



**Southern QA Limited**

**Client Number 1644**

PO Box 15120, Aranui, Christchurch, 8643  
19 Helanca Avenue, Wainoni, Christchurch, 8061

**Telephone 03 381-1670**

**www.sqal.co.nz**

**Authorised Representative**

Mr Guy Drayton  
Quality Assurance Manager

**Programme**

Mechanical Testing Laboratory

**Accreditation Number 400**

**Initial Accreditation Date 28 May 1990**

**Conformance Standard**

ISO/IEC 17025:2017


General requirements for the competence of testing and calibration laboratories

**Laboratory Services Summary**

- 4.71 Coatings
- 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
- 4.86 Non Destructive Tests by Eddy Current
- 4.87 Non Destructive Tests by Specialised Techniques

**Key Technical Personnel**

- Mr Dean Aldridge 4.75, 4.81, 4.83, 4.84, 4.85
- Mr Casey Ayers 4.75, 4.76, 4.79, 4.81, 4.82, 4.83, 4.84, 4.85
- Mr Michael Bell 4.75, 4.76, 4.79, 4.81, 4.83
- Mr Albert Caldwell 4.82, 4.83, 4.84, 4.85
- Mr Ian Crawford 4.83
- Mr Rick Cummins 4.82 (thickness only), 4.83, 4.85 (yoke only)

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# CERTIFICATE OF ACCREDITATION



Mr Kevin Gibson	4.76, 4.85
Mr Shane Harvey	4.82 (a)(e), 4.83, 4.84, 4.85 (excl Bench)
Mrs Hendrina (Rene) Hill	4.71
Mr Brendon Isherwood	4.75, 4.79, 4.83, 4.84, 4.85
Mr Ryan Isherwood	4.82, 4.83, 4.85
Mr David Leech	4.75, 4.83, 4.85, 4.86
Mr Milan Mehta	4.83, 4.84, 4.85 (Yoke Only)
Mr Rob Penney	4.75, 4.76, 4.79, 4.81, 4.82, 4.83, 4.85, 4.87(d)
Mr Grant Russell	4.75, 4.76, 4.79, 4.81, 4.83, 4.85, 4.87
Mr Glen Shanks	4.75 (visual only), 4.81, 4.82 (a)(e), 4.83, 4.84, 4.85, 4.86
Mr Greg Shea	4.75 (visual only), 4.81, 4.82, 4.83, 4.85 (yoke only)
Mr Lee Smith	4.82, 4.83, 4.84, 4.85
Mr Paul Smith	4.81, 4.83, 4.85
Mr Rob Van Loenhout	4.75, 4.79, 4.82 ((a)ii)(c)(e), 4.83, 4.85

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**Christchurch, Hamilton, Invercargill, Wellington, Auckland**

**4.71 Coatings**

The following tests in accordance with the listed or similar standards

ASTM D3359	Rating Adhesion by Tape Test
ASTM D4541	Pull off strength of Coatings using Portable Adhesion Tester Method E: Self Alignment
SSPC-PA2	Conformance to dry coating thickness requirements – Electronic Gauge
AS 3894.3	Site Testing of Protective Coatings - Determination of Dry Film Thickness
AS 3894.5	Site testing of protective coatings – Determination of surface profile
ISO 8501-1	Preparation of steel substrates – Visual assessment of surface cleanliness
ISO 8502-6	Tests for the Assessment of Surface Cleanliness - Extraction of Soluble Contaminants

**4.75 Welder Qualification Tests**

Visual, macro-examination, bend and break tests in accordance with the following standards:

API 1104	Welding of pipelines and related facilities
AS 1554 parts 1 to 7	Structural steel welding
AS 1665	Welding of aluminium structures
ASME IX	Welding Qualifications
AS/NZS 2205.2.1	Methods for destructive testing of welds in metal Transverse butt tensile tests
AS/NZS 2205.3.1	Destructive tests on welds in metallic materials — Bend tests.
AS/NZS 2205.4.1	Methods for destructive testing of welds in metal Fracture test
AS/NZS 2205.4.2	Methods for destructive testing of welds in metal Fillet break test
AS/NZS 2980	Qualification of welders for fusion welding of steels
AS/NZS 9606-1	Qualification testing of welders – Fusion welding – Part 1: Steels
BS EN ISO 15614	Welding procedure test — Arc and gas welding of steels and arc welding of nickel and nickel alloys
BS EN ISO 9606-1	Qualification testing of welders — Fusion welding Part 1: Steels.
ISO 5173	Destructive tests on welds in metallic materials — Bend tests
ISO 9017	Destructive tests on welds in metallic materials — Fracture test
ISO 17639	Destructive tests on welds in metallic materials — Macroscopic and microscopic examination of welds

**4.76 Metals and Metal Products**

**(e) Tests in accordance with the following standards**

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ASTM A956 Leeb Hardness Testing of Steel Products

**4.79 Metallographic Tests on Metals**

Test methods in accordance with the following standard:

- AS 2205.5.1, Method 5.1 Macro Test – Cross-section examination
- ISO 17639 Macroscopic & Microscopic examination of welds

**4.81 Non Destructive Tests by Radiography**

**(a) Radiographic examination of metals**

- (i) Single wall or rolled product, thickness measurement, corrosion pitting
- (ii) Welded Joints Aluminium, Iron Alloys, Stainless Steel
- (iii) Castings Iron Alloys, Stainless Steel

**4.82 Non Destructive Tests by Ultrasonics**

**(a) Ultrasonic examination of metals on the following elements:**

(Aluminium, Copper, Iron Alloys, Nickel, Magnesium and Zinc)

- (i) Single wall or rolled product thickness measurements and corrosion pitting
- (ii) Welded joints
- (iii) Castings
- (iv) Forgings
- (v) Extruded Product
- (vi) Nozzle & Node Welds

**(c) Ultrasonic examination of components and assemblies**

- (ii) Bonded assemblies
- (iii) Thickness measurements

**(e) Manual Phased Array**

(Aluminium, Copper, Iron Alloys, Nickel, Magnesium and Zinc)

- (i) Single wall or rolled product thickness measurements corrosion pitting
- (ii) Welded Joints
- (iii) Castings
- (iv) Forgings
- (v) Extruded products

**4.83 Non Destructive Tests by Visual Inspection**

**(a) Visual inspection of metals**

(Aluminium, Iron Alloys, Stainless Steel)

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- (i) Flat or rolled product
- (ii) Welded joints
- (iii) Castings
- (iv) Forgings

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

Penetrant Testing in accordance with standards:  
 (Aluminium, Copper, Iron Alloys, Nickel, Magnesium, Zinc and Stainless Steel)

**(a) Visible dye**

- (i) Water washable
- (ii) Solvent removable method

**(b) Fluorescent dye**

- (i) Water washable
- (ii) Solvent removable method

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

Magnetic Particle Testing in accordance with the following standards:

**(a) Magnetic flow method**

- (i) Welded joints
- (ii) Forgings
- (iii) Castings
- (iv) Machined parts


**(b) Current flow method                      Amps AC/DC 5000 Amps**

- (i) Welded joints
- (ii) Forgings
- (iii) Castings
- (iv) Machined parts

**(c) Coil method                                      Amps AC/DC**

- (i) Welded joints
- (ii) Forgings
- (iii) Castings
- (iv) Machined parts

**4.86 Non Destructive Tests by Eddy Current**  
 (all metals)

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- (a) Surface flaw detection
- (b) Metallic Coating thickness measurement
- (c) Sorting of materials and components
- (d) Sub-surface flaw detection
- (e) Weld testing

**4.87 Non Destructive Tests by Specialised Techniques**

- (d) Automatic Phased Array (Thickness only)

**BRANCH LABORATORIES**

**Christchurch**  
19 Helanca Drive  
Wainoni, Christchurch 8061

**Invercargill**  
37 River Street, Prestonville  
Invercargill 9810

**Hamilton**  
51 Riverlea Road  
Hamilton 3216

**Wellington**  
Unit 10  
82 Eastern Hutt Road  
Lower Hutt 5019

**Auckland**  
31.A Church Street  
Onehunga,  
Auckland 1061

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