SGS OIL, GAS & CHEMICALS SERVICES
SGS is the world’s leading inspection, verification, testing and certification company. SGS is recognized as the global benchmark for quality and integrity. With more than 80,000 employees, SGS operates a network of over 1,650 offices and laboratories around the world.

SGS-CSTC Standards Technical Services Co. Ltd. was founded in 1991 as a joint venture between SGS Group and China Standard Technology Development Corp., under the State Administration of Quality Technical Supervision. With an extensive network of more than 50 branches and 100 laboratories we have more than 13,000 professionals working for us.

In China, SGS’ capability covers the supply chains of various industries such as industrial & construction, automotive, minerals, petrochemicals, agricultural & food products, textiles & garments, electrical & electronics, houseware & sundries, toys & children’s products, life sciences, cosmetics, personal care & household, medical devices. SGS constantly realize innovation based on the advanced global technology and localized service concept. With best-in-class testing, inspection and certification services, we deliver trust among local and overseas corporations, governments and public organizations, and assist them to speed up business success and strengthen sustainable competence.

SGS OIL, GAS & CHEMICALS SERVICES

We provide expert and impartial testing service to every segment of the supply chains of petroleum and petrochemical industry such as upstream exploration enterprises, scientific research institutions, manufacturers, warehousing companies, agents, ship owners and traders for quality optimization, compliance assurance, safety and trade risks reduction, and the profit maximization etc.

In China, SGS OIL, GAS & CHEMICALS Services has been developing for over 20 years, and so far has set up dozens of offices in 25 regions and operated around 35 well-equipped professional laboratories with above 700 employees. For the unrivalled technical expertise and global network, SGS OIL, GAS & CHEMICALS Services will always be the trustworthy partner for our clients.

OIL, GAS & CHEMICALS TESTING SERVICES

**SERVICE OBJECT**
- Crude Oil
- Refined Oil
- Chemicals
- Gas
- Biofuel

**OIL, GAS & CHEMICALS TESTING SERVICES**

**UPSTREAM**

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**MIDSTREAM & DOWNSTREAM**

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| Laboratory Installation and Operation | Manufacturer
| Road Safety Management | Warehousing Company
| Maritime Service | Agent
| Marine Service | Ship Owner
| Safety and Loss Control Audit | Trader
| Customized Training | |

**SGS OIL, GAS & CHEMICALS SERVICES Network**
SGS could provide you with analysis and testing support for unconventional resources exploration and development, to help you obtain parameters of the unconventional resource evaluation, reservoir comprehensive evaluation and engineering development condition evaluation, which is the scientific basis and important guarantee for unconventional resources exploration.

We have proven quality control system, operate in strict accordance with ISO/IEC17025 standards, manage laboratories with first-class SLIM system, and perform all relevant domestic and foreign testing standards including GB, ISO, ASTM, JIS, EN, etc.
CARGO INSPECTION

Aiming to control loss and ensure cargo quality for our clients, SGS implements effective monitoring during cargo transportation and delivers professional inspection and testing service in trade according to all international or industrial standards such as international conventions, ISO, EN, API, etc.

KEY SERVICES
- Cargo Quantity Inspection
- Sampling & Sample Preservation
- Analytical Testing
- Ship & Shore Tank Cleanliness Inspection
- Loss Evaluation
- Month-end Inventory
- Technical Consultancy
- Blending and Additives Services
- Other Customized Requirements

SHIP & SHORE TANK CALIBRATION SERVICES

Precise measurement of cargo quantity is essential to global petroleum and petrochemical product trade. SGS Tank Calibration Services is committed to help clients ensure the accuracy of metering containers and avoid the loss in storage systems. With our expert personnel and advanced calibration techniques, SGS will be the ideal partner to secure the transaction, maintain client confidence and optimize the profitability.

KEY SERVICES
- Calibrating Shore Tank for Conformity with API/ASTM/IP/GB Standards
  - Vertical Metal Tank
  - Horizontal Metal Tank
  - Spherical Metal Tank
  - Rigid Prismatic Storage Tank
  - Membrane Tank
  - Horizontal Cylindrical Tank
- Calibrating Ship Tank with 3D Laser Technology
  - LNG & LPG Carrier
  - Large-scale Oil Tanker
  - Petroleum Chemicals Vessel
- Other Customized Requirements
LAB TESTING

SGS's large international network of laboratories is the best in its class. We offer a wide range of Laboratory Testing Services that covers all aspects of petroleum and petrochemicals industry, from crude oil to various refined oil, from raw chemicals to derivatives such as fine chemicals, chemical gases, etc. SGS provides testing services according to all relevant international and domestic standards such as GB, ASTM, IP, ISO, UOP, JIS, EN, etc. With an in-depth knowledge of the fields, we analyze and develop new testing method for our clients to meet the particular requirements. For its expertise and global high reputation, SGS testing reports are widely used for sample analysis, custody transfer, onsite production monitoring, scientific research, lawsuit, insurance claim, etc.

