

