


## Laboratory Accreditation Programmes

Schedule to <b>CERTIFICATE OF ACCREDITATION</b>	
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<b>Authorised Representative</b>	Mr Andrew Fischer Office Manager
<b>Client No.</b>	146
<b>Programme</b>	Mechanical Testing Laboratory
<b>Accreditation Number</b>	188
<b>Initial Accreditation Date</b>	11 October 1982
<b>Conformance Standard</b>	NZS ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories
<b>Testing Services Summary</b>	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
<b>Signatories</b>	Mr Andrew Fischer                      4.75, 4.76, 4.79, 4.81, 4.83, 4.84, 4.85 Mr James Sinclair                      4.75, 4.76, 4.82, 4.83, 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 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 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

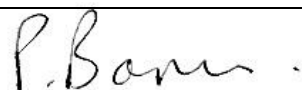
- BS EN ISO 6507.1

- (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
- BS EN ISO 148-1:2016

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

- AS 2205
- ASME IX
- 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
- ASME IX
- BS EN ISO 9606-2
- EN 15614-1
- EN 1321
- ISO 17639
- AS/NZS 1554: Part 1

## 4.81 Non Destructive Tests by Radiography

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

In accordance with the following standards

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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   | Al, Fe |
|     | ii) Welded joints           | Al, Fe |
|     | iii) Castings               | Al, Fe |
|     | iv) Forgings                | Al, Fe |

**4.84 Non Destructive Tests by Dye Penetrant Methods**

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

**4.85 Non Destructive Tests by Magnetic Particle methods**

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

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