Companies worldwide are experiencing the benefits of our scientific capabilities. With an investment more than 50 million Yuan, SGS established Shanghai Oil Testing Laboratory in 2004, which has the usable area over 2,000 square meters and is armed with dozens of expert staffs.

KEY SERVICES

-**OIL TESTING**
  SGS Lab Testing Services has full capability for testing of various oil products. Every year we tested tens of thousands of oil samples. SGS also provide blending and additives services of cargo treatment to oil traders and refineries. Our services add value to our clients by improving the quality of critical parameters.
  - Crude Oil
  - Light & Middle Distillates
  - Fuel Oil

-**CHEMICALS**
  - Conventional Products: Alcohols, Ketone, Acid, Alkene, Cyclic Hydrocarbon, Arenal, Monomer, Others
  - Main Testing Items: Physical Property, Chemical Property, Component Analysis, Element Content

-**FUEL TESTING & OIL MONITORING**
  SGS has been providing Fuel Testing and Oil Monitoring Services to most of the automobile manufacturers and industrial companies for many years. Accurate testing result and quick service enable our clients to obtain first hand information on the quality of fuel distributed in the market and assist them to find out the failure cause of fuel systems, therefore contribute to their engine research and development. Our Oil Monitoring Services helps our clients plan efficient maintenance ahead of time so as to avoid costly breakdowns.
  - Gasoline
  - Lube Oil
  - Diesel
  - Jet Fuel

-**GAS**
  - LPG
  - LNG
  - Refrigerant
  - Isoprene

-**CLEAN ENERGY**
  SGS Oil, Gas & Chemicals Services can perform the testing of various kinds of new energy products according to all relevant standards such as EN, USA, ISO, and GB standards.
  - Biodiesel
  - Fuel Ethanol
  - Methanol Gasoline

LABORATORY QUALITY SYSTEM
SGS fuel oil survey services provide specialist fuel oil market investigation report for automobile manufacturers and component suppliers worldwide, and help them make technology plan and develop prospectively in strategic level. We perform the quality of fuel tracking survey in environmental protection, emission control, development verification, after-sale services etc., and provide professional oil testing and technical consulting services for companies in R&D and for government in making regulations and industrial policies.

**FUEL OIL SURVEY SERVICES**

**KEY SERVICES**
- China Joint Venture Survey Project
  Take investigation for fuel oil covering over 40 cities in summer and winter annually, taking samples of petrol 220 and gasoline 110 for each season.
- World Wide Fuel Survey
  Take investigation for fuel oil covering more than 40 countries including China all over the world in summer and winter annually, taking samples 1400 each season.
- Customized Fuel Survey
  Take customized investigation for government, automobile companies, petrochemical companies and research institutes in need of production and development.

**OIL MONITORING**

Oil monitoring is a powerful weapon in the equipments maintenance. By closely monitoring changes in the concentration of metals and other contaminants collected by the oil, condition monitoring can provide an early warning of the many potential problems. Analyzing lubricating oil, greases and hydraulic fluids gives a fast and accurate picture of what is happening inside a machine (e.g. engines, gearboxes, compressors, hydraulic systems and other critical machines) and yields vital information on the oil itself. Now, Oil Monitoring has become an important way for enterprises to improve their management of equipment lubrication and control the cost.

**LUBE OIL PRODUCTS**
- Engine Oil
- Gear Oil
- Hydraulic Oil
- Compressor Oil
- Turbine Oil
- Transformer Oil, etc.

**KEY SERVICES**
- Lab Analysis
  SGS advanced Oil Testing Services can perform the lube oil testing rapidly and exactly.
- Evaluation
  Periodically monitoring the used lube oil and evaluating the status of equipment, offering reasonable advice about the cycle of changing oil and lubricating solution.

**Fuel and Lube Oil Monitoring**
- Provide technical support for automobile companies through fuel and lube oil monitoring regularly in development and production.

