



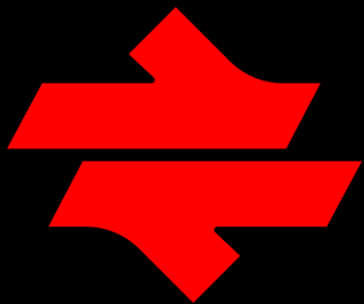
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Industrial Lubrication Portfolio





Pioneering Industrial Lubrication
Solutions with Advanced Technology
for the Defence Sector



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Corporate Introduction

Empowering Your Defence & Security Solutions

South2South proudly presents its strategic alliance with Lubricación de Clase Mundial, a renowned Colombian company, to introduce world-class industrial lubrication services, analysis, and products to the United Arab Emirates, with a specific focus on serving the defence sector. Drawing upon our partner's extensive expertise, we're here to ensure that your equipment consistently operates at peak performance, optimising efficiency and extending the lifespan of critical assets.

Explore our tailored solutions to enhance sustainability, ensure regulatory compliance, and address your unique operational requirements



OUR SERVICES

We offer services that encompass every stage of your assets' lifecycle, ensuring sustainability and peak performance throughout the entire cycle.



Industrial Lubrication Diagnosis



Industrial Lubrication Charts



Industrial Oil and Grease Laboratory Analysis



Oil Recovery Services



Industrial Lubrication Room Design

1. Industrial Lubrication Diagnosis

We conduct a comprehensive evaluation of machinery lubrication, focusing on the effectiveness of practices, thermography, vibration programmes, and energy consumption due to friction. The goal is to identify areas of strength and areas for improvement, ensuring that the entity's lubrication and monitoring protocols align with the highest global standards.

Our diagnosis comprises of six evaluations, each giving a score based on different criteria:

- | | |
|------------------|--------------------|
| 1. Effectiveness | 4. Proactivity |
| 2. Prevention | 5. Sustainability |
| 3. Prediction | 6. Expert Training |

Scope

- **Equipment and Lubrication Processes Audit**
- **Analysis:** Examination of the condition of oils and industrial greases used in the equipment.
- **Technical Report:** We provide a comprehensive technical report that highlights identified strengths, areas for improvement, and actionable recommendations.



Benefits:

- **Company Assessment:** Gain insights into the entity's competence in preventive and predictive industrial lubrication and identify areas for improvement.
- **Industrial Lubrication Program Enhancement:** Evaluate and enhance the current lubrication programme being implemented.
- **Personnel Engagement and Training:** Engage and train your personnel in advanced industrial lubrication programmes, improving their skillset and knowledge.
- **Cost Reduction:** Reduce costs related to equipment efficiency, maintenance, and lubrication.
- **Sustainability:** Foster a more sustainable industry through energy-saving programmes and the rational use of industrial lubricants, helping the defence and security sector operate efficiently while minimising its environmental footprint.



2. Industrial Lubrication Charts

Our Industrial Lubrication Charts service offers a comprehensive review and optimisation of your lubrication practices. Our objective is to meticulously assess and update the methods, frequencies, tasks, and lubricants used in all plant mechanisms, ensuring that they align with the highest standards in the industry.



Scope:

- **On-Site Evaluation:** We begin with a thorough site visit to the plant or location where the equipment under review is stored.
- **Photographic Documentation:** We capture photographic documentation of all lubricated equipment to create a visual reference.
- **Equipment Analysis:** A detailed analysis of all equipment is conducted, including an examination of your mechanisms and the current state of lubrication systems.
- **Lubrication Charts Creation:** We develop lubrication charts that provide standardised information for all equipment and mechanisms used by your organisation.
- **Multi-Format Delivery:** Our service includes the delivery of lubrication charts in both physical form and through an online software platform and mobile app.

