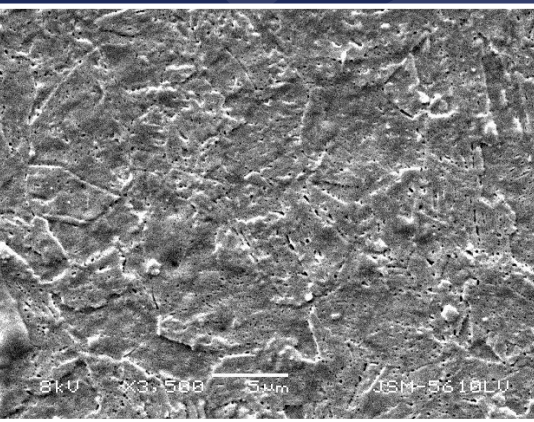




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SEM Micrograph of Turbine Wheel

Life Assessment Tests & Activities:

- Visual Inspections
- Replica and Hardness Testing
- Eddy Current Inspections
- Ultrasonic Flaw Detection
- Magnetic Particle Inspection

Rotor **Life** **Assessment**



**Ultrasonic Flaw Detection
Testing of a Turbine Wheel**

MJB have the capabilities to carry full rotor life assessment, designed to extend and manage the life of your gas turbine. A rotors operational life is finite & exceeding rotor life can result in failures that can damage the entire turbine.

Conditions limiting rotor life include:

- Maintenance Practices
- Operating History
- Low cycle fatigue cracking
- Crack initiation / Crack growth
- Material aging / properties
- Creep rupture

Remaining life analysis consists of various Non-Destructive tests. The non-destructive tests are performed on the rotor to assess the material condition of the rotor components.



**Eddy Current
Testing of a
Turbine Wheel**