



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)

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



Materials Characterization

- Microhardness (Knoop, Vickers) *
- RPAS (Chrysler)
- RoHS- Metals
- RoHS - PBB and PDE
- LS2 Lubricant Testing (GM)
- FTIR
- TGA DSC (High res & modulated)
- GC/MS & GC/MS Pyro

Paints & Coatings

- Failure Analysis
- EPA 24 VOC
- Deformulation
- Thermal Analysis
- Contaminant Identification
- Batch/batch comparative analysis

Cleanliness Evaluation

- Parts cleaning and gravimetric analysis (Millipore) (ISO 4405) *
- Parts cleaning and gravimetric analysis, particle size and distribution (ISO 4406) *
- Parts cleaning and gravimetric analysis, particle size, composition and distribution (ISO 4407) *
- Particle Size and Distribution by SEM (ISO 4407) *
- Particle Size and Distribution by Laser Scatter (ISO4406) *

Metallography

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

Destructive Testing

- Tensile Testing *
- Gears and Springs
- Weld Evaluations
- Casting

Environmental Analysis

- Wastewater *
- Solid waste *
- Air *



*Parameters that are specifically referenced in scopes of accreditation

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