

- ✓ NDT & Inspection
- ✓ Hydrostatic testing
- ✓ Weld qualification
- ✓ Concrete testing
- ✓ Mechanical testing
- ✓ Metallurgical services
- ✓ Chemical analysis & PMI
- ✓ Pressure plant inspection

Magnetic particle test report



Report number LA26-0071-01 MT
Customer name Leed Steel Pty Ltd
Address 513 Atkins Street Albury NSW Australia 2640
Requested by John Turner
Purchase Order PO-34470-C-2049
Accredited laboratory LMATS Albury Laboratory
Test date 18/02/2026
Job address 513 Atkins Street Albury NSW Australia 2640
Job description MT inspection of welds on structural components
Identification Job # 2049
Material grade Carbon steel
Test specification AS/NZS 1554.1:2014 - Cl.6.2.2 Cat SP - NDT on welds
Test method AS 1171 - 1998 (Reconfirmed 2022)-MT - colour contrast
Test procedure TP-MT-01 (I1, R9)
Test type Wet colour contrast (visible)
Viewing condition Visible colour contrast (non-fluorescent)
Magnetization Magnetic flow method - AC yoke
Test area Weld & associated HAZ surface only
Surface condition As welded
Equipment L006894 Huatec HCDX-Y2 MT Yoke, L004852 NDT Equipment sales SB0023 MT Calibration block, L004842 Digital lux meter White light meter Light meter
Lighting conditions White light illuminance >1100 lx

Consumables

Background	Batch no.	Particle type	Batch no.
MR Chemie MR72	2212020	MR Chemie MR76S	2411059

Demagnetised

No

Approved tester

Ben Mulholland (AINDT Lvl2 VT, Lvl 3 MT, PT, UT Forgings)

Test results

Refer to Table 1 for test area identification and results



Accreditation No. 15840

Accredited for compliance with
ISO / IEC 17025 - Testing

Signatory
Wayne Blakeman
(AINDT L2 UT MT PT)



Report issued on 23/02/2026

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Table 1: Test items identification (provided by the client) and results (All dimensions in mm unless stated otherwise)

Identification	Drawing No.	Description	PQR/WPS No.	Welder name (ID)	Discontinuities	Result
Part - 1	13474-SR-01-101	All welds on lifting lugs and brackets	WPS-LS012A/LS010	Phil Heir	NUSID	C
Part - 2	13474-SR-01-101	All welds on lifting lugs and brackets	WPS-LS012A/LS010	Phil Heir	NUSID	C
Part - 3	13474-SR-01-101	All welds on lifting lugs and brackets	WPS-LS012A/LS010	Phil Heir	NUSID	C

Test restrictions

Nil

Comments

Nil

Test, inspection process specific notes

- According to the guidelines in international standards, Magnetic Particle Testing is not preferred for detecting surface porosity. Clients are advised to consider alternative methods such as Penetrant Testing to detect surface porosity on an uncoated surface.

Normative general notes

1. Test and inspection items may be discarded after 6 weeks, unless alternative arrangements are made with LMATS.
2. Samples, identification of samples and all job specific details were supplied by the client. The test results relate only to the items tested or sampled.
3. Any stated nominal pipe sizes and nominal thickness of the material were provided by the client.
4. Where applicable, the Measurement Uncertainty (MU) applies to the test results as per LMATS procedure. MU can be obtained by contacting one of LMATS ISO 17025 accredited laboratories.
5. Acceptance criteria is applied from the test specification. If the test specification does not include acceptance criteria, then the test or inspection results should be referred to a competent authority for further action.
6. Refer to the attached revision notes if this report has been revised. This report shall not be reproduced except in full without approval of the issuing laboratory to ensure that parts of a report are not taken out of context. The client or their representatives shall not edit this report.
7. LMATS or its professional indemnity insurance provider do not indemnify the contents within this report or the conformity of a tested product unless the invoice for the reported work is paid in full within the agreed credit terms. Reports will be revoked if the invoice for the completed work is not paid in full.

Abbreviations used in this report

A - No discontinuities detected	BT - Burn (melt) Through	C - Comply
CP - Crater Pipe	DMC - Does Not Comply	EC - Elongated Cavity (hollow bead)
F - Failed	GP - Gas Pore	HiLo - Linear misalignment
IC - Copper Inclusion	IL - Linear Inclusion (slag line)	IN - Inclusion
IO - Oxide Inclusion (wagon tracks)	IT - Tungsten Inclusion	KC - Crater crack
KL - Longitudinal crack	KT - Transverse crack	LI - lack of Inter-run fusion
LP - Incomplete root Penetration	LR - lack of Root fusion (missed edge)	LS - lack of Side fusion
NRRD - No Recordable Reflections Detected	NUSID - No unacceptable Surface Indications Detected	P - Passed
p.d. - Processing / film Defects	PG - Localized Porosity	PL - Linear Porosity
PU - Uniform Porosity	RP - Report findings	SED - Excessive Dressing (underflushing)
SGL - Incompletely filled Groove	SGS - Shrinkage Groove	SMG - Grinding Mark
SMH - Hammer Mark	SMT - Tool Mark (chipping mark)	SRC - Root Concavity (Suck back)
SSP - Spatter	SUC(e) - Undercut External	SUC(i) - Undercut Internal
SXP - Excessive Penetration	WH - Worm Hole	