**After-sales Tracking Services**
- Help client find and exclude the influence of oil product through fuel and lube oil analysis of faulty vehicles and equipments, and provide scientific basic for accurate diagnosis and solution.

**Supplied Oil Quality Monitoring**
- Provide oil quality evaluation services for automobile companies and oil suppliers, ensuring oil quality is according to related standards and regulations.
BLENDING AND ADDITIVES SERVICES

We supply specialist Blending and Additives Services to oil traders and manufacturers around the world to correct deficiencies that affect cargo handling, safety and contractual obligations. Understanding a wide portfolio of additives, we can select the most appropriate treatment for you and carry out blending and adding additives onsite.

KEY SERVICES OF BLENDING
- On-board Drumming
- Direct Line Injection
- In-tank Blending

KEY SERVICES OF ADDITIVES
- CFPP Improvers
- Solidification Point Improvers
- Pour Point Improvers
- Lubricity Improvers
- Cetane Improvers
- Stability Improvers
- H₂S Scavengers
- Dyes
- Biocides

SAMPLE MANAGEMENT SERVICES

With worldwide professional warehouses for dangerous goods and non-dangerous goods, SGS sample management services could help you send and receive small goods and samples easily. Our comprehensive warehouse management and specialist sample distribution services ensure your samples are well packaging, sealing, labeling and transporting according to related standards and regulations. We could help you reduce transportation costs and time.

KEY SERVICES
- Goods & Samples Warehousing and Operating
- Inventory and Backlog Management
- Sub-packaging and Filing
- Sampling under Heating and Nitrogen-sealed Condition
- Packaging and Labeling
- Documentation and Certification of Transportation
- Cooperating with Qualified Carriers
- Tracking Transportation and Delivery

- Onsite Sampling and Sample Collecting
- Safety Consulting for Dangerous Goods
- Laboratory Testing
- Overtime Small Goods & Samples & Waste Materials Disposal
- Emergency Response
- Consulting and Training for Dangerous Goods
- Goods Transportation operators
LABORATORY DESIGN & OPERATION SERVICES

SGS supplies you with comprehensive oil field laboratory services to suit your needs of laboratory design, laboratory commission and operation. Our integrated technical consulting services ensure laboratory operation is correct in accordance with project requirements. We have laboratory project experience in many fields such as oil or nature gas FPSO, fixed platform, and nature gas plant on land, LNG manufacture, oil processing and refining. Our senior experts have a great deal of experience in laboratory apparatus selecting, testing method development and verification, document management, laboratory operation, maintenance management, report audit and quality guarantee.

KEY SERVICES

- **Requirement Analysis & Laboratory Design**
  Provide you with the best solution after clarifying requirements including sampling and analyzing, laboratory design, layout, workflow, equipments and specification. Cooperate with contractors to ensure the suitability of building design and services (including pipeline, electric and ventilation).

- **Third-party Laboratory Management and Operation**
  Concern about data quality, efficiency, costs saving, laboratory analysis & certification, training, proficiency test, environment monitoring, onsite customized training, sampling, testing, internal exchange plan, temporary and permanent staffing, onsite laboratory expert and so on.

- **Equipment**
  Provide specify equipments and testing methods for production, transportation monitoring and environment analysis, and purchase equipments and reagents at a competitive price.

- **Operating**
  Supply you with complete lab operating management services including manning, monitoring and managing, ensuring manning and training are according to requirements of sampling and analyzing.

- **Quality**
  Have a great deal of experience in operating laboratory facilities certificated by ISO, covering QA (responsibility, training, procurement, maintenance etc., and QC report standard, method, program etc.).

- **Procurement and Commission Services**
  With a wide network and extensive experience, give you the most effective method to purchase equipments, consumables and reagents, and deliver in time. Manage project design and laboratory facilities construction including installing lab furniture and equipments, lab modules certificated by offshore danger area, facilities not certificated by ashore modules and routine ashore laboratory.

- **Health and Safety**
  Supply you with detailed HSE plan, staff health monitoring plan, identified substance monitoring plan, HazOp meeting, and health & safety joint committee meeting and checking.
ROAD SAFETY SERVICES

SGS road safety services provide the complete road safety instruction and on-road real time ranger monitor services for the logistic suppliers, based on the understanding of the international and local laws, rules, standards and experience about hazardous chemical cargo transportation. Through road ranger and relative safety consulting, we can help you manage the on-road safety risk efficiently and achieve the greatest benefits in the end.

