

# Testing Report

(This Report is issued subject to the terms & conditions set out below)

**Customer** : PT. BALIKPAPAN PRATAMA TEKNIK  
**Address** : Jl. Letjend Suprpto RT. 16 No. 07  
Balikpapan 76133  
**Code and Reference** : BKI Rules  
**Test Method** : BS EN ISO 6892-1 : 2019  
**Object to be tested** : (as received)

**Job No** : A25258  
**No.** : HT/BTM/0525/0235  
**Page (s)** : 1 of 6  
**Date Received** : 17 May 2025  
**Date Tested** : 20 May 2025  
**Sample Marking** : 05BPT-01

One welded carbon steel pipe test samples, size: Diameter 8" Sch 60 (10.3 mm thickness), Material spec: ASTM A53/A106, WPS No: WPS-003/BPT/SAW/2025, PQR No: PQR-003/BPT/SAW/2025, welding process: SAW, position: 6G, for Welding Procedure Specification Test.

**Type of Test** : Reduced Section Tension Test  
**Environment Temp** : 25.2 °C  
**Sample Orientation** : Transverse

Test Specimen No	T1	T2
Measured Thickness (mm)	10.1	10.1
Measured Width (mm)	20	20
Effective Area (mm <sup>2</sup> )	200	198
Ultimate Tensile Load (kN)	96.79	95.91
Ultimate Tensile Strength (N/mm <sup>2</sup> )	483	485
Location of Failure	Base Metal	Base Metal
Type of Failure	Ductile	Ductile

**Testing Machine Used** : INSTRON UNIVERSAL TESTING MACHINE, S/N: 600DXR9024  
Model: 600DX-C3A-G7F  
**Remarks** : --  
**Test Conducted by** : Jack Fernandes, A.Md.T  
**Witness By** :

Approved Signatory



Suhadi, ST  
Laboratory Manager

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<b>Code and Reference</b>	: BKI Rules	<b>Page (s)</b>	: 2 of 6
<b>Test Method</b>	: BS EN ISO 5173:2011	<b>Date Received</b>	: 17 May 2025
<b>Object to be tested</b>	: (as received)	<b>Date Tested</b>	: 20 May 2025
		<b>Sample Marking</b>	: 05BPT-01

One welded carbon steel pipe test samples, size: Diameter 8" Sch 60 (10.3 mm thickness), Material spec: ASTM A53/A106, WPS No: WPS-003/BPT/SMAW/2025, PQR No: PQR-003/BPT/SMAW/2025, welding process: SMAW, position: 6G, for Welding Procedure Specification Test.

**Type of Test** : Bending Test (Transverse Specimen)

<b>Test Temperature</b>	: 25.2 °C		
<b>Test Specimen Width</b>	: 10 mm	<b>Test Specimen Thickness</b>	: 10.3 mm
<b>Former Diameter</b>	: 40 mm	<b>Bend Angle</b>	: 180 Degree
<b>Shoulder Distance</b>	: 63 mm		

Specimen No	Type of Bend	Observation	Result
SB1	Side Bend	No discontinuities was observed	Accepted
SB2	Side Bend	No discontinuities was observed	Accepted
SB3	Side Bend	No discontinuities was observed	Accepted
SB4	Side Bend	No discontinuities was observed	Accepted

**Testing Machine Used** : Motor Pump Bend Test Machine, Serial No: 2906AN19402, Model No: A1000PSI/700BAR  
**Remark** : --  
**Test Conducted by** : Yudirman. Amd  
**Witness By** :