Image 1 of 7 - General view of the test area



Image 2 of 7 - General view of the test area



Image 3 of 7 - General view of the test area



Image 4 of 7 - General view of the test area

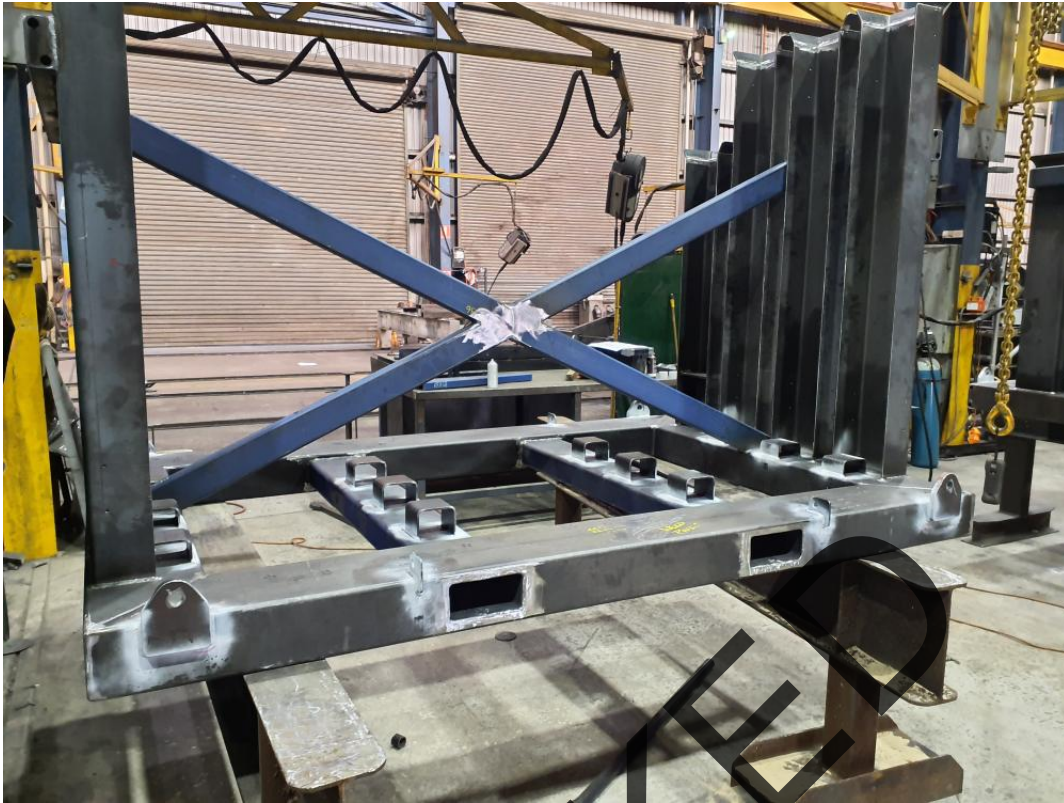


Image 5 of 7 - General view of the test area



Image 6 of 7 - General view of the test area

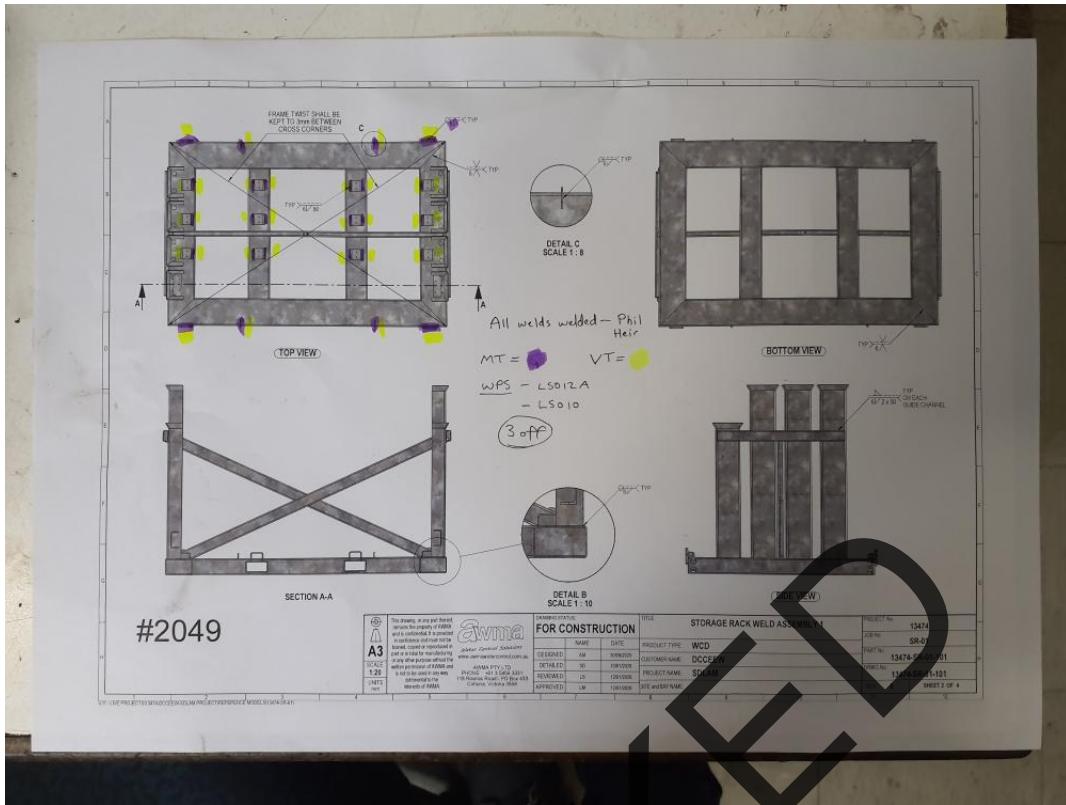


Image 7 of 7 - General view of the test area

REVOKED