



**In this form of testing, very short ultrasonic pulse-waves are introduced into materials in order to detect internal problems.**

The sound waves are launched into the material being tested through an ultrasonic source, usually in the form of an ultrasound transducer. As the sound travels through the item, material reflections or echoes occur from the back surface.

In addition any internal discontinuity will reflect the sound wave and generate a signal into the receiver. The time lags of the echoes are measured in order to determine the thickness of the material and the distance to the discontinuity in the product.

This method can prove to be very useful and is used within the automotive and transportation sectors. Pictured on the right are ITCL inspectors carrying out an ultrasonic inspection.

#### Services available from ITCL

- Approved procedures for control checks.
- Approved procedures to specific industry standard
- Inspectors fully qualified to PCN, SNT-TC 1A, CSWIP/BGAS

Comprehensive 24hr in house & onsite service



An ITCL inspector in mid test (above & below)

