


# WELDER PERFORMANCE QUALIFICATION (WPQ)

## Guild Moore & Hilder cc - Dynamic Options Engineering & Fabrications



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



Name	ARTHUR GUVAKUYA	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 7 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	<a href="#">RT Report 14825/23/03.pdf</a>
Ultrasonic examination Cl. QW-302.2	Not tested	

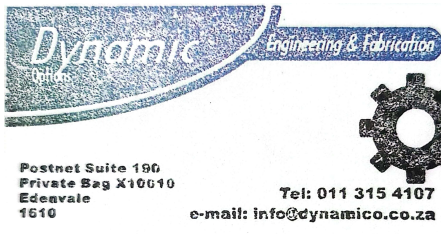
### CERTIFICATION

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: -	

**WELDER PERFORMANCE QUALIFICATION (WPQ)**  
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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.

<b>R.Hilder</b> 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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**APPROVED**

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## **ATTACHMENTS**

# IND-NDT c.c.



Vat No: 4770167569  
NDT SERVICES

Reg. No.1996/013860/23

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			
<b>TECHNICAL DATA</b>				<b>SPECIFICATION DETAILS</b>			
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	
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							
<div style="display: flex; justify-content: space-between;"> <div> <p>e - No Visible defects</p> <p>ee - Acceptable defects</p> <p>ne - Unacceptable defects</p> <p>A - Gas bubbles</p> <p>E - Cracks</p> <p>Ea - Longitudinal Cracks</p> </div> <div> <p>F - Undercut</p> <p>B - Slag inclusions</p> <p>Aa - Porosity</p> <p>Ag - Worm Holes</p> <p>Ba - Inclusions any shape and direction</p> <p>EG - Transverse cracks</p> </div> <div> <p>FF - Obvious film</p> <p>D - Incomplete penetration</p> <p>Bg - Slag lines</p> <p>C - Lack of Fusion</p> </div> </div>							
TECHNICIAN: DA BENNIE				INSP. AUTHORITY			
SNT-TC-1A (LEVEL II)				DATE:			
DATE: 2023/10/16							