

WELDER PERFORMANCE QUALIFICATION (WPQ)
Guild Moore & Hilder cc - Dynamic Options Engineering & Fabrications

GMHcc
 Pressurised Systems
 Reg. No. CK99 22907/23

Designation ASME IX:2023 GTAW P-No.8 to P-No.8 3 DN
6G



Name	ARTHUR GUVAKUVA			WPQ Record #	DN3 WPQ_304I				
Welder ID				Qualified to	ASME IX:2023				
Stamp Number	DYNO 001			WPS Number	WPS SA304L				
Employer	Dynamic Options			Job Knowledge	Not Tested				
Test Date	06-Oct-2023			Test/Production	Test				

Base Metals (QW-403)									
Base Metals	Form	Specification, Alloy	P #	Gr. #	UNS #	NPS/DN, mm	Dia, mm	Sch.	Thickness, mm
Steel & Steel Alloys	Pipe	SA312-TP304L	8	1	S30403	80	88.9	80S	7.62
Steel & Steel Alloys	Pipe	SA312-TP304L	8	1	S30403	80	88.9	80S	7.62

Joint Details (QW-350)									
Welding Variables	Actual Values					Range Qualified			
Joint Type	Pipe - Pipe - Groove					Groove and Fillet welds			
Base metals P-No. to P-No.	P-No.8 to P-No.8					P-No. 1 - 15F; 34 & 41 - 49			
Diameter, mm	88.9 O/D					73 - Unlimited (groove); No limit (fillet)			
Thickness, mm	5.62					Please refer the deposit thickness values for groove welds. No limit for fillet welds			

Variables	Actual Values			Range Qualified		
Welding Process	GTAW			GTAW		
Type	Manual			Manual, Semi-automatic		
Backing (Metal, Weld Metal)	Without			Without		
Spec. No. (SFA)	5.9					
AWS No. (Class)	A5.9					
Filler Metal F-Number	6			F6		
Filler Metal A-Number	8					
Consumable Insert	Without			Without		
Filler Metal Product Form	Solid			Solid or metal cored		
Weld Deposit Thickness, mm	7.621			1.5 - 15.24		
Number of Layers Deposited	3					
Type of Fuel Gas						
Gas Backing	With			With		
Transfer Mode						
Current, Polarity	DCEN			DCEN		
Position	6G			All		
Groove - Plate				All		
Groove - Pipe > 610 mm O.D.				All		
Groove - Pipe 73 - 610 mm O.D.				All		
Fillet - Plate				All		
Fillet - Pipe > 610 mm O.D.				All		
Fillet - Pipe 73 - 610 mm O.D.				All		
Fillet - Pipe 25 - 73 mm O.D.				All		
Fillet - Pipe < 25 mm O.D.				All		
Vertical Progression	Uphill			Uphill		

Test Methods	Test Result	Test Report
Visual Examination per QW-302.4	Performed and Acceptable	
1 face bend test - ref. QW-161.2	Not tested	
1 root bend test - ref. QW-161.3	Not tested	
Radiographic examination Cl. QW-302.2	Performed and Acceptable	RT Report 14825/23/03.pdf
Ultrasonic examination Cl. QW-302.2	Not tested	

CERTIFICATION				
Test Date	06-Oct-2023	Specification	ASME IX:2023	
Requalification?	No	Test Location	Shop	
Place of Testing	Shop	Weather	good	
Date Issued	25-Feb-2024	Ambient Temp.	20 °C	
Notes from testing: -		Authorization notes: -		

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We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of Section IX of the ASME BOILER AND PRESSURE VESSEL CODE 2023 edition.

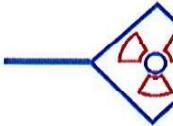
R.Hilder IPE 042/CP PV 410 PR TECH ENG 201170327	Digital signature Examined by - Rodger Hilder Examined on - 06-OCT- 2023 Guild Moore & Hilder cc				
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ATTACHMENTS

IND-NDT c.c.



Vat No: 4770167569
NDT SERVICES

Reg. No. 1998/013860/23

P.O.BOX 4765
Kempton Park 1620
Tel No. (011) 391-1290/1518
Fax: (011) 972-3168

Offices & Laboratories – 42 Quinine Street, Glen Marais X 1, 1620

RADIOGRAPHIC EXAMINATION REPORT

CLIENT: GMH VENDOR: GMH

ORDER No. 0000324 REPORT No: 14825/23/03 DATE: 2023/10/16

EXAMINATION LOCATION: IND-NDT LABS					JOB NR:---		
COMPONENT DESCRIPTION: TEST PLATES / PIPES FOR DYNAMIC OPTIONS							
DRG NUMBER: REFER TO VENDOR DRW NO.				MATERIAL: DESCRIPTION BELOW			
OD: VARIOUS				EXTENT OF EXAMINATION: 100%			
BEFORE P.W.H.T. N/A				AFTER P.W.H.T. N/A			
TECHNICAL DATA					SPECIFICATION DETAILS		
X-RAY	KV	N/A	MA	N/A	WELDING TYPE:		
GAMMA RAY	CURIES: 32ci				CODE OF MANUFACTURE:		
EXPOSURE TIME: 1min 25sec					ASME IX 2023		
FFD/SFD: 89mm					EXAMINATION PROCEDURE:		
IQI: 10 fe en					IND/WI/RT-02 REV 02 2019		
TECHNIQUE No.: DWSI					ACCEPTANCE CRITERIA:		
FILM AND SCREENS: PB SCREENS 0.125					ASME IX 2023		
WELD No.:	POS	SENS	DENS	WELDER	DEFECTS e/ee ne	RESULTS	REMARKS
TP 11	0-10	2%	2-3	A. GUVAKUVA	e	ee	
310S	10-20	2%	2-3		e	ee	
3"	20-0	2%	2-3		e	ee	
SCH40S							
TP 12	0-10	2%	2-3	J. NKUNA	e	ee	
310S	10-20	2%	2-3		F	ee	
3"	20-0	2%	2-3		F	ee	
SCH40S							
TP 13	0-10	2%	2-3	C. RATAU	F	ee	
310S	10-20	2%	2-3	7510165853087	F	ee	
3"	20-0	2%	2-3		e	ee	
SCH40S							
TP 14	0-10	2%	2-3	C. RATAU	Aa	ee	
3"	10-20	2%	2-3	7510165853087	e	ee	
SCH40	20-0	2%	2-3		e	ee	
SCH40							
TP 15	0-10	2%	2-3	A. GUVAKUVA	e	ee	
304L	10-20	2%	2-3		e	ee	
3"	20-0	2%	2-3		e	ee	
SCH80							
TP 16	0-10	2%	2-3	A. GUVAKUVA	e	ee	
304L	10-20	2%	2-3		e	ee	
3"	20-0	2%	2-3		e	ee	
SCH40							
e - No Visible defects F - Undercut FF - Obvious film							
ee - Acceptable defects B - Slag inclusions D - Incomplete penetration							
ne - Unacceptable defects Aa - Porosity Bg - Slag lines							
A - Gas bubbles Ag - Worm Holes C - Lack of Fusion							
E - Cracks Ba - Inclusions any shape and direction							
Ea - Longitudinal Cracks EG - Transverse cracks							
TECHNICIAN: DA BENNIE					INSP. AUTHORITY		
SNT-TC-1A (LEVELII)					DATE:		
DATE: 2023/10/16							