We equipped with good knowledge on road safety transportation and are well knowing the criteria for road surveillance of China, have registered trainers about road safety training and China road safety assessor, offer you general road safety training and road safety management system assessment.

KEY SERVICES

- Dynamic Vehicle Inspection
- Static Vehicle Inspection
- Speed Check
- Alcohol Checking on Drivers
- GPS Full Process Monitoring
- VDR Statistic Collection & Evaluation
- Image System Real-time Monitoring
- Inspection of the New & Temporary Vehicle’s Safety
- Internal Safety Management Audit on Haulers
- Annual Vehicle Inspection
- Road/Site Safety Assessment and Suggestion
- Accident or Incident Integrative Assessment
- Road Transportation Safety Training
- Road Safety Alarm on Real Time
- Emergency Response
- Logistics System Management
- GPS Terminal System Management
- Accuracy of Delivering Time Checking Proportionally
- Cargo Integrity Monitoring for Controlled Vehicle during Transportation
- Co-loading Work Flow Checking on Haulers
- Vehicle’s Overloading Examination
- Defensive Driving Skill Training

MARINE SAFETY SERVICES

To help our clients realize and control the conditions of ships, cargo process, containers safety, and reduce risk, SGS provides full technology & safety evaluation of ships, jetties, warehousing, and shore tanks for conformity with all relevant regulations such as international conventions, domestic marine transportation rules, standards, and storage requirement of dangerous chemicals.

KEY SERVICES

- Supervising Loading and Discharging of Liquid & Solid Chemicals Ship
- Ship’s Condition Surveys
- Jetty and Terminal T&S Audit
- Tank Farm Audit and T&S Assessment
- Warehouse Suitability Inspection
CONSULTING AND TRAINING SERVICES

SGS provides third-party certification for suppliers’ products in accordance with convention requirements through visual, sampling checking, chemical inspection and supply chain audit, help suppliers complete MD and SDoC document preparation and provides training & consulting services of technology and regulations for suppliers, ship manufacturers, ship owners, ship-breaking manufacture and so on.

GREEN MARINE INSPECTION

Provide green ship menu inspection services according to related international and local regulations, including a series of inspection services such as non-asbestos inspection, hazardous substance management, ship efficiency management certification, antifouling paint, ship exhaust emission, vibration and noise, ballast water etc.

OPERATING SHIP INSPECTION

Provide you with operating ship supporting inspection services, including ship tank calibration and measurement, instrument calibration, fuel oil and lube oil inspection and other specified inspection items.

PRODUCTION & REFORM & OVERHAUL

Provide inspection services for ship trial, classified reform and overhaul, including ship materials inspection, ship tank calibration and measurement, non destructive testing, FMEA, wireless and navigation equipment testing, noise vibration measurement, speed check, steering, inertia, scaram, turning test, Z-style operation test, GPS function test, DP location, drag test, pressure container inspection and so on.

FINANCIAL INSPECTION

Provide customized inspection services including ship condition survey, oil residuals inspection, instrument calibration and other specified inspection items.

SAFETY AUDIT & LOSS VERIFICATION

SGS safety audit and loss identification services help you improve staff and product safety, reduce hidden risk in work flow, know more details about onsite operation, supervise staff operation process and keep their eyes, improve HSE management system and staff safety awareness, and assess professionally whether transportation or storage tool meet project requirements in neutral point.

KEY SERVICES

- Chemical (Liquid/Solid) Ship’s Loading/Discharging Supervision
- Jetty and Berth Technology and Safety Audit
- Tank Farm Audit and Assessment
- Ship Condition Survey
- Warehouse Suitability Inspection
- Emergence Response
- Road Ranger

SHIP VETTING SERVICES

SGS provides ship vetting services for ship related materials and equipments suppliers, ship manufacturers, ship owners, shipping companies and financial institutions in areas of new ship classification, ship reform and overhaul, second-hand ship business, ship maintenance and so on. With strong laboratory platform and professional ship inspection technology, we provide one-stop green ship services and specialist ship inspection and technical consulting services for ship related companies in research and development, manufacture, operation, shipping and cargo loading.

WHY SGS?

- World’s leading testing and certification company, 100-year-old and trustworthy
- Global network meeting your demands from domestic to abroad
- Specialized technical team ensuring the quality and conformity of your product
- Accurate data secured by complete facilities and strict laboratory management systems
- Providing you advanced suggestions with expertise
- Offering 24hour, 7days continuous and expedited services

CONTACT US

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