



• COMPANY PROFILE



WHO ARE WE ?



- *Ocks Engineering kicked off with operations 03 September 2020.*



- We began rendering our services to small local business as we had only employed a small team and had minimum tools equipment and resources.
- During 2020 – 2021, Ocks Engineering was fortunate to be awarded with projects at PPC De Hoek ,Kathu Solar Energy Plant and later moved over to Tshipi Borwa Mine.
- During 2022 – 2023,we were astonished by the growth and huge achievements we have attained from projects completed at Sishen Moolman yard and we are still growing.

Our Services

- ***Specialized Welding***
- ***Fabrication Services***
- ***Contract Manufacturing***
- ***Lifting and Rigging Services***

We comply to quality management systems

ISO 9001 :2015 and ISO 14001

- ***Welding Procedure for 2" Pipe***
- ***Welding Procedure For Plate Weld 5mm to 32mm***
- ***All Welders are Qualified***
- ***Welding Procedure / OEM AWS***

Engineering Industry

Core Values

Ocks Engineering prides itself on operational excellence, which can be directly attributed to our highly competent and diverse workforce.

We are supported by local-based teams that include safety, quality and technical professionals.

We work hard to ensure we recruit the right person for the job, and through our individual performance management processes evaluate and develop the capability and competence of our people.

Our core values of excellence, innovation, integrity, leadership, respect and teamwork underpin the way we work together to provide our clients with efficient and safe operational services. We value our employees, not just for what they do, but for the way they do it and we demonstrate our appreciation through reward and recognition schemes.



RECRUITMENT





- **Safety**
 - We are committed to maintaining a safe and healthy environment in all our offices and on each of our projects.
- **Quality**
 - We are committed to providing high-quality commercial mechanical and marine services and strive for continuous improvement of our work.
- **Self-Regulation**
 - We are committed to comply with all mutually agreed project specific requirements
- **One Team**
 - A company of teamwork spirit; we put the team ahead of our personal success and commit to building its capability.
- **Customer Focus**
 - We ensure that customer requirements are understood and those are met. Top Management monitors and measures customer satisfaction and keeps pace in enhancing customer satisfaction level by providing Quality services on targeted delivery time





Zero Harm , Zero Accidents

Our commitment is always to
achieve Zero accidents by
working safely .



Our QHSE Policy & Strategic Objectives

The Management of Ocks Engineering places the utmost emphasis on Safety of Human Life and Protection of the Natural Environment. These concerns must "ALWAYS" take precedence over all commercial considerations. The company's main principles, goals and objectives:

At all times Ocks Engineering will conduct operations in compliance with Best Practice Standards and Health and Safety Regulations

Continuously improvement in safety management skills, including preparing for emergencies related both to Safety, Health and Environmental protection

Provision of safe practices and a safe system of work

Controlling occupational health hazards in our activities

Establish safeguards against all identified risks

Placing emphasis on human development and training Our employees as well as partners, contractors and their employees are ALWAYS required to comply with our Policy, Procedures and Work Instructions. We must all take the 6 necessary precautions to protect ourselves, our colleagues, work sites, equipment and the environment.

COMPANY ORGANOGRAM

16(1)
CEO
ESLENE OCKS

16(2)
DIRECTOR
SELAIMAN
OCKS

CR 8(7)
SUPERVISOR
YUSUF
MANUEL

CR 8(5)
HEALTH AND
SAFETY
OFFICER
JEANINE
CARELSE

QUALITY
MANAGER
ALEX
KNUTSEN



Our MISSION
Provide modern,
innovative and
sustainable solutions
to all our clients in
the Engineering
Industry.

To Create Job Opportunities
for local labor and growth
through training for the
youth.



CONTACT REFERENCES

PPC
DE
HOEK

Richard Barry
Site Manager
083 680 7692

PPC
DE
HOEK

Morne Wyngaard
Site Forman
072 449 6530

CONTACT REFERENCES

Sishen Moolmans Yard

- **Johan Potgieter**
- **072 610 7734**

Tshipi Borwa Mine

- **Werner**
- **072 508 4667**

Kathu Solar Plant (Energy)

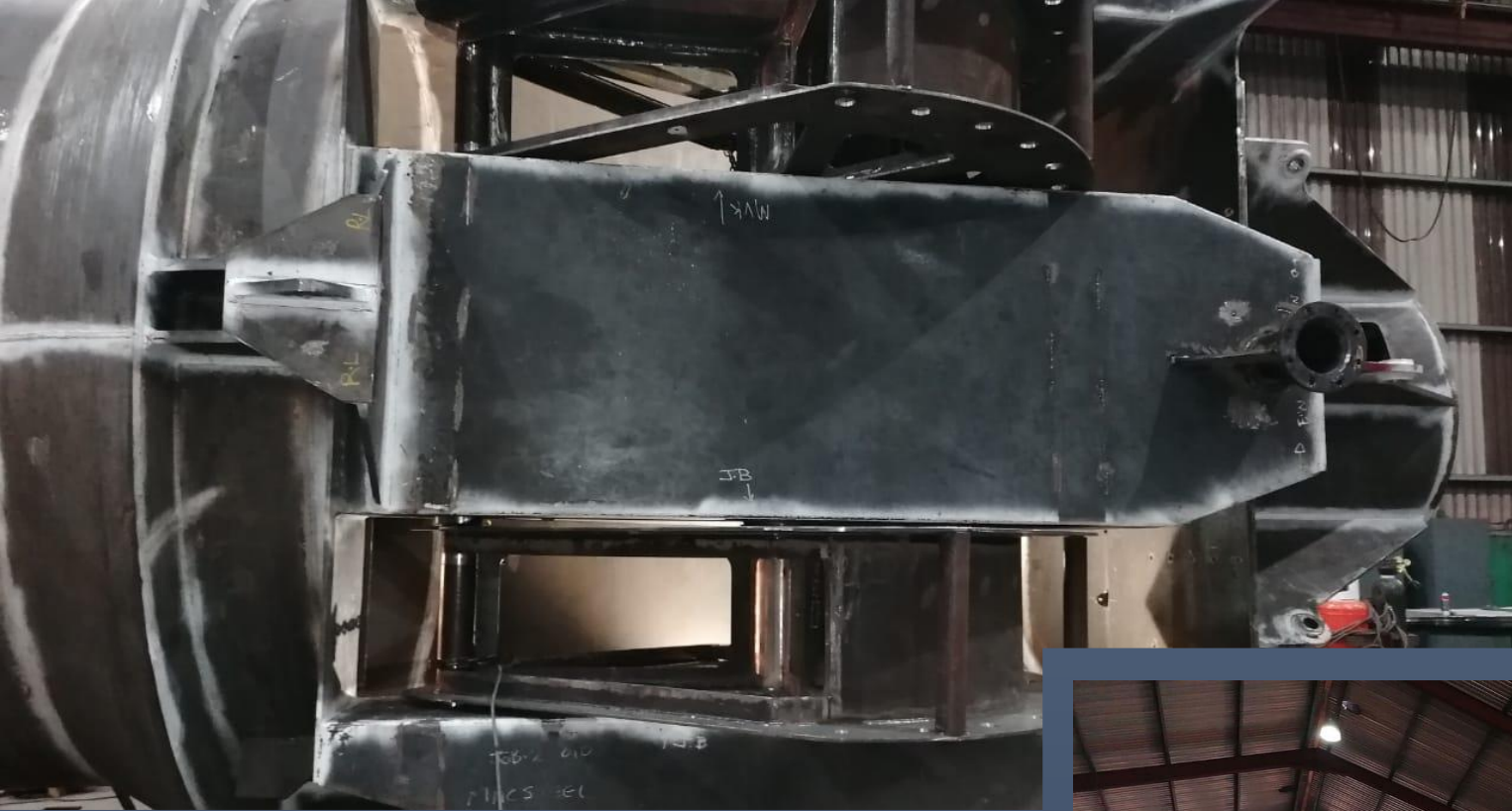
- **Bernard Ockhuis**
- **083 230 3688**

JOIN US THROUGH OUR PICTURE JOURNEY

by OCKS ENGINEERING



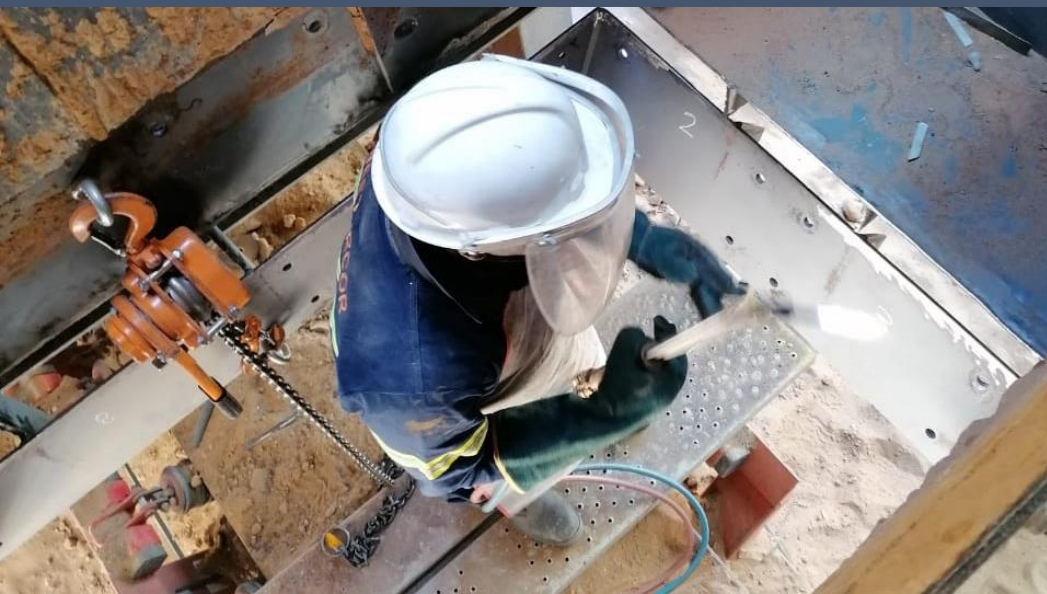
















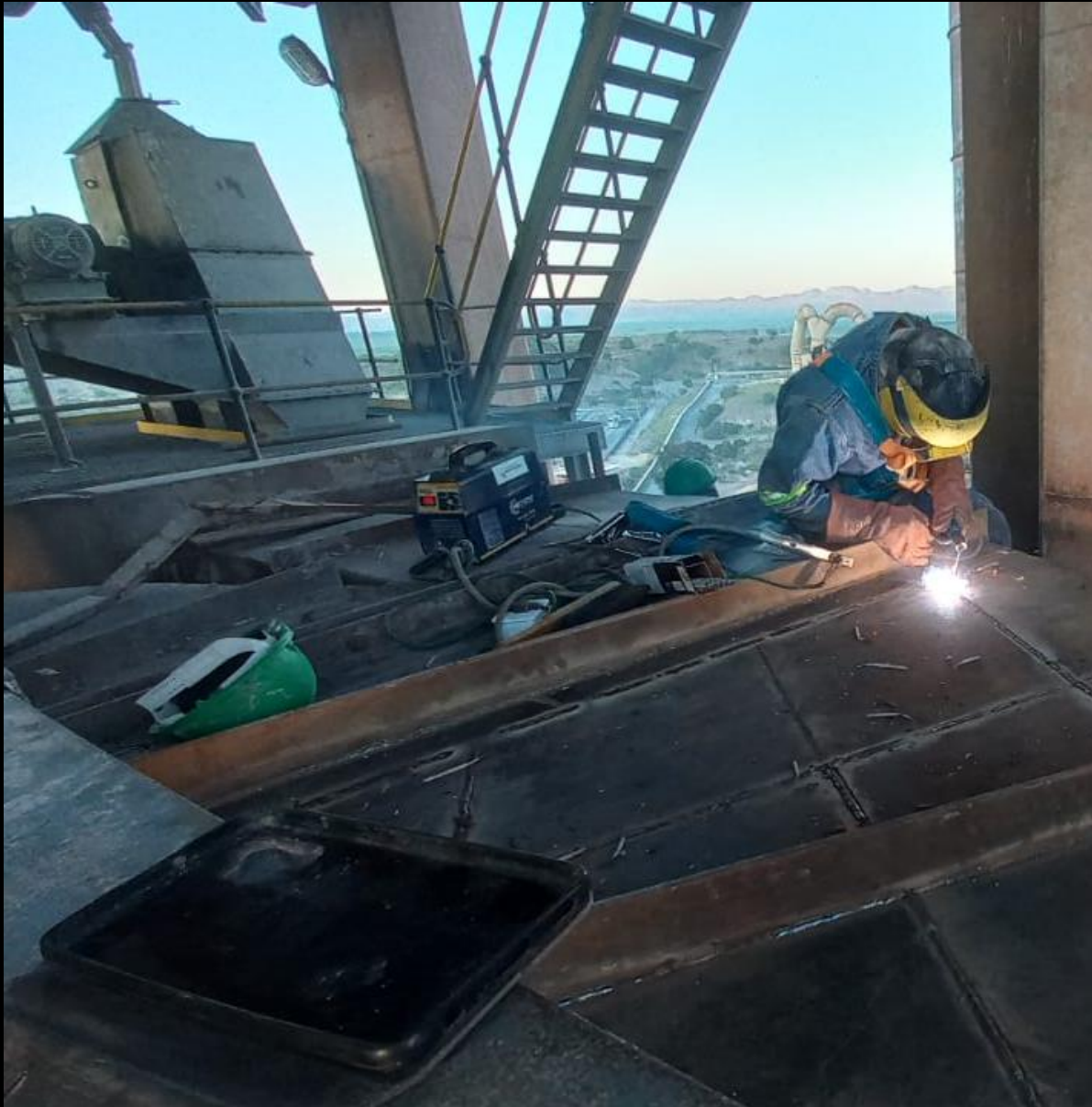














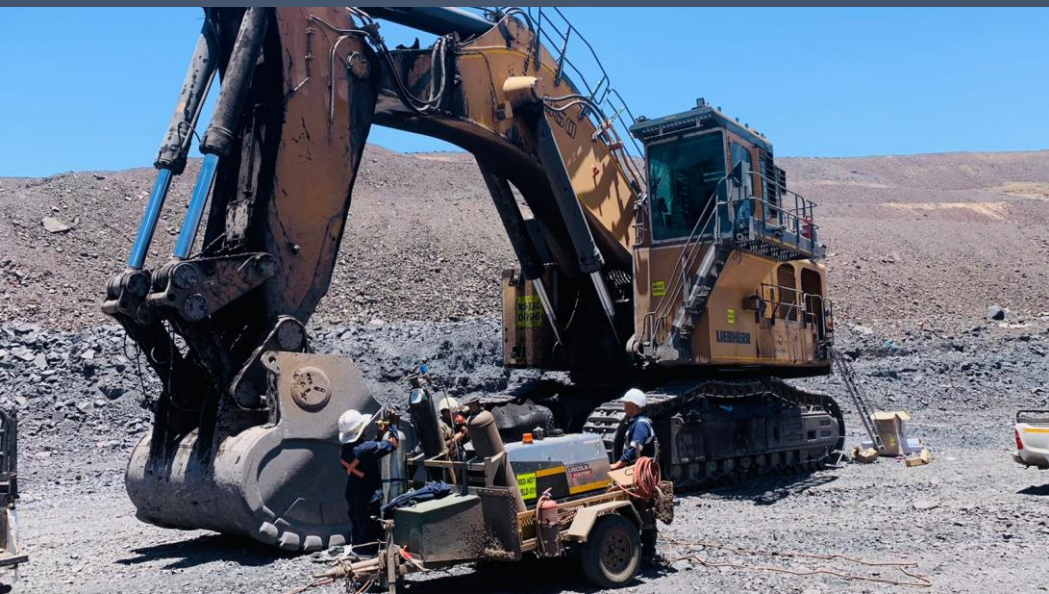
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MOOLMANS









Quality Management
Systems
ISO 9001 of 2015 and ISO
14001





Red Earth NDT (PTY) Ltd

Non-destructive Testing Since 2021

Reg no: 2021/132401/07
Vat no: 4590305928

P.O. Box 101
Springbok
8240

E-mail: Redearthndt@yahoo.com
Cell: 0828899884

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Kathu
8446

MS-RDT-170 Komatsu 785

MPI REPORT 284

Inspection visit Report 614

Date of examination	25-29/10/2022	Client	Moolmans
Job Type	MS-RDT-170 Komatsu 785 Chassis Repair Hrs:42 488	Place of Examination	Tshipe N'tle Mine Site
Magnetic Particle Method	Visible wet Continuous	Consumables	Ardrox 800/3 Black Magnetic ink Ardrox 8903W White Background
Current Flow	AC	Current	1.5 amps
Yoke	Model: Ky-2 S/N: 220079 200V	Field Strength	4.5 Kg Lifting Block
Extent of Examination	100% of weld + 25mm Randomly Selected	Either side of weld in	Heat affected zone (HAS)

Surface Condition	As Welded
Pre-Cleaning Method	Wire Brush
Surface Temp	28°C , 1200 Lx
Yoke spacing	50-110mm
Yoke Location	2 x 90° Criss-cross
Acceptance	AWS D1.1
Test Limitations	None
Test Procedure	RED-P-MT-001

Examination Results

Rework Welding was done on MS-RDT-170 Komatsu 785. 2x Cracks were noted Gouged out + 2x insert was replaced. After gouge work commenced MPI inspection was done to ensure there are no relevant rejectable indications left before rework welding started. All welded areas were pre heated and tested with calibrated thermometer before welding started. After welding was complete all welding was visually inspected followed an MPI Inspection.

No Relevant indication was noted at time of inspection. See Pictures Below

..... Report issued by Andre Jacobs MT 13/048/SNT	25-29/10/2022 Date
--	-----------------------



Inspection Results

Rework Welding was done on MS-RDT-167 Komatsu 785. 2x Cracks were noted Gouged out + 2x insert was replaced. See Pictures Below

After gouge work commenced MPI inspection was done to ensure there are no relevant rejectable indications left before rework welding started. All welded areas were pre heated and tested with calibrated thermometer before welding started.

1x Relevant Rejectable Indication were noted in root were grind out rewelded and retested. Photo 4,5,6

-Coded Welders Performed Rework Welding

- Yusuf Manuel
- Wesley Roberts
- Ryno Ferguson
- JC Carstens

After welding was complete all welding was visually inspected followed an MPI Inspection.

No Relevant indication was noted at time of Final inspection. See Pictures Below

Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11



Photo 12

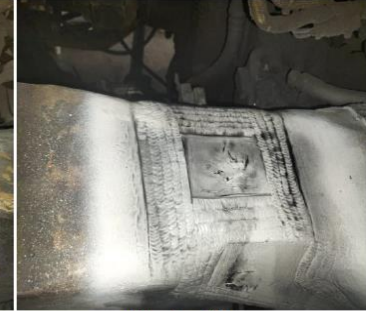


Photo 13



Photo 14



Photo 15



Report issued by
Andre Jacobs
MT 13/048/SNT

25-29/10/2022
Date

Inspection Results

Rework Welding was done on MS-RDT-274 Komatsu 785. 10x Cracks were noted Gouged out. After gouge work commenced MPI inspection was done to ensure there are no relevant rejectable indications left before rework welding started.

Welded areas were pre heated and tested with calibrated thermometer before welding started.

-Coded Welders Performed Rework Welding

- JC Carstens
- Ryno Loubsher

After welding was complete all welding was visually inspected followed an MPI Inspection. No Relevant indication was noted at time of inspection. Accepted
See Pictures Below

Photo 1



Photo 2



Photo 3



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11



Photo 9



Photo 13



Photo 14



Photo 15





Photo 19



Photo 20



Photo 21





Red Earth NDT (PTY) Ltd

Non-destructive Testing Since 2021

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Vat no: 4590305928

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8240

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Kathu
8446

MPI REPORT 286

Inspection visit Report 619

Date of examination	1-4/11/2022	Client	Moolmans
Job Type	MS-RDT-274 Komatsu Chassis Repair HRS: N/A	Place of Examination	Kathu Yard
Magnetic Particle Method	Visible wet Continuous	Consumables	Ardrox 800/3 Black Magnetic ink Ardrox 8903W White Background
Current Flow	AC	Current	1.5 amps
Yoke	Model: MY-2 S/N: 2205015 200V	Field Strength	4.5 Kg Lifting Block
Extent of Examination	100% of weld + 25mm	Either side of weld in	Heat affected zone [HAS]

Surface Condition	As Welded
Pre-Cleaning Method	Wire Brush-Remove Paint Stripper
Surface Temp	24°C , 1200 Lx
Yoke spacing	50-110mm
Yoke Location	2 x 90° Criss-cross
Acceptance	AWS D1.1
Test Limitations	None
Test Procedure	RED-P-MT-001

Examination Results

See Report Below

<p>.....</p> <p>Report issued by Andre Jacobs MT 13/048/SNT</p>	<p>1-4/11/2022 Date</p>
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MS-RDT-274
Komatsu 785





OCKS ENGINEERING
 Registration Number: 2020/699203/07

- **Address:** 3 Katdoring Street, Kathu, Northern Cape, 8446
- **Email:** selaiman001@gmail.com
- **Contact:** 064 754 3231

ISO 9001:2015 Quality Manual

Document Number: Man 0001

Revision Number: 0

Approvals

The signatures below certify that this quality manual has been reviewed and accepted and demonstrates that the signatories are aware of all the requirements contained herein and are committed to ensuring their provision.

	Name	Signature	Position	Date
Prepared by	D Pillay	<i>D Pillay</i>	Consultant	1 st September 2021
Reviewed by	S Oks	<i>S Oks</i>	Quality Representative	1 st September 2021
Approved by	E Ocks	<i>E Oks</i>	CEO	1 st September 2021

Revision of Quality Manual:

Date	Revision Number	Change that was done
01-09-2021	0	Original

AUTHENTICATION

Ocks Engineering

Registration Number: 2020/699203/07

Director(s): *Selaiman Ocks*
 CEO: *Esen Marilize Ocks*

• ISO 9001: 2015 QUALITY MANUAL

PIPE PROCEDURE QUALIFICATION RECORD

Item No.: _____
 Item No.: _____
 Item No.: _____
 Item No.: _____

General

Manufacturer : **OCKS ENGINEERING**
 WPS: OE 001/W Rev. 0
 WPS Revision: 0
 WPS Date: 2021-04-21
 Date: 2021-04-21

Welding Technique (QW 410)

Multiple Arc : Single Arc
 Electrode Spacing : None
 Multi Pass : Multipass
 Transfer Mode : N/A
 Bead : One sided weld
 Oscillation : N/A
 Weave : Weave 9 mm max.
 Peening : None
 Bead : 11 mm I/D
 Closed/out of Chamber : N/A
 Slag : N/A
 Tungsten Type : EWTh 2
 Processes : Grinding
 Tungsten Size : 2.4 mm

Base Metals (QW 403)

ASTM A249 Tp 321
 ASTM A249 Tp 321
 2.4 to 2.4 mm
 GTAW-None

Post Weld Heat Treatment (QW 407)

Temperature : N/A
 Cooling Rate : N/A
 Method : N/A
 Other : No PWHT

Welding Consumables (QW 404)

GTAW
 Manual
 SFA 5.9
 AWS ER347
 F6
 A8
 1.6 mm
 Yes
 None
 Solid
 Afrox ER347
 None
 None
 2.4 mm

Non-Destructive Examination (Ref)

100 % Acceptable RT WC21/02/25/1
 None
 None
 None
 100 % Acceptable both sides to ASME IX: QW 194

Destructive Testing

QW 460 (SGS Metlab 21-1165A)										
Width (mm)	Area (mm ²)	Gauge mm	Yield load kN	Max load kN	Extension mm	UTS Mpa	Yield point R _{p0.2} MPA	Elongation %	Fracture Location	
19.09	42.79	50.00	13.44	27.19	20.65	635	314	41%	Parent Metal	
19.03	37.33	50.00	12.66	25.17	15.45	674	339	31%	HAZ 1	

Shielding & Backing Gas (QW 405)

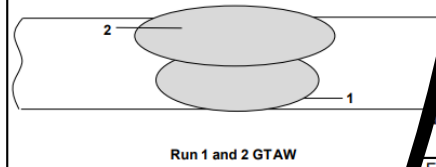
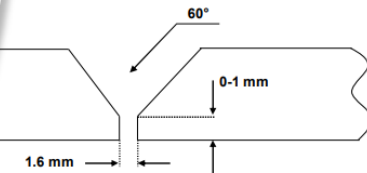
Type : Single - AWS A5.32 SG-A
 % Composition : 99.99% Argon - G-11.1 Grade C
 Flow Rate : 12 liter per minute
 Trailing Gas : None
 Backing Gas : 99.99% Argon - G-11.1 Grade C
 Flow Rate : 5 liter per minute

Pass & Location Sequence

Max. Run Type : GTAW 3.0 mm max.
 Gouge Method : None
 Interpass Clean : Wire brushed & Ground

W402) Single vee groove weld

Cut and ground
 As ground
 None



Electrical Characteristics (QW 409)

DC Power Source used - non pulsing | I & E Range : Nonwaveform used

Pass No.	Consumable Type	Filler Size (mm)	Weld Position	Amps (A)	Volts (V)	Speed (cm/min)	Prog.	I Type/ Polarity	Heat Input (Max) KJ/mm
1 and 2	ER347	1.60	F/HV/OH (6G)	51.4-51.7	7.7-9.1V	5.1-7.6	Uphill	DC -ve	0.52

Bend Angle: 180°		Former Size: 9.6 mm	
Result	Type	Results	Results
62.3(a) No visible defects	Root bend 1 QW 462.3(a)	No visible defects	No visible defects
62.3(a) No visible defects	Root bend 2 QW 462.3(a)	No visible defects	No visible defects

None	N/A	Test Temp.			N/A	
		Lateral Expansion				
Impact Strength (J)		Shear Fracture %				
(1)	(2)	(3)	Ave	(1)	(2)	(3)

Fracture: N/A
 Penetration in Parent Metal: Acceptable
 Macro Examination: None

Verify that the test welds were prepared, welded and tested satisfactorily to the best of our knowledge in accordance with the requirements of the code / testing standard indicated above.

MANUFACTURER


CERTIFIED BY

PLATE WELDING PROCEDURES SPECIFICATIONS

Ocks Engineering		PROCEDURE QUALIFICATION RECORD				RBI TECH					
P.O. No.:		Item:		Ref.:		Item No.:					
General											
Manufacturer	: Ocks Engineering	WPS Number:	OE/002G/W Rev.0								
PQR No.	: OE/002G.B1 Rev.0	WPS Revision:	0								
Welder (1)	: Yusuf Manuel	WPS Date:	19/07/2022								
Identity Number	: 940831 5123 089	Date:	01/09/2022								
Welder (2)	: None										
Identity Number	: N/A										
Code / Test Standard	: AWS D1.1 - 2020										
Base Metals											
Material 1	: EN10025-2 S355JR+AR	Group No.:	Unassigned								
Material 2	: EN10025-2 S355JR+AR	Group No.:	Unassigned								
Thickness	: 12.0 to 12.0 mm	Diameter:	None-plate material								
Backing	: FCAW - Yes	Backing Type:	Weld Metal								
Inserts/Retainers	: None										
Welding Consumables											
Process	: FCAW										
Process Type	: Semi-automatic										
Filler Specification	: A5.36										
Filler Classification No.	: AWS E71T-1										
Filler Composition	: C/Mn/Si										
Filler metal diameter	: 1.20mm										
Consumable Backing	: N/A										
Trade Name	: Atlantic CHT711										
Flux Trade Name	: N/A										
Flux Type	: Rutile										
Process Thickness	: 12.0 mm										
Preheat & Interpass Temperature				Shielding & Backing Gas							
Preheat Temperature	: 25°C minimum - Caused by tack weld	Type	: Carbon Dioxide								
Heat Method	: None	% Composition	: 100% CO2								
Temperature Check	: Contact Thermometer	Flow Rate	: 15 liter per minute								
Interpass Temperature	: 98.6°C maximum	Orifice Size	: 15 mm I/D								
Heat Area	: None	Trailing Gas	: None								
P.H. Maintenance	: N/A	Backing Gas	: None								
Other	: None	Flow Rate	: N/A								
Joint Design Single Vee Groove weld				Pass & Location Sequence							
Preparation Method	: Cut and Grind	Max. Run Thick	: 8.0 mm max.								
Initial Clean	: As ground	Gouge Method	: Grind								
Max. Run Type	: FCAW	Interpass Clean	: Grind								
				Run 1 to 9 FCAW - Side 1 Run 10 to 13 FCAW - Side 2							
Process	Pass No.	Consumable Type	Filler Size (mm)	Weld Position	Amps (A)	Volts (V)	Speed (cm/min)	Prog.	I Type/ Polarity	Heat Input (Max)	Other
FCAW	1 to 9	E71T-1	1.20	2G (H)	160-203	24-25	11.3-48	N/A	DC +ve	2.13	Side 1
FCAW	10 to 13	E71T-1	1.20	2G (H)	144-197	25-26	36.4-42.9	N/A	DC +ve	0.75	Side 2

Ocks Engineering		PROCEDURE QUALIFICATION RECORD				RBI TECH							
P.O. No.:		Item:		Ref.:		Item No.:							
Welding Technique													
Single/Multiple Arc	: Single Arc	Electrode Spacing	: None										
Single/Multi Pass	: Multi pass	Transfer Mode	: Globular Transfer										
Sides Welded	: Both side weld	Oscillation	: N/A										
String/Weave Bead	: String 8 mm max.	Peening	: None										
Filler Added	: N/A	CTWD	: 12-14 mm										
SAW Recrushed Slag	: N/A	Tungsten Type	: N/A										
Solid/Tubular Wire	: Tubular Wire	Tungsten Size	: N/A										
Post Weld Heat Treatment													
Heating Rate	: N/A	Cooling Rate	: N/A										
Holding Temperature	: N/A	Method	: N/A										
Holding Time	: N/A	Other	: No PWHT										
Non-Destructive Examination (Ref)													
Radiography (RT)	: WC22/07/17/13	Results	: Acceptable										
Ultrasonics (UT)	: None												
Magnetic Particle (MT)	: None												
Dye Penetrant (PT)	: None												
Visual (VT)	: 100 % Acceptable												
Destructive Testing													
Tensile Test:		Table 6.2 (VML - 4766/22/B1)											
Tensile Direction	Width (mm)	Thickness (mm)	Area (mm)	Gauge mm	Yield load kN	Max load kN	Yield Stress (Mpa)	UTS Mpa	ROA (%)	Elongation %	Fracture Location		
T1	20.37	10.61	216.13	50.00	99.72	121.67	461	563	51	27%	Parent Metal -Ductile		
T2	20.32	10.98	223.11	50.00	98.63	120.79	442	541	52	27%	Parent Metal -Ductile		
Round Tensile Test:		None											
Mark	Diameter (mm)	Area (mm ²)	Ultimate Load (KN)	Tensile Strength (Mpa)	Yield Strength (Mpa)	0.2 % Proof Stress (Mpa)	Elong %	Gauge Length (mm)	Reduction in area %				
-	-	-	-	-	-	-	-	-	-				
Bond test: Table 6.2 (VML - 4766/22/B1)				Bond Angle:		180°		Former Size: 50 mm					
Type	Result			Type	Results								
Side bend 1	No visible defects			Side bend 3	No visible defects								
Side bend 2	No visible defects			Side bend 4	No visible defects								
Impact Tests:		None		N/A		Test Temp.		N/A					
Mark	Location		Impact Strength (J)			Lateral Expansion			Shear Fracture %				
(1) (2) (3)			(1)	(2)	(3)	Ave		(1)	(2)	(3)	(1)	(2)	(3)
-	-		-	-	-	-		-	-		-	-	
Analysis:		None											
Fillet Weld Fracture:	N/A		Macro Examination :			N/A			N/A				
Appendices	: 1 off		Penetration in Parent Metal:			N/A			N/A				
Remarks													
None													
We certify that the test welds were prepared, welded and tested satisfactorily to the best of our knowledge in accordance with the requirements of the code / testing standard indicated above.													
MANUFACTURER						CERTIFIED BY							
Signature						Signature							
Date						Date							
RBI-TECH Job No.: GR15272						01/09/2022							
Page 4 of 11						LVUP068							


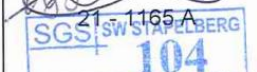
• TEST REPORT

		TEST REPORT IN ACCORDANCE WITH EN 10204 3.1 OF SA				
		Customer:	RBI Technical Solutions International	Material:	A	
Order no:		TBA	Consumable:		E	
Address:		PO Box 28	Description:		Ø	
		Warmer Beach	Joint design:		B	
RT NUMBER:		21 - 1165 A	Welder:		P	
Received:	Date Tested:	Date Issued:	Telephone:	021 556 6517	Welder ID:	8
2021	21 April 2021	21 April 2021	Email:	chris@rbi-tech.co.za	Job number:	G
			Attention:	Chris van Niekerk	Procedure Q	

MECHANICAL PROPERTIES		Test Temperature		20.4 °C	Tested on: INSTRON 400kN machine				Acceptat	
Weld direction	Thickness mm	Width mm	Pipe o/d mm	Area mm ²	Gauge mm	Yield load kN	Max load kN	Extension mm	Yield Stress R _{p0.2} MPa	UTS MPa
Elongation are for information only										
Distance to weld: 1	2.22	19.09	80.4	42.79	50.0	13.44	27.19	20.65	314	515 - min
Distance to weld: 2	1.94	19.03	80.4	37.33	50.0	12.66	25.17	15.45	339	635
										674

BEND TESTING			Test Temperature	20 °C
	Qty tested	Bend Angle	Former Ø	Result
Face Bend	2 off	180°	9.6 mm	Acceptable
Root Bend	2 off	180°	9.6 mm	Acceptable
Remark:				

Items marked thus are not included in the SANAS scope of accreditation for this laboratory.

Item conforms to the specifications provided	X	 
Item does not conform to the specs provided		
Comments provided for:		
Witnessed by:		
Signature:		
Witness BY: N/A		TECHNICAL SIGNATORY

SGS Metlab (Pty) Ltd | 57 Charl Cilliers Street c/o 9th Avenue Boksburg North PO Box 82532 Southdale 2135
 t +27(0) 11 917 5173/74 f +27(0) 11 917 0546 www.sgs.com Company Registration Number 19

QUALITY
ASSURANCE &
CONTROL
REFERENCE



Red Earth NDT (PTY) Ltd

Non-destructive Testing Since 2021

Reg no: 2021/132401/07
Vat no: 4590305928

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Kathu
8446

Let's Get to Work

- **OCKS ENGINEERING**
- Registration Number : 2020/699203/07
- Email: selaiman@ocksengineering.com
- <https://ocksengineering.co.za>
- Address: 3 Katdoring Street
Kathu
Northern Cape
- Contact: 064 754 3231