Benefits:

- **Standardisation and Consistency:** Achieve standardisation and consistency in lubrication methods and materials across your entire plant, promoting efficiency and reliability.
- **Enhanced Equipment Performance:** By ensuring that proper lubrication processes are followed, our service enhances the performance and longevity of your equipment.
- **Record-Keeping and Maintenance Tracking:** Easy record-keeping and tracking of maintenance activities, making it simpler to monitor the health of your equipment.
- **Simplified Training:** Simplify the training and onboarding of personnel in lubrication practices. These visual aids make it easier for your team to understand and follow best practices.
- **Accessibility:** Our multi-format delivery ensures that lubrication information is readily accessible to your team. Whether in physical or digital formats, information is at your fingertips for ease of reference and use.



3. Industrial Oil and Grease Laboratory Analysis

Our Industrial Oil and Grease Laboratory Analysis service provides essential insights into the physical and chemical properties of the oils and greases used in your organisation's equipment. This comprehensive analysis evaluates contamination levels, viscosity-temperature relationships, additive content, oil degradation, and the presence of fuel or coolant, while also assessing mechanical wear on lubricated metal surfaces.

Methodology:



01

Sample Kit

Initiating the analysis process is as simple as requesting a sample kit via email. This email initiates the request and ensures the availability of the kit. Specify the city for kit pickup, company name, contact details of the requesting engineer, and details of the pickup person.

02

Oil Sampling and Sample Collection

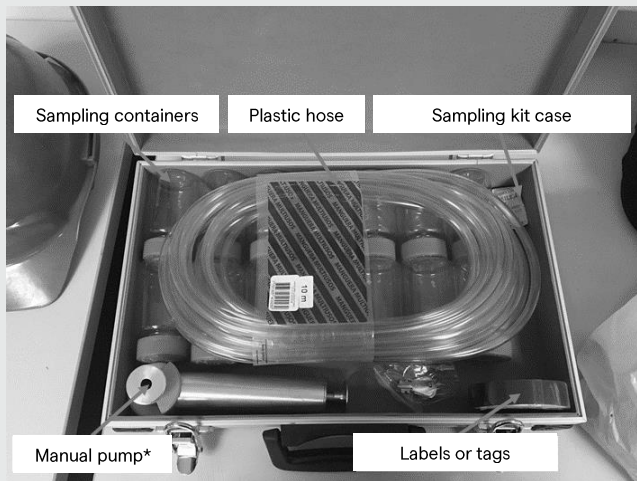
Our team will guide you through the process based on the equipment type to be sampled. Precisely label each sample using the information provided on the tags within the sample collection kit. Complete the provided form and submit it physically or digitally, including the technical data of each oil sample sent for analysis.

03

Laboratory Report

Reports are managed through our specialised software, providing a digital technical report for download in various formats. They encompass client information, equipment details, oil specifics, and historical laboratory test results. In addition, our team of experts will provide recommendations based on the results.

The sample collection kit comprises of:



*Please note that the manual pump or vampire device is not included in the kit and requires a separate quote.

Benefits of Our Laboratory Analysis:

- **Unbiased and Independent Analysis:** Receive unbiased and independent technical analysis of lubricants, ensuring that your lubrication practices are optimised and aligned with industry best practices.
- **Optimal Equipment Functioning:** Evaluate and enhance the current lubrication programme being implemented by the company.
- **Timely Maintenance:** Identify the right moments for oil changes, thus reducing maintenance costs and enhancing efficiency.
- **Wear Monitoring:** Continuously monitor wear in lubricated mechanisms to prevent critical failures.
- **Historical Data and Trend Analysis:** Access historical data and analyse trends for all oil parameters to make informed decisions.
- **Extended Equipment Lifespan:** Our service extends the lifespan and reliability of lubricated mechanisms.
- **Continuous Engineering Support:** Enjoy ongoing engineering support for lubrication-related inquiries and technical issues.

4. Industrial Lubrication Service

Our Industrial Lubrication Service is meticulously designed to ensure the smooth operation and longevity of industrial and automotive equipment within your organisation. Following a carefully planned schedule and structured work orders, we perform essential lubrication tasks, guaranteeing that machinery functions optimally and cost-effectively.



