


Laboratory Accreditation Programmes

Schedule to CERTIFICATE OF ACCREDITATION	
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URL	www.xraylabs.co.nz
Authorised Representative	Mr Andrew Fischer Office Manager
Client No.	146
Programme	Mechanical Testing Laboratory
Accreditation Number	188
Initial Accreditation Date	11 October 1982
Conformance Standard	NZS ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories
Testing Services Summary	4.75 Welder Qualification Tests 4.76 Metals and Metal Products 4.79 Metallographic Tests on Metals 4.81 Non Destructive Tests by Radiography 4.82 Non Destructive Tests by Ultrasonics 4.83 Non Destructive Tests by Visual Inspection 4.84 Non Destructive Tests by Dye Penetrant Methods 4.85 Non Destructive Tests by Magnetic Particle methods
Signatories	Mr Mike Fischer 4.75, 4.76, 4.79, 4.81(a)(ii), 4.82, 4.83 Mr Andrew Fischer 4.75, 4.76, 4.79, 4.81, 4.83, 4.85 Mr Adrian Maxwell 4.82(a), 4.83, 4.84, 4.85

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4.75 Welder Qualification Tests

Tests in accordance with the standards such as:

- ASME IX
- AS/NZS 2980
- BS EN 287-1
- BS EN ISO 9606-1
- BS EN ISO 9606-2

4.76 Metals and Metal Products

Tests in accordance with the standards such as:

- (a) Tension tests in accordance with the following standards in the load range 5 kN to 500 kN (Excluding proof stress)

- AS 1391
- ASTM E8
- BS EN 10002.1
- BS EN ISO 6892-1

- (c) Bend tests (including transverse root and face, longitudinal and side) in accordance with the following standards:

- AS 2205
- ASME IX
- BS EN 910
- BS EN ISO 15614-1
- BS EN ISO 15614-2
- ISO 5173

- (e) Hardness tests in accordance with the following standards

Vickers hardness tests in the load range 5 kgf to 50 kgf in accordance with

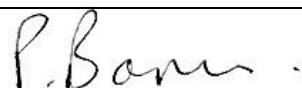
- BS EN ISO 6507.1

- (f) Impact tests in accordance with the following standards

Charpy impact tests in the load range between -50 ° and ambient

- AS 1544.2
- AS 1817
- BS EN 10045.1

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BS EN ISO 148-1:2010

(g) Weld tests (tensile, hardness, bend, nick breaks and macro-examination) in accordance with the following standards

- AS 2205
- ASME IX
- BS EN 8915
- BS EN 15614-1
- BS EN 15614-2

4.79 Metallographic Tests on Metals

(h) Tests on weld in accordance with the following standards

- AS 1665
- AS 2205
- BS EN ISO 9606-2
- ASME IX
- EN 287: Part 1 and 2
- EN 15614-1
- EN 1321
- NZ/AS 1554: Part 1
- ISO 17639

4.81 Non Destructive Tests by Radiography

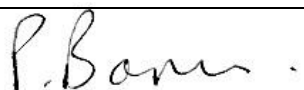
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| (a) Radiographic examination of metals | |
| i) Single wall or rolled products | |
| - thickness measurements | Al, Fe, SS |
| - corrosion pitting | Al, Fe, SS |
| ii) Welded Joints | Al, Fe, SS |
| iii) Castings | Al, Fe, SS |
| iv) Forgings | Al, Fe, SS |

X and gamma radiography of butt welded joints in accordance with:

- ASME V Article 2
- AS 2177- Part 1
- BS EN 1435
- ISO 17636-1

4.82 Non Destructive Tests by Ultrasonics

- | | |
|--------------------------------------|----|
| (a) Ultrasonic examination of metals | |
| (ii) Welded joints | Fe |

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- (b) Ultrasonic examination of bonded metals
- (iv) Friction welded components

In accordance with the following standards

- AS 2207
- ASME V
- BS EN 1714
- ISO 17640

4.83 Non Destructive Tests by Visual Inspection

- (a) Visual inspection of metals
 - (i) Flat or rolled product Fe, Al
 - (ii) Welded joints Fe, Al
 - (iii) Castings Fe, Al
 - (iv) Forgings Fe, Al

4.84 Non Destructive Tests by Dye Penetrant Methods

- (i) Visible dye
 - Water washable Fe, Al
 - Solvent removable Fe, Al

4.85 Non Destructive Tests by Magnetic Particle methods

- (i) Magnetic flow method
 - Welded joints Fe
 - Forgings Fe
 - Castings Fe

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