

✓ NDT & Inspection

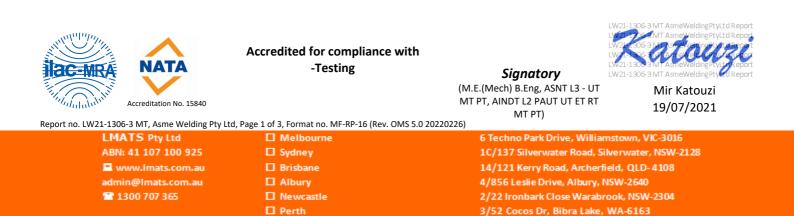
- ✓ Hydrostatic testing
- ✓ Weld qualification
- ✓ Concrete testing

✓ Mechanical testing

- Metallurgical services
- Chemical analysis & PMI
- ✓ Pressure plant inspection

## Magnetic particle test report

Report number	LW21-1306-3 MT						
Customer name	Asme Welding Pty Ltd						
Address	14 Industrial Drive Sunshine VIC Australia 3020						
Requested by	Kenny Nguyen						
Purchase Order	PO-1782						
Accredited laboratory	LMATS Melbourne Laboratory						
Test date	14/07/2021						
Job address	LMATS Melbourne Laboratory						
Job description	Magnetic Particle Inspection of Welder Qualification Coupon						
Identification	DOW-034						
Material grade	ASTM A106/A106M-18 Grade B						
Test specification	AS/NZS 2885.2:2020						
Test method	AS 1171 - 1998 (Superseded)						
Test type	MT - Wet colour contrast						
Test procedure	TP-MT-01 (I1,R7)						
Magnetization	Magnetic Flow Method - AC						
Test area	Weld & associated HAZ surface only						
Surface condition	As welded						
Equipment	L004457 KDE KDE LED MT Yoke, L0528 Jining Fig. B2 MT Calibration block, L003572 Digital Lux Meter Light meter						
Consumables	Background:DUBL-CHEK CP-2Particle type:DUBL-CHEK BO-1						
Demagnetised	No						
Approved tester	Ben Ross (AINDT RT MT PT L2)						
Test results	Refer to Table 1 for test area identification and results						





## Table 1: Test area identification (provided by the client) and results (All dimensions are in mm)

Weld No.	Material Grade	Pipe size	Thickness	PQR/WPS No.	Welder name (ID)	Weld type	Weld Process	Discontinuities	Result
WELD 02	A106	100 NB	6.02mm	WPS-ISW-67	AP-052	Branch	MMAW	NUSID	С



Test restrictions

Nil

Comments Nil

## Notes

1. All test and inspection items will be discarded after 6 weeks, unless retrieved by the clients representative

2. Samples, identification of samples and all job specific details were supplied by the client.

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 the LMATS ISO 17025 accredited laboratory.

5. If this report does not specify 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 is 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) 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.d. - Processing / film Defects PG - Localized Porosity PL - Linear Porosity PU - Uniform Porosity 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 WH - Worm Hole

End of LMATS report. Information included on the following pages (if any) was provided by the client or other parties.