



Lehigh Testing Laboratories, Inc.

Lehigh Testing Laboratories, Inc. specializes in the practical application of Materials Testing, Inspection, Materials Engineering, and Failure Analysis.

Our Quality Assurance and Conformity Assessment Testing Services include:

- Chemical Analysis - Including Toy Testing & RoHS Testing
- Metallography & Metallurgical Analysis
- Non-Destructive Testing & Inspection
- Physical & Mechanical Testing
- Process Safety Management & Mechanical Integrity Inspections
- Materials Engineering & Failure Analysis
- Corrosion Testing & Analysis

About Us

Lehigh Testing Laboratories, Inc. is an employee owned (ESOP) Materials Testing, Engineering and Consulting firm. We have been providing professional services since 1955, and are part of the MMR Group, Inc.

The Group includes three divisions, each with its own staff and laboratory to collectively serve diverse markets and locations. We have extensive experience with metals and non-metals, such as plastics, ceramics, and composites.

We provide services to diverse industries including petrochemical refining, aerospace, transportation, commercial manufacturing, chemical, military, nuclear, and power generation.

We also provide forensic Engineering, materials engineering, consulting, and expert witness services to the legal and insurance professions as well.

Our Experts versed in many aspects of material science and commercial manufacturing processes. They are equally versed in the processes and procedures of providing legal depositions and professional courtroom testimony.

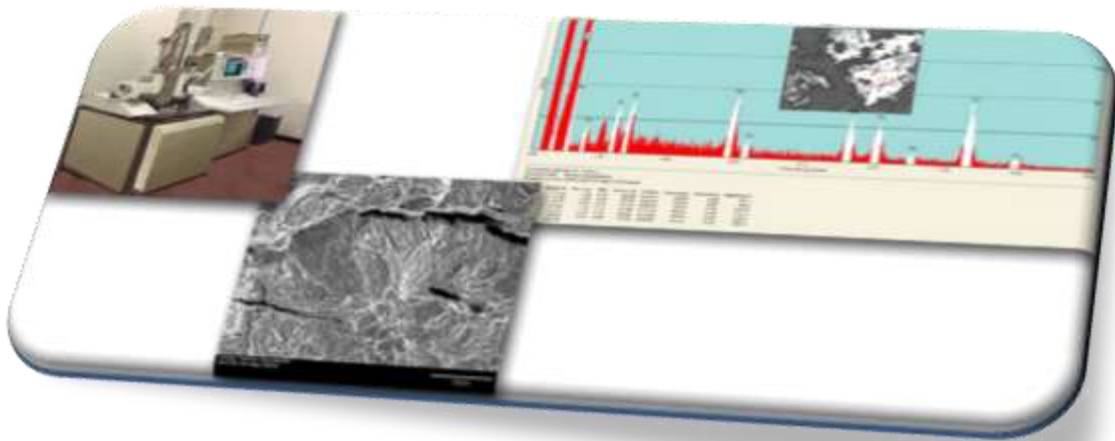
We have multiple accreditations and numerous independent vendor approvals.

Scanning Electron Microscopy

Our JEOL 820 scanning electron microscope (SEM) features a large chamber which can be accessed in vent-down mode for oversize components, and a small side-entry port for analysis of smaller samples.

We also perform energy dispersive spectroscopy (EDS) analysis using an Oxford Instruments light element detector equipped with a 4 Pi EDS analysis system.

- Fracture evaluations of failed components at high magnifications.
- Particle Analysis- Size, Distribution, and Identification.
- Image analysis capabilities using digital imaging including dimensional evaluation and particle sizing.
- Semi-quantitative composition analysis of elements and oxides.
- Contamination analysis of residues and surface conditions.
- Light element detection and analysis.
- EDS analysis of specified multiple points and defined areas within a defined field.
- Dot mapping of regions to determine presence of specified elements.
- Line scan capabilities to detect changes in relative concentrations.



IRIS© - Ultrasonic 'B' Scan Inspection Method

The Ultrasonic Internal Rotating Inspection System (*IRIS*©) is one of the most accurate, up-to-date, and reliable technologies for the inspection of heat exchanger and boiler tubes in use today.

IRIS inspection is an ultrasonic immersion pulse echo technique. It uses an ultrasonic transducer that is contained in a test head and is self-centered within the tube being examined.



Unlike Eddy current inspections, the data provided does not require special interpretation or guess work, and a report can be supplied immediately following the inspection. There is also increased reliability with IRIS© because the ultrasonic technique is quantitative. It can distinguish between external and internal conditions, and is not affected by the construction of the bundle (i.e. stiffeners, baffles, tube sheet and supports).

LTL has the necessary experience and certified inspectors to provide complete Mechanical Integrity Inspection programs. From development to implementation to ongoing program maintenance, we assist you throughout the entire inspection process.

Contact Us

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