Service and Solutions for your Success

RTI LABORATORIES, INC.
Environmental, Chemical & Materials Testing

Mechanical Testing
• Tensile Testing *
• Proof Load
• Rockwell Hardness *
• Brinell Hardness *
• Microhardness *
• Charpy V-Notch *
• Hydrogen Embrittlement
• Jominy (hardenability)

Materials Characterization
• Microhardness (Knoop, Vickers) *
• RPAS (Chrysler)
• RoHS- Metals
• RoHS -PBB and PDE
• RoHS-phthalates
• LS2 Lubricant Testing (GM)
• FTIR
• TGA DSC (High res & modulated)
• GC/MS & GC/MS Pyro
• PFAS compounds by LC/MS/MS

Metallography
• Microhardness *
• Microstructures
• Fractography
• Case Depth *
• Inclusions *
• Decarburization *
• Plating / Coating Thickness *
• Heat Treating
• Grain Size *
• Scanning Electron (SEM) *
• Energy Dispersive Spectroscopy(EDS) *
• Microetching *
• Macroetching *
• Failure Analysis *
• Electronic Component solder evaluation

Destructive Testing
• Tensile Testing *
• Gears and Springs
• Weld Evaluations
• Casting

Environmental Analysis
• Wastewater *
• Solid waste *
• Air *

Metalworking Fluids
• Tramp Oil (%)
• Total Acid Number (TAN)
• Viscosity *
• Four Ball Wear
• Seal Compatibility
• Wear/additive metals *
• Percent Water*
  (Karl Fischer)
• ISO Cleanliness

Exposure
• Humidity
• Salt Spray *
• Chemical Exposure
• Cyclic Corrosion Testing
• Thermal Shock/Exposure

Paints & Coatings
• Failure Analysis
• EPA 24 VOC
• Deformation
• Thermal Analysis
• Contaminant Identification
• Batch/batch comparative analysis

Cleanliness Evaluation
• Parts cleaning and gravimetical analysis (Millipore) (ISO4405) *
• Parts cleaning and gravimetical analysis, particle size and distribution (ISO4406/16232) *
• Parts cleaning and gravimetical analysis, particle size, composition and distribution (ISO4407/16232) *
• Particle Size and Distribution by SEM (ISO 4407/16232) *
• Particle Size and Distribution by Laser Scatter (ISO4406) *

*Parameters that are specifically referenced in scopes of accreditation

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Accredited
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ACIL
Seal of Excellence Program
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