



Superior Testing that Reaches the World

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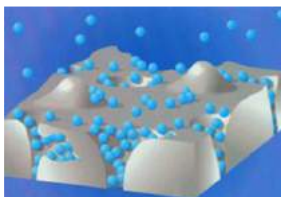


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Surface Area and Pore Size Analysis - August 2016
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Clark Testing: Over 40 Years Serving the Steel Industry

Clark not only provides services to the steel industry, we came from the steel industry!

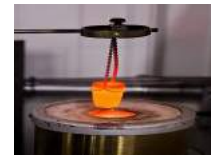
Employing about 25 professional and technical people; servicing over 800 customers. We have been supporting the steel industry since our initial organization in 1986. Our Lab, ISO Guide 17025 accredited, consists of four departments: Analytical Chemistry, Industrial Hygiene, Conditioning Monitoring Services (Reliability Maintenance), and Fuels and Lubricants. We gained our experience through the combination of laboratories from United States Steel Corporation, Gulf Oil Corporation, PennRun Corporation and the University of Pittsburgh's Applied Research Group.

Our testing capabilities include that of new/used oil, grease, and fuels; we analyze the chemical composition of steel and metal alloys, process solutions, raw materials, air (Industrial Hygiene); we perform specialty corrosion testing (NACE), failure analysis, and particle characterization testing.

[Learn More](#)

Analytical Chemistry

Our Chemistry lab is here to help you with your testing services for Product Comparison, Product Verification, or Failure Analysis.



Common Testing Parameters Include:

| | | |
|---|---|---------------------------------------|
| <i>Alloy Analysis</i> | <i>Elemental analysis</i> | <i>Silicon Carbide</i> |
| <i>Coating Analysis</i> | <i>Forms of Carbon</i> | <i>Moisture Determination</i> |
| <i>Free and Total Sulfur</i> | <i>Elemental Oxides</i> | <i>Oil Film on Sheet</i> |
| <i>Carbon, Sulfur, Oxygen, Nitrogen</i> | <i>Oxidation States of Iron, IE Forms of Iron</i> | <i>Macro Etch and Surface Print</i> |
| <i>Metal Fines and Soaps on Sheet</i> | <i>Anions - Chloride, Sulfate, Phosphate, Nitrate</i> | <i>Failure Analysis, by SEM / EDS</i> |
| <i>Surface Cleanliness on Sheet</i> | <i>Crystalline Phase Identification</i> | |

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Industrial Hygiene

Accredited by AIHA-LAP, LLC (#100355) for metals, organic solvents, silica, and diffusive samplers.



Common Testing Parameters Include:

- Metals - Various metals, including Welding Fume Profile
- Solvents - Benzene, Toluene, Xylene, Total Hydrocarbons
- Acid Fumes - Hydrochloric Acid, Nitric Acid, etc
- Sulfur Dioxide, Nitric Oxide / Nitrogen Dioxide, Fluorides
- Ozone
- Gravimetric - Total / Respirable Dust, Welding Fume Particulate
- Extractions - Oil Mist, Benzene Soluble Fraction / Coal Tar Pitch Volatiles / Coke Oven Emissions
- Hexavalent Chromium

Additionally, Clark will:

- provide all the necessary media to perform your air sampling
- assist you in selecting the proper NIOSH or OSHA method necessary to carry out your sampling
- help you determine what can be collected together on the same media
- notify you of any special handling requirements for your sample

And.....

We have skilled staff trained in providing Qualitative and Quantitative Site Assessments for chemical exposure, Noise, and heat stress!

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Monitor your hydraulic Systems to Minimize Problems - August 2016

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Stay Connected



Clark Testing's Corporate Responsibility:

Clark Testing is a family-owned, SBA-certified small business. Community defines the values of our entire operation, starting with our employees and customers, and extending out to the global community.

We see our role as essential to ensuring the safety and health of products that touch people throughout the world. From the raw materials we test in our analytical chemistry lab to ensure individual health, to the mechanical and dynamic testing we conduct to ensure the safety of workers and the public, safety and health are at the heart of what we do.

Thank you for considering us for all your testing needs,



Conditioning Monitoring

Clark Testing Condition Monitoring Services Laboratory (CMS Lab) provides oil analysis and diagnostics to enhance maintenance programs and equipment reliability.

Our CMS Lab assists maintenance professionals in the early detection of equipment problems and in predicting future machine reliability.

The CMS Lab provides lubricant fluids, and grease analyses to help maximize machinery performance, extend lubricant change intervals, and minimize lubricant-related disruptions in production schedules.

Samples of fluids are analyzed for degradation, contamination, and wear debris. The CMS Lab assists clients in knowing when and how equipment is degrading through testing equipment fluid samples. By managing the lubricants in machinery, clients lower maintenance and lubrication costs, improve maintenance scheduling, and reduce parts inventory.



[Learn More](#)

Corrosion

The primary function of the NACE Lab is testing pipe/tubulars to meet the API requirements for sour service pipe sold as oil country tubular goods (OCTG). We perform the testing that requires Hydrogen Sulfide exposure using two methods NACE TM0177 (Tensile, Bent Beam, and Double Cantilever Beam) and NACE TM0284 (Hydrogen Induced Cracking).



Our specialty NACE corrosion testing services includes environmental testing simulations, including accelerated pipeline corrosion testing for volatile applications; hydrogen induced cracking testing; corrosion inhibition; and a full range of Sulfide Stress Cracking tests.

Exposure of oil production pipe, line pipe, pressure vessel steels, fluids and valves to water and hydrogen sulfide requires qualification of the performance of material. Corrosion will compromise component and systems integrity which will lead to damage and possibly failure.

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Fuels & Lubricants

Our lubrication lab offers specialized testing to various specifications to assist clients in meeting requirements of lubrication and fuel certifications. Specification include, ASTM D975-13 Standard Specification for Diesel Fuel Oils, ASTM D1655-12a Standard Specification for Aviation Turbine Fuels, the Morgan standard, including Dynamic Demulsibility Endurance testing, and MIL-G-46886B, MIL-G-25537C, MIL-PRF-2105E for military applications to name a few. In addition we offer wear testing including FZG 12 & 14 stages, Hydraulic pump testing (mineral and water based lubricant testing), 4-Ball Wear and 4-Ball EP for greases and oils. We are experts in specialized grease analysis using methods such as Lincoln Vent Meter, LT-37 "U.S. Steel Method Mobility of Grease", Roll Stability, and LT-46 "Bethlehem Steel Combo Test Parts A & B".



[Learn More](#)

Clark Testing | | jcosta@clarktesting.com | <http://www.clarktesting.com>

1801 Route 51 South
Clairton, PA 15025

Text

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Clark Testing, 1801 Route 51 South, Clairton, PA 15025

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