Approved Signatory



Suhadi, ST  
Laboratory Manager

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## Testing Report

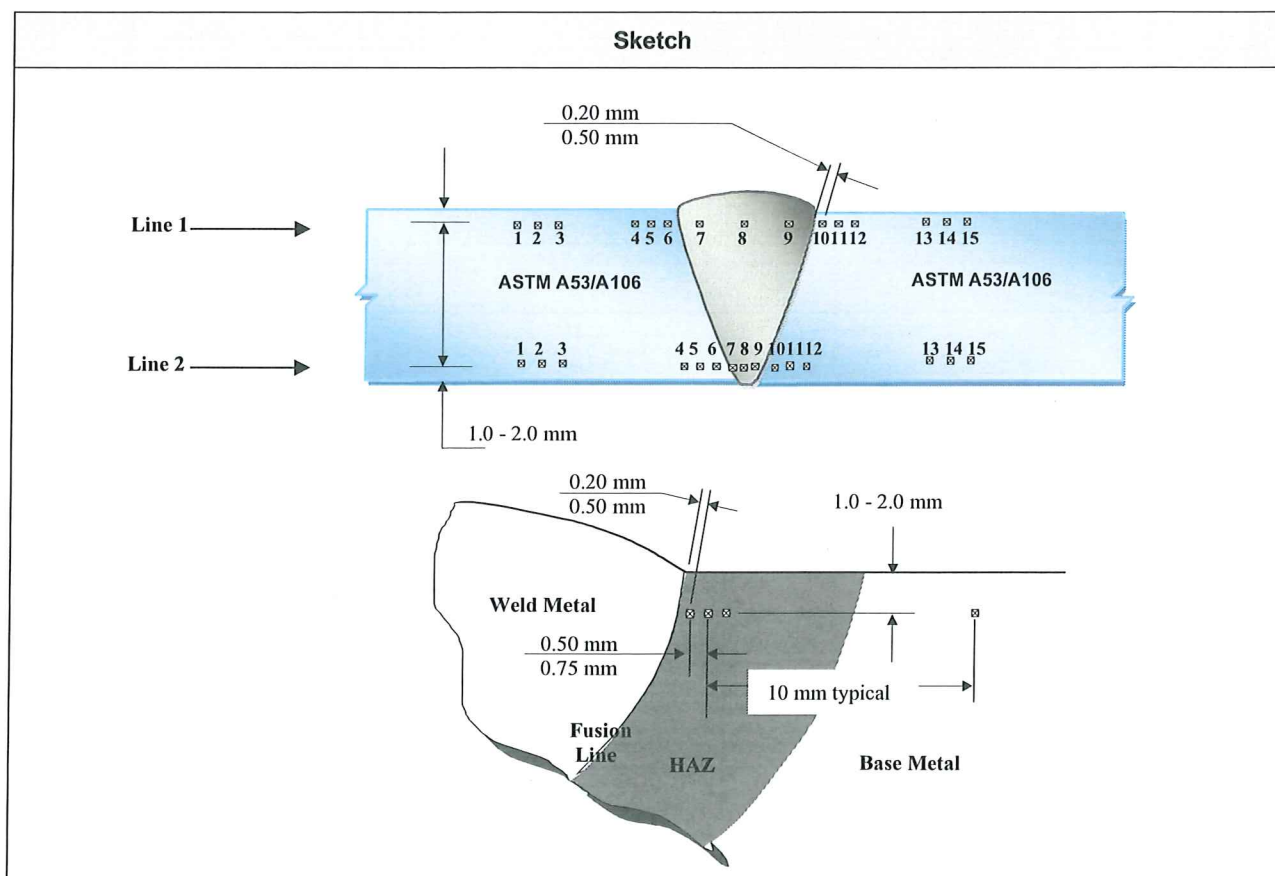
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**Address** : Jl. Letjend Suprpto RT. 16 No. 07  
Balikpapan 76133  
**Code and Reference** : BKI Rules  
**Test Method** : BS EN ISO 6507-1 : 2018  
**Object to be tested** : (as received)

**Job No** : A25258  
**No.** : HT/BTM/0525/0235  
**Page (s)** : 3 of 6  
**Date Received** : 17 May 2025  
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**Sample Marking** : 05BPT-01

One welded carbon steel pipe test samples, size: Diameter 8" Sch 60 (10.3 mm thickness), Material spec: ASTM A53/A106, WPS No: WPS-003/BPT/SAW/2025, PQR No: PQR-003/BPT/SAW/2025, welding process: SAW, position: 6G, for Welding Procedure Specification Test.

**Type of Test** : Vickers Hardness Number (HV) Load Test, 10 Kgf



Approved Signatory



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Laboratory Manager

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<b>Code and Reference</b>	: BKI Rules	<b>Page (s)</b>	: 4 of 6
<b>Test Method</b>	: BS EN ISO 6507-1 : 2018	<b>Date Received</b>	: 17 May 2025
<b>Object to be tested</b>	: (as received)	<b>Date Tested</b>	: 20 May 2025
		<b>Sample Marking</b>	: 05BPT-01

One welded carbon steel pipe test samples, size: Diameter 8" Sch 60 (10.3 mm thickness), Material spec: ASTM A53/A106, WPS No: WPS-003/BPT/SAW/2025, PQR No: PQR-003/BPT/SAW/2025, welding process: SAW, position: 6G, for Welding Procedure Specification Test.

