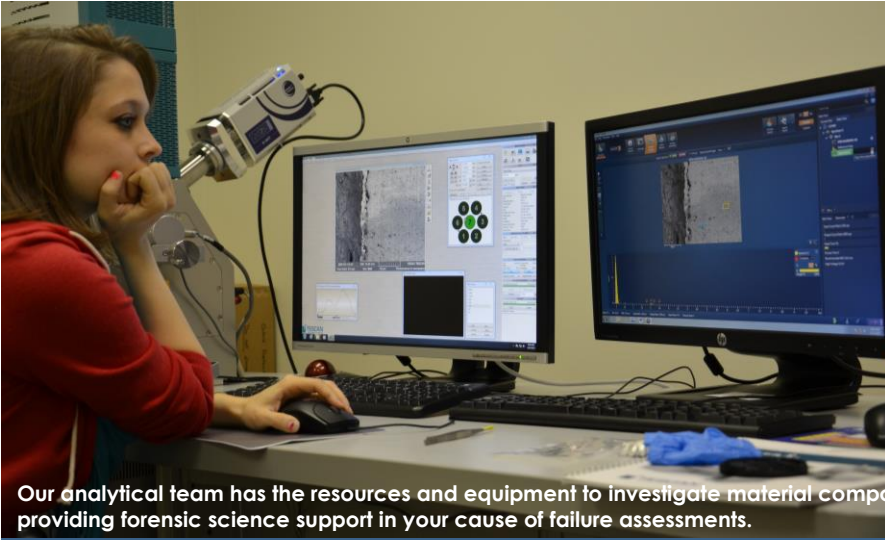




# ITLS Information Sheet



Our analytical team has the resources and equipment to investigate material compositions for providing forensic science support in your cause of failure assessments.

## ITLS Forensic Science Support Services include:

- Conventional Chemical Analysis
  - Ferrous Materials
  - Non-ferrous Materials
  - Polymers

- Scanning Electron Microscopic Evaluation w/EDS
  - Chemical Analysis
  - Coating Identification
  - Matrix Composition

- Light Microscopic Analysis
  - Complete depth of field
  - 3D Modeling

- Industrial Radiography Services



## Forensic Science Support Services

### Complete Characterization Analysis of Materials:



ITLS supports our clients by providing extensive conventional chemical analysis support. Our services include; OES (Plasma and Spark); XRF, LECO Combustion, Typical materials assessed, include:

- Ferrous Materials
- Non Ferrous Materials
- Polymers

Our Support Services include a number of provisions, including:

- Metallography-Cross Sectioning
- Cr(VI) ROHS Testing
- FTIR (of organic materials)
- ICP-MS (metals non-metals in liquids)

### Scanning Electron Microscope (SEM) w/Energy Dispersive Spectrometry (EDS)

Our Laboratory has the top of the line SEM/EDS equipment for performing material evaluations, and quantitative and qualitative chemical analysis on a microscopic level.

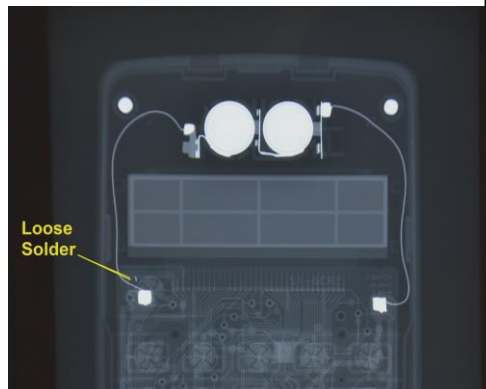
If warranted, ITLS can support your assessments with Consulting Metallurgical Engineers, ScD's, PhD's.

### Industrial Radiography

Industrial Radiography may be a valuable tool for you in performing an evaluation of a part or component, in a cause of failure case.

### Optical Microscopy

Our Keyence microscopic equipment allows us to **digitally** (to 1000X) overlay photographs of a surface, showing complete depth of field of a fracture. Through articulation, **we can photograph, accurately measure and 3-D model the fracture surface**, to help you in assessing a cause of failure.



Radiography is a nondestructive technique of **looking at the "inside" of an item** without compromising the condition of the part or component.

**"ITLS has the Chemical, Metallurgical and Nondestructive analytical tools to support your cause of failure assessments."**