Scope: Our service includes the following deliverables:

- **Monthly & Weekly Report:** A comprehensive report detailing lubrication activities.
- **Work Order:** Structured work orders to ensure the efficient execution of lubrication tasks.
- **Lubrication Indicators:** Real-time access to updated indicators for monitoring and decision-making.
- **Lubrication Chart:** Comprehensive lubrication charts to ensure proper lubrication for all equipment.
- **Reliability Chart:** A reliability chart to ensure the dependability of your equipment.
- **Technical Data Sheet:** Detailed technical data sheets for all equipment and lubricants used, ensuring accurate application and maintenance.
- **Equipment Life History:** A history of each equipment's lifecycle, providing insights for effective maintenance.
- **Lubrication Procedure & Improvement Form:** A structured form to document step-by-step procedures, improvement suggestions and equipment failures.
- **Lubricant Safety Data Sheets:** Safety data sheets for lubricants used, promoting safe handling.

Benefits of our industrial lubrication service:

- **Analysis of Lubrication Processes:** An assessment of the state of lubrication processes and components of critical, essential, and general-purpose rotating equipment in your organisation.
- **Strengths and Weaknesses Assessment:** Evaluation in the various lubrication programmes within the LCC framework.
- **Recommendations for Optimisation:** Actionable recommendations to optimise lubrication programmes, making them effective tools for enhancing productivity.
- **Cost Reduction Collaboration:** Collaboration with your purchasing department to reduce lubricant procurement costs.
- **Environmental Impact Reduction:** Collaboration with your environmental department to minimise the volume of oil and oil-impregnated contaminants requiring disposal.



We offer a great variety of services:

Effective
Lubrication

Preventive
Lubrication

Predictive
Lubrication

Proactive
Lubrication

Environmental
Management

Expert
Training in
Lubrication

Still not sure which service is the best match for your equipment?

We're here to help. Enquire about the unique benefits of each service or request our Industrial Lubrication Diagnosis to receive personalised recommendations.

6. Oil Recovery Services



Our Oil Recovery Services offer a range of specialised processes designed to restore the quality and integrity of lubricating oils, ensuring they meet and even exceed industry standards. These services are essential for maintaining the optimal performance of your machinery and safeguarding your equipment from wear and contamination.



Hydraulic and Chemical Flushing



Oil Dialysis



Microfiltration



Varnish Removal



1. Hydraulic and Chemical Flushing

The purpose of flushing is to eliminate contaminants and foreign agents from the lubrication system, which can lead to abrasive and erosive wear in equipment components and mechanisms, or in more critical cases, equipment downtime.

Scope:

- **Photographic Documentation:** Comprehensive photographic documentation of the mechanisms and components in the equipment before and after the hydraulic-chemical flushing process.
- Assessment of oil recovery feasibility through the flushing process.
- Cleaning of the lubrication system using the flow of chemical substances under appropriate conditions according to the equipment type.
- Provision of a report with a description of the process, contaminants or agents found in the lubrication system, and results with photographic evidence.



Benefits of Our Flushing Service:

- Removal of contaminants in the lubrication system.
- Ensuring ISO 4406/99 oil cleanliness in the equipment.
- Elimination of moisture, water, and varnishes present in the oil.
- Installation of new oil and air filters.
- Increased equipment reliability.
- Extension of oil service life.
- Reduction of erosive and abrasive wear in lubricated equipment mechanisms.
- Reduction of maintenance costs.



2. Oil Dialysis

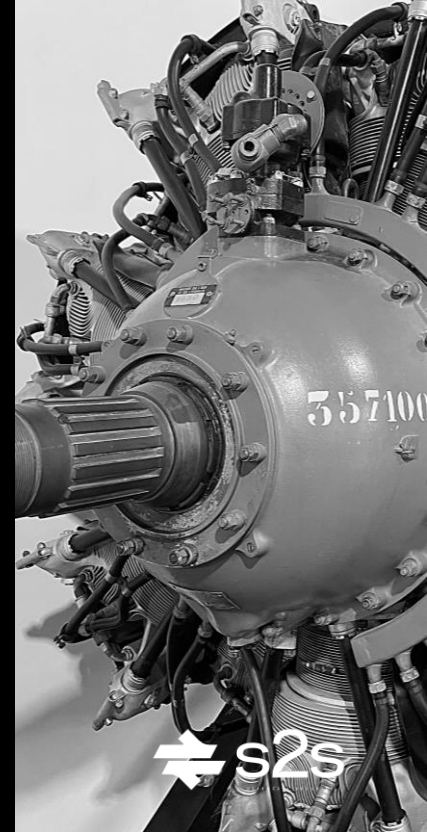
Using the state-of-the-art ILM1B30BV1C2F3-110 Oil Dialyser, a highly mobile two-axle unit, we ensure that your oil remains in peak condition, adhering to the strictest cleanliness standards while significantly extending its useful life.

Scope:

- **Thermovacuum Technology:** The Oil Dialyser employs a thermovacuum process, which involves heating the oil under a vacuum. This method effectively removes unwanted gases, water, and solid particles from the oil.
- **ISO 4406-99 Compliance:** Our service guarantees that your oil meets or exceeds the ISO 4406-99 cleanliness code, ensuring that it remains within the required standards.
- **Continuous Operation:** The Oil Dialyser operates continuously, pumping oil from the reservoir, processing it, and discharging it seamlessly. This ensures that the entire oil volume in the equipment's crankcase meets the cleanliness standards.
- **Stainless Steel Construction:** The Oil Dialyser is constructed entirely from durable and corrosion-resistant 304 stainless steel, making it suitable for a wide range of industrial applications.
- **Variable Processing Time:** The processing time may vary depending on the initial condition of the oil.

Benefits of Our Oil Dialysis:

- **Enhanced Equipment Performance:** By consistently maintaining oil cleanliness within ISO standards, the Oil Dialysis process maximises the performance of your machinery, reducing friction and wear.
- **Extended Oil Life:** Oil Dialysis significantly extends the lifespan of your lubricating oil, helping you get more value out of your oil investment.
- **Cost Savings:** Prolonging the life of your oil and reducing the frequency of oil changes translates into substantial cost savings in oil purchases and disposal.
- **Environmental Responsibility:** By using Oil Dialysis to rejuvenate and reuse oil, you minimise the environmental impact associated with the disposal of used oils.





3. Microfiltration

Our Microfiltration Service is designed to rejuvenate and maintain the quality of lubricating oils in industrial machinery. Leveraging advanced microfiltration technology, we provide a highly effective process for cleaning and enhancing the performance of your lubricating oils.

Scope:

- **Advanced Microfiltration:** Our sophisticated microfiltration process involves passing the oil through specialised filtration media to remove even the finest particles and contaminants. This process ensures that the oil is brought back to a state that meets or exceeds industry cleanliness standards.
- **High-Temperature Treatment:** The oil is heated to temperatures up to 60°C, which helps to break down and eliminate impurities in the oil, resulting in a cleaner and more efficient lubricant.

Benefits of Our Microfiltration Service:

- **Consistent Cleanliness:** Maintain ISO 4406/99 cleanliness standards for consistent superior lubrication.
- **Contaminant Removal:** Effectively eliminate solid contaminants and dissolved impurities.
- **Extended Oil Life:** The service significantly extends the life of the lubricant, offering cost savings.
- **Reduced Wear and Tear:** Cleaner oil reduces friction, leading to less machinery wear and enhanced equipment reliability.
- **Environmental Responsibility:** Minimise environmental impact by reducing the volume of disposed oil.



4. Varnish Removal

Our Varnish Removal Service, featuring innovative Electrophysical Separation Process™ (ESP) technology, excels at removing varnishes and contaminants from lubrication systems, ensuring the long-term efficiency and longevity of critical machinery.

Scope:

- **Electrophysical Separation:** Our process employs patented ESP technology to efficiently separate varnishes and contaminants.
- **Phosphate Ester Contaminant Removal:** Efficiently removes degradation products from phosphate ester fluids, such as acids, gels, and varnishes.

