

Magnetic particle test report

Report number LA26-0198-01 MT
Customer name Leed Steel Pty Ltd
Address 513 Atkins Street Albury NSW Australia 2640
Requested by John Turner
Purchase Order TBA
Accredited laboratory LMATS Albury Laboratory
Test date 11/05/2026
Job address 513 Atkins Street Albury NSW Australia 2640
Job description MT inspection of welds on structural components
Identification Job #2071
Material grade Carbon steel
Test specification AS/NZS 1554.1:2014 - Cl.6.2.2 Cat SP - NDT on welds
Acceptance criteria 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

Signatory

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

Identification	Description	PQR/WPS No.	Welder name (ID)	Discontinuities	Result
03-101	10% of welds on item (refer to drawing)	LS010, LS012A	Shane Sard, Phil Heir	NUSID	C
02-101	10% of welds on item (refer to drawing)	LS010, LS012A	Shane Sard, Phil Heir	NUSID	C
02-201	10% of welds on item (refer to drawing)	LS010, LS012A	Shane Sard, Phil Heir	NUSID	C
05-101	10% of welds on item (refer to drawing)	LS010, LS012A	Shane Sard, Phil Heir	NUSID	C
04-101	10% of welds on item (refer to drawing)	LS010, LS012A	Brad Jupp, 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
DNC - 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)	SGI - 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



Image 1 of 4 - General view of the test area



Image 2 of 4 - General view of the test area



Image 3 of 4 - General view of the test area

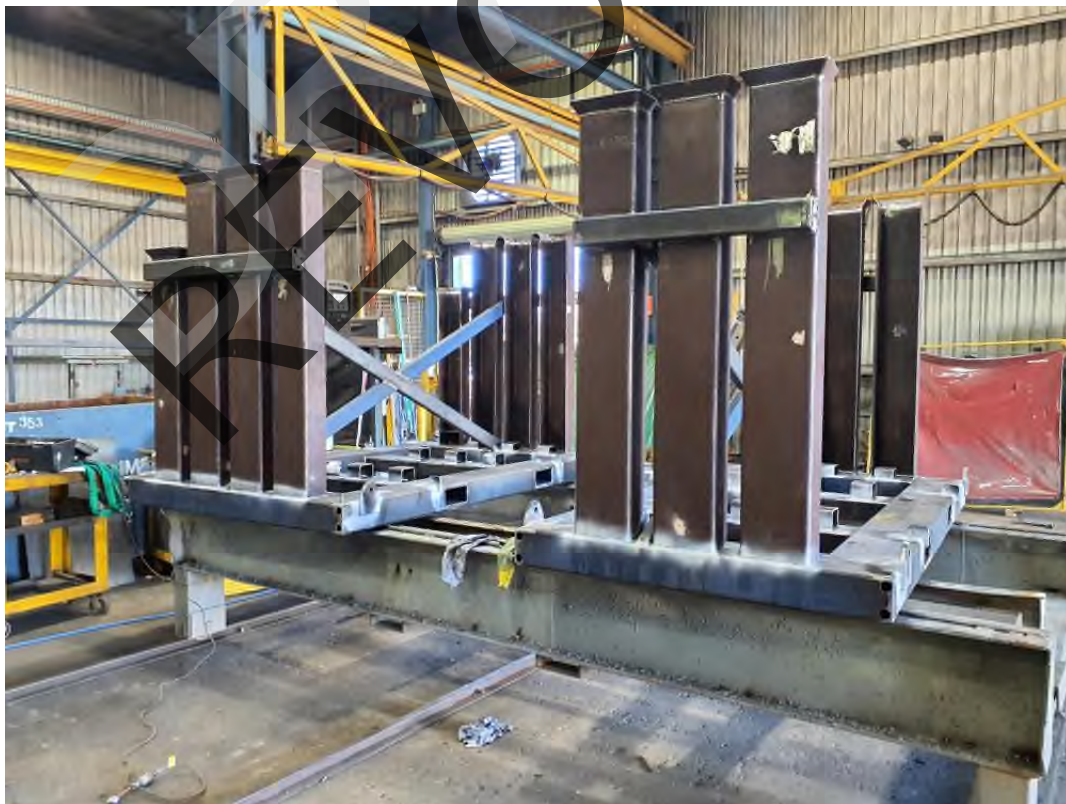
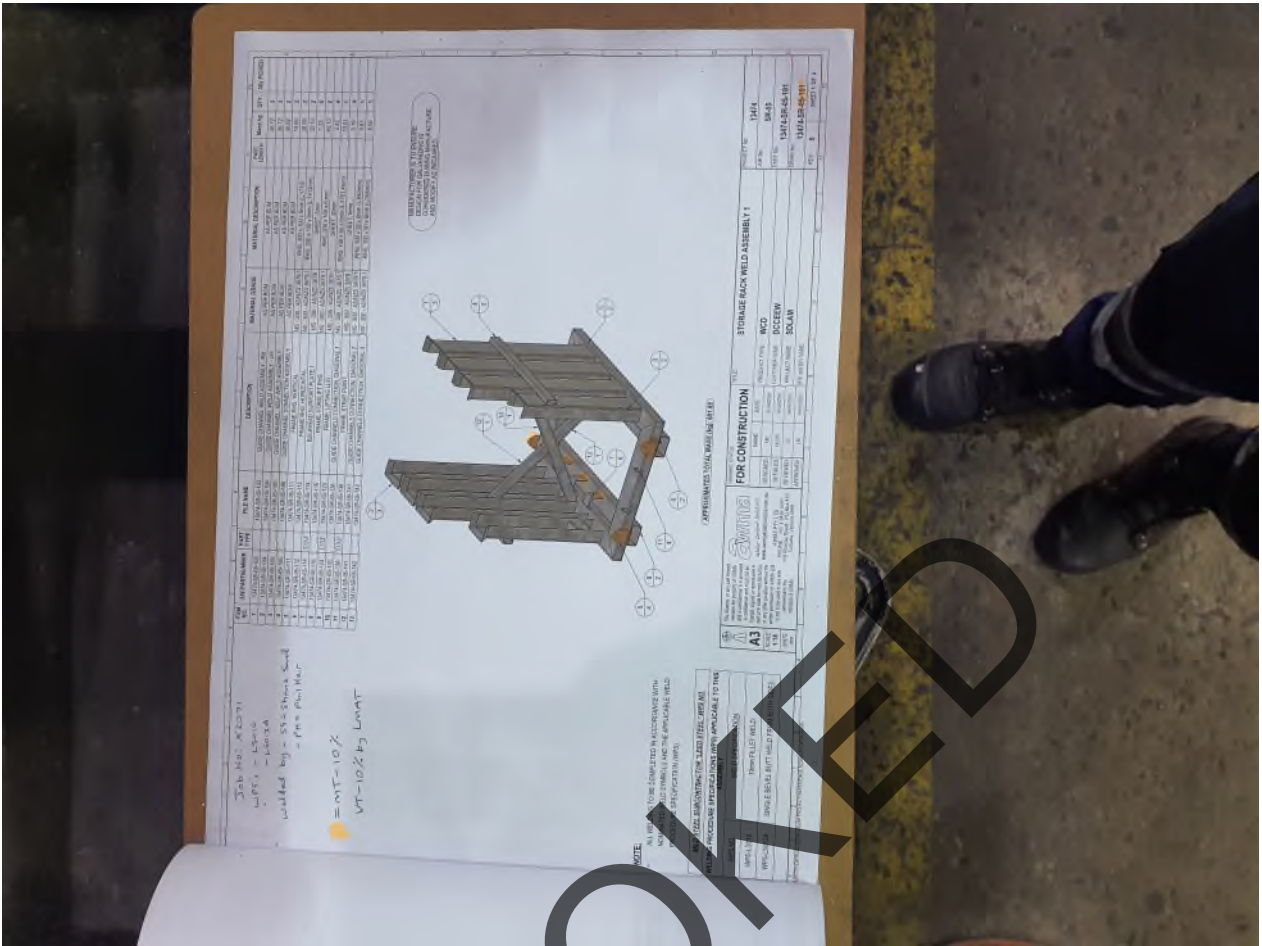


Image 4 of 4 - General view of the test area

REVOLVED



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