**Type of Test** : Vickers Hardness Number (HV) Load Test, 10 Kgf  
**Location** : --

Sample Identification	Material Specification	Test Location	Vickers Hardness Number (HV) Test Load Applied, 10 Kgf					
			Line 1		Line 2		Line 3	
			No	Result	No	Result	No	Result
PQR No: PQR-003/BPT/SMAW/2025	ASTM A53/A106	Base Metal	1	119	1	103	1	-
			2	109	2	115	2	-
			3	112	3	110	3	-
		HAZ	4	133	4	135	4	-
			5	140	5	137	5	-
			6	130	6	131	6	-
	Weld Metal		7	121	7	117	7	-
			8	118	8	121	8	-
			9	115	9	120	9	-
	ASTM A53/A106	HAZ	10	135	10	138	10	-
			11	138	11	141	11	-
			12	141	12	142	12	-
		Base Metal	13	112	13	104	13	-
			14	109	14	116	14	-
			15	118	15	113	15	-

**Testing Machine Used** : The Zwick Roell Hardness Testing Machine, Model DuraScan 70 G5, S/N: 251917  
**Remark** : Has been verified using Euro Products Limited Standardized Blocks  
(Identity No: EP18202924, EP18203976 and EP18204217)  
**Test Conducted by** : Rahmad Musliadi, A.Md.T  
**Witness By** :

Approved Signatory



Suhadi, ST  
Laboratory Manager

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**Address** : Jl. Letjend Suprpto RT. 16 No. 07  
Balikpapan 76133  
**Code and Reference** : BKI Rules  
**Test Method** : BS EN ISO 17639 : 2013  
**Object to be tested** : (as received)

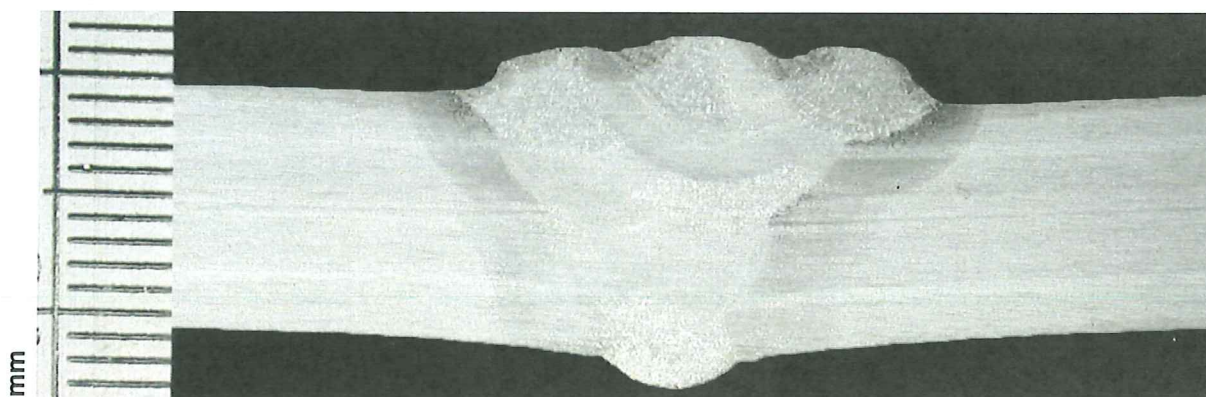
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**Type of Test** : Macro 10X Examination and Photo

Specimen No	Thickness (mm)	Width (mm)	Result
PQR No: PQR-003/BPT/SMAW/2025	10.3	10	Accepted

## Macro- Photography



**Remark** : --  
**Test Conducted by** : Yudirman, Amd  
**Witness By** :

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<b>Code and Reference</b>	: BKI Rules	<b>Page (s)</b>	: 6 of 6
<b>Test Method</b>	: BS EN ISO 148-1 : 2016	<b>Date Received</b>	: 17 May 2025
<b>Object to be tested</b>	: (as received)	<b>Date Tested</b>	: 20 May 2025
		<b>Sample Marking</b>	: 05BPT-01

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<b>Type of Test</b>	: Charpy V-Notch Impact Test (Welding Joint Section)
<b>Environment Temp</b>	: 25.4 °C
<b>Sample Orientation</b>	: Transverse

V-Notch Position	Specimen Size (mm)	Test Temp (°C)	Impact Value Specimen (J)			Average (J)
			1	2	3	
WCL	7.5x10x55	0	81	80	81	81
FL	7.5x10x55	0	98	92	95	95
FL+2 mm	7.5x10x55	0	91	89	91	90

<b>Testing Machine Used</b>	: ZWICK ROELL CHARPY TESTING MACHINE, S/N: 212670 : 2013
<b>Remarks</b>	: --
<b>Test Conducted by</b>	: Nurhasan. ST
<b>Witness By</b>	:

Approved Signatory

  
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Laboratory Manager**Term & Conditions**

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