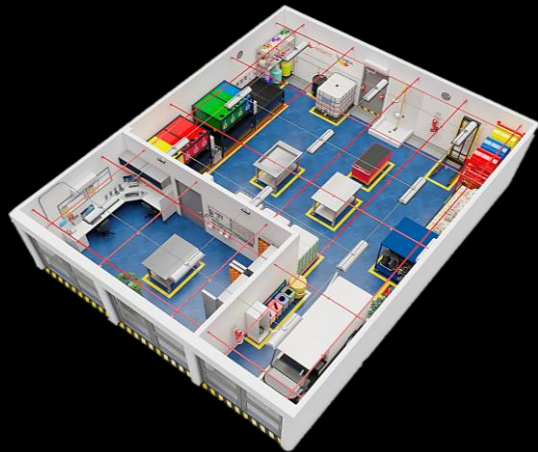


Benefits of Our Varnish Removal:

- **Improved System Cleanliness:** Enhanced system cleanliness reduces the risk of system clogs and wear on critical components.
- **Cost Savings:** Expect substantial cost savings through fewer oil changes, reduced wear, and lower maintenance costs.
- **Extended Oil Life:** Cleaner oil extends lubricant life, reducing the frequency of oil changes and related expenses.
- **Environmental Responsibility:** Reduce the volume of disposed oil for a sustainable and environmentally responsible approach to maintenance.

7. Industrial Lubrication Room Design

We design and manufacture state-of-the-art lubrication and tribology rooms that adhere to the highest standards of quality, environmental safety, and occupational health. Our service is a comprehensive solution tailored to meet the specific needs of the defence sector, offering a structured, organised environment for maintenance tools, inventory management, and lubrication processes.



Scope:

- **Efficient Tool Organisation:** We begin by thoroughly assessing your maintenance tools and their needs. Our expert team designs a room layout that optimises the arrangement of tools for easy accessibility and efficient workflow.
- **Inventory Management:** We create a system that simplifies tool tracking, replenishment, and minimises the risk of stockouts or overstocking.
- **Improved Maintenance and Lubrication Processes:** Our design ensures that all maintenance and lubrication tools are readily available, facilitating quick and efficient equipment servicing and lubrication.
- **Quality Materials and Durability:** We utilise high-quality materials to construct the room, ensuring the durability of the storage and workspace.
- **Improved Safety Measures:** We include safety features and spill containment to mitigate potential hazards related to maintenance and lubrication tasks.
- **Inventory Tracking:** Every component within the room is labeled and tracked systematically. This simplifies identification and minimises the chances of losing tools.

COMPREHENSIVE MANAGEMENT PROGRAMME

Our Comprehensive Industrial Lubrication Management Programme represents the pinnacle of lubricant management, providing a complete solution for overseeing the condition of lubricants across all facets of your organisation.

Let us take charge of all your lubrication systems and manage every process with perfect timing, ensuring your equipment operates at its peak performance.



- Products Supply
- Transportation & Storage
- Lubrication Services
- Periodic Laboratory Analysis
- Oil Recovery Services
- Final Disposal of Oils & Greases

WHY CHOOSE



south2south

DEFENCE & SECURITY



Cost Efficiency: Achieve significant cost savings by extending the operational lifespan of your defence vehicles and machinery, reducing the need for frequent replacements, and ensuring streamlined industrial lubrication management.



LCM Software: Access world-class lubrication management with our software, simplifying industrial lubrication activities. Efficiently manage your lubrication systems with our user-friendly platform.



Reliability-Centered Lubrication Philosophy: Maximise equipment reliability and performance, integrating various tools to provide immediate traceability of industrial lubricants and ensure qualitative and quantitative operational insights.



Sustainability and Circular Economy: Support sustainability goals and environmental responsibility by minimising the generation of hazardous waste through our industrial lubrication solutions. Embrace a circular economy by actively exploring opportunities for recycling and reusing lubricants and related materials.



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