

Mission Statement:

To promote and foster the highest ethical relationship between producers and consumers by providing high quality, competitive, independent testing and product evaluation services in a timely and efficient manner.

Testing Capabilities:

▪ Mechanical ▪ Metallurgical ▪ Fatigue ▪ Failure Analysis ▪ Welding & Brazing Certification

- ❖ Static Tension / Compression, milligrams to 60,000 lbs
- ❖ Static Torsion, N-mm to 500+ in-lb
- ❖ 40+ Dynamic Tension / Compression Fatigue Frames, 0-6000+ lbs at 0-15+ Hz
- ❖ 13 Dynamic Torsion Fatigue Frames, 0-500+ in-lbs at 0-5+ Hz
- ❖ Rotating Beam, Taber Abrasion, Friction
- ❖ Hardness - Brinell, Rockwell, Superficial, and Micro Knoop & Vickers, 10-1000gf
- ❖ Dimensional, Optical Comparator, Thread Gaging
- ❖ CNC Machine shop for specimen preparation and custom mechanical test setup
- ❖ Displacement measurement capability for all mechanical tests
- ❖ Metallographic capability for grain evaluation, failure analysis and other surface conditions up to 1000X



Industries Served:

▪ Medical ▪ Aerospace ▪ Utilities ▪ Material Handling ▪ Automotive ▪ Manufacturing

Accreditation and Certification Bodies:

ISO/IEC 17025: 2005(E) General Requirements for the Competence of Testing and Calibration Laboratories
(American Association for Laboratory Accreditation (A2LA) Certification # 2422.01, www.a2la.org):

- ❖ ASTM E 18 - Rockwell Hardness (Scales A, B, C, N, T)
- ❖ ASTM E 384 - Microhardness (Knoop & Vickers)
- ❖ ASTM E 8 - Tensile
- ❖ ASTM F 1717 - Spinal Implant Constructs
- ❖ ASTM F 2077 - Intervertebral Body Fusion Devices
- ❖ ISO 7206 - Hip Stem Static and Dynamic
- ❖ ASTM E 3 - Preparation
- ❖ ASTM E 1268 - Banding / Orientation of Microstructure
- ❖ ASTM E 1077 - Depth of Decarburization
- ❖ ASTM E 340 - Macro Etch
- ❖ ASTM E 45, Method A - Inclusion Rating
- ❖ ASTM E 112 - Grain Size
- ❖ ASTM E 883 - Photomicrography / Light Microscopy
- ❖ ASTM E 407 - Micro Etch
- ❖ Failure Evaluation using ASM Vols 9 & 11

GE Aircraft Engines, [GT 193](#), See [GE Yellow Pages](#)

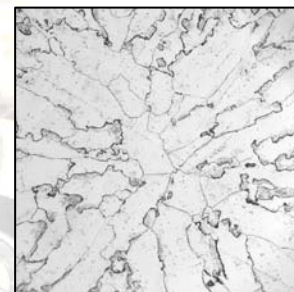
- ❖ L - Metallography (Micro) and Microhardness
- ❖ XL - Metallography (Macro)
- ❖ M - Hardness

Pratt & Whitney Aircraft Engines

- ❖ 5 - Hardness
- ❖ 7 - Metallographic Examination

Professional Engineering Certificate # E54081, State of Ohio (614-466-3650)

Certified Welding Inspector CWI # 85050431, American Welding Society (800-443-9353)



Testimonial:

"Thank you! We could not quantify our conclusions until now. We have used other labs in the past, but we haven't been nearly as pleased with their analysis. I recommend we utilize your testing capabilities for future products." - a major medical device manufacturer