

Technical Information

CALIBRATION CERTIFICATES

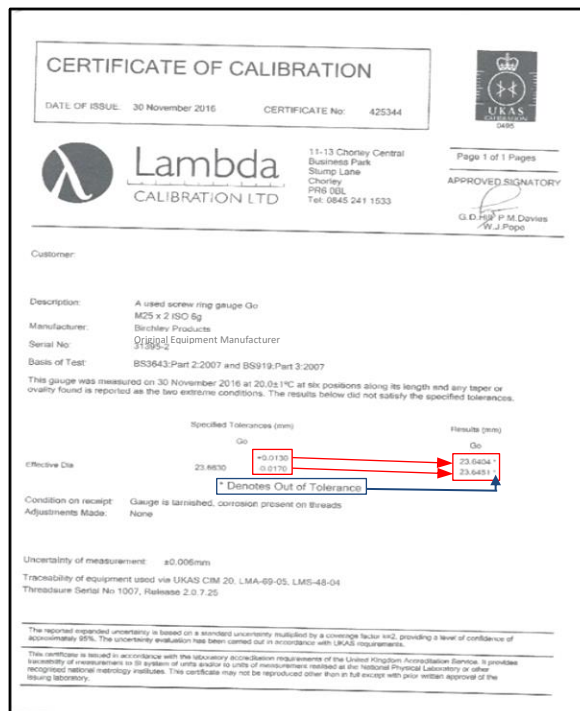
T012

Guidance on understanding Calibration Certificates

Many centre technicians have confessed to not really understanding the information on their calibration certificates. This has become clear because they have continued to use thread gauges that are shown to be **'out of tolerance'** on the respective calibration certificate.

So how do you interpret the information shown. (See example below)

- Check the certificate shows an ISO/IEC 17025 laboratory logo and number. If this is not shown, then IDEST cannot accept the certificate.
- Check that your company is listed as the 'owner' of the thread gauge.
- Check that the thread gauge listed has the correct serial number or ID.
- Double check that this identification is etched or engraved on the gauge and not just a sticky label that could come off.
- Any gauge that does not have the identification etched or engraved onto its surface cannot be traced and so is invalid. The gauge and calibration certificate must match up for traceability.
- Check that the calibration date is correct and within permitted period.
- Check the acceptable limits for that gauge.
- Calculate the actual size if given the upper and lower tolerances and check that they fall within the acceptable tolerances.
- See whether there is an asterix, star or other mark after the size measured. If there is, a footnote will explain that this gauge is **'out of tolerance'** and should therefore NOT BE USED to check diving and breathing apparatus cylinder/valve threads.
- A REPLACEMENT NEEDS TO BE PURCHASED from a thread gauge manufacturer.
- If you are ever in doubt about the information, contact the calibration laboratory.
- Ignorance is not an excuse for poor engineering practice.



CERTIFICATE OF CALIBRATION

DATE OF ISSUE: 30 November 2016 CERTIFICATE No: 425344

Lambda CALIBRATION LTD 11-13 Chorley Central Business Park, Slump Lane, Chorley, PR6 5SL, Tel: 0845 241 1533

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APPROVED SIGNATORY: G.D. Hill, P.M. Davies, W.J. Pope

Customer: [Redacted]

Description: A used screw ring gauge G0
M25 x 2 ISO 5g

Manufacturer: Birchley Products

Serial No: Original Equipment Manufacturer 219194

Basis of Test: BS3643:Part 2:2007 and BS919:Part 3:2007

This gauge was measured on 30 November 2016 at 20.0±1°C at six positions along its length and any taper or ovality found is reported as the two extreme conditions. The results below did not satisfy the specified tolerances.

Specified Tolerances (mm)	Results (mm)
G0	G0
23.6170	+0.0130 23.6404
	23.6481

Condition on receipt: Gauge is tarnished, corrosion present on threads

Adjustments Made: None

Uncertainty of measurement: ±0.006mm

Traceability of equipment used via UKAS CIM 20, LMA-69-05, LMS-48-04
Thermobase Serial No: 1007, Release 2.0 7.25

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

This certificate is issued in accordance with the regulatory accreditation requirements of the United Kingdom Accreditation Service, it provides traceability of measurements to SI units or units derived from SI units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full except with prior written approval of the issuing laboratory.

PLEASE READ IN CONJUNCTION WITH T011