

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

Magnetic particle test report

Report number	LW21-1306-1 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Test method	AS 1171 - 1998 (Superseded)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-2 Particle 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



Accreditation No. 15840

Accredited for compliance with
-Testing

Signatory

(M.E.(Mech) B.Eng, ASNT L3 - UT
MT PT, AINDT L2 PAUT UT ET RT
MT PT)

Mir Katouzi
19/07/2021

LW21-1306-1 MT AsmeWeldingPtyLtd Report
LW21-1306-1 MT AsmeWeldingPtyLtd Report



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
F35-L	A106	100 NB	6.02mm	WPS-FP-035	AP-052	Butt	GTAW	NUSID	C

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

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