quality and testing standards and using state of the art instrumentation and equipment, the Analytical Services Division offers a wide range of analytical services. The scope of activities includes analyses of chemicals, petrochemicals, oil and petroleum products, and fuels. The Division can operate and manage third party industrial laboratories.

The Analytical Services Division supports the regular inspection activities of other Saybolt Divisions. It offers and coordinates analyses for agricultural commodities, foodstuffs and humanitarian emergency relief goods.

Additionally, the ASD through submitted laboratory analysis provides a broad range of analytical support to the US refining industry in support of their efforts to meet Federal Clean Air regulations. Extensive characterization of refinery streams such as sulphur speciation during test runs enables refiners to design and optimise production for the future.
Metrology and Instruments

Complete turn-key laboratories from concept to completion

Many Engineering projects include laboratories that are a relatively minor part of the overall project. Keeping up to date with current trends in regulations, equipment and analytical techniques is a costly and time-consuming process for the engineering company. Saybolt can relieve the project team of the burden of the laboratory portion of the project, whilst at the same time constantly consulting with the engineering company to ensure that the client’s total requirements are efficiently met.

Extensive know-how

Saybolt Metrology & Instrumentation has been active for many years in the design development, supply and installation of turn-key laboratories, tailor-made to client’s sampling and analytical needs. We are also technically competent partners for the upgrading of existing laboratories. Support for setting up QC/QA programs, consultancy, design engineering, instrument selection and supply are all aspects of our aim to provide the best possible upgrade services. We maintain an up-to-date database on a wide range of analytical and process techniques for a number of industries and stay familiar with the latest developments in instrumentation. Shipping, installation, staff training and full after-sales support are an integral part of this full service approach. Saybolt professionals can save you time, money and organizational problems in any location around the world.

World coverage

Saybolt Metrology & Instrumentation is based in Rotterdam, and for projects, draws on commercial, technical and local support from the extensive network of Saybolt laboratories and support locations around the world.
Major international donors, governmental agencies and international organisations increasingly demand higher levels of transparency and accountability for humanitarian assistance and relief programmes.

Special Projects

Independent inspection, monitoring and verification are important instruments to increase the desired transparency and accountability of these programmes. It allows a better insight in efficiency and legitimacy of an operation. Through a tailor-made verification system, irregularities concerning, for example, quality and quantity are brought to the surface, duly noted and subsequently reported. Possible suggestions for correction or improvement can be supplied, allowing governments or international organisations to swiftly take the appropriate action. Independent inspection and monitoring contributes to deterring intentional violations of quality and quantity specifications. Such programmes promote the provision of the highest quality of service from suppliers and shippers.

The European Institutions and all other major international organisations (intergovernmental as well as non-governmental) and their specialised agencies and programmes have relied on the Saybolt services on a regular basis. From 1996 onwards, Saybolt monitors have been tasked with the verification of the Iraq “Oil for Food Programme” for the UN Security Council. Regarding the European Union, the emphasis is on monitoring and verification services for the assistance programmes in Eastern Europe and the Balkans. Special projects management at Saybolt is about discovering new horizons. Custom-made solutions can be developed and offered to government agencies, international and non-governmental organisations in need of special independent inspection, verification and monitoring services. There is no limit to the nature of the required services.
Training and Manpower Services
Calibration
E-Monitoring
Euro Monitoring Group

Services
Training and Manpower Services

For all its activities, Saybolt provides training programmes and offers seconded specialists for temporary professional assignments to corporations, governmental institutions, non-governmental organisations and international organisations.

Calibration

For more than 100 years Saybolt has applied precision calibration methods to assure accuracy of product transactions. Over 100,000 tanks, trucks, barges and ships have been calibrated worldwide by Saybolt. During the same number of years also Kalibra has been performing calibration of tanks, next to calibrations of various other measuring instruments. Kalibra is the leading calibration company in the Netherlands and Belgium.

In 2001 Saybolt and Kalibra joined forces. This joint venture provides the industries with even more cutting edge technology in the field of calibration and other measuring techniques world-wide. Saybolt-Kalibra is able to cover service for the widest possible range of measuring techniques and instruments. It offers calibrations of measuring systems, measurements, training and full maintenance packages. Through many years of experience and know-how Saybolt-Kalibra is able to give proper advice and technical assistance to establish an appropriate measuring infrastructure. All calibration activities are under international accreditations.

E-monitoring

Using the latest communications technology, Saybolt offers an e-monitoring system. Through an online database, the customer will have real-time insight in the progress of a monitoring or inspection assignment. Reporting time is substantially reduced, allowing for swift action in case of need.

Euro Monitoring Group

Saybolt actively participates in various consortia worldwide by contributing expertise on a case-by-case basis. Assignments include major projects in monitoring Food Aid and other Humanitarian Aid programmes for the European Union and the United Nations and its specialised organisations and programmes.
**Core Laboratories Technologies**

**Production Enhancement**

To enhance production, reservoirs are commonly hydraulically fractured to improve flow, and flooded with water, carbon dioxide, or hydrocarbon gases to force more oil and gas to the wellbore. Through its Production Enhancement business unit Core Laboratories provides patented and proprietary completions diagnostics technology to enhance hydraulic fracturing. And the success of a flood can be bolstered by using our proprietary field-flood tracer technology which enables the movement of the flooding agent to be tracked, thereby helping to eliminate any costly remediation.

Production can also be enhanced by controlling formation damage, which is recognized as the leading cause of under-performing wells worldwide. Core Laboratories provides well-completion perforating gun systems that are specifically designed to minimize formation damage while maximizing the communication, or transmissibility, between the producing formation and the wellbore.

Additionally, Core Laboratories provides a broad range of testing services for drilling cementing, completion and stimulation design, additive evaluation, petrology and reservoir analysis.

**Reservoir Management**

Maximizing production from existing reservoirs is critically important for any company exploring for and producing hydrocarbons. Through its Reservoir Management business unit Core Laboratories offers seismic acquisition, processing, and imaging methods that can delineate the size, shape, and thickness of a reservoir, and can monitor flood fronts as they pass through the producing formations.

While accurate data generation is important, understanding how to use these data is critical. Core Laboratories is expert at generating, compiling, and interpreting reservoir data. Through regional geological and petrophysical studies that integrate detailed seismic, geological, petrophysical, and well production information, Core Laboratories can provide a multi-disciplinary approach to complete reservoir characterization.

To enable oil and gas companies to "see" how their reservoirs are performing, Core Laboratories makes continuous real-time measurements of reservoir temperature, pressure, and flow. These measurements are critical to the successful implementation of any reservoir management, production enhancement, or enhanced oil recovery (EOR) project.

And to help our customers manage their producing fields optimally, Core offers integrated teams of engineers, geophysicists, and geologists to apply our unparalleled knowledge of reservoir systems and our proprietary completion and production enhancement techniques to reservoir management projects worldwide.
Reservoir Description

Core Laboratories’ Reservoir Description technologies measure rock properties and the ways that reservoir fluids behave when a reservoir is being produced. Samples of reservoir rocks are analyzed for their porosity to determine reservoir storage capacity, and for their permeability to define the ability of the rock to permit fluid flow. These basic measurements are then combined with advanced rock properties analysis to provide detailed input for electric log calibration, saturation distribution, and fluid flow parameters. Analysis of formation damage is also performed to provide detailed solutions to wellbore and production impairment problems and support investigation of stimulation and treatment effects.

The ability of Core Laboratories to combine all aspects of reservoir characterization allows us to develop critical input for the development of reservoir simulation models that are central to the appraisal and development of any hydrocarbon accumulation. Core’s fundamental and basic measurements provide the foundation for determining how much oil and gas are present in a reservoir and the rates at which the hydrocarbons can be produced. The more completely the properties of oilfields’ reservoir systems are understood, the more oil and gas these fields will ultimately produce.
Coordination Of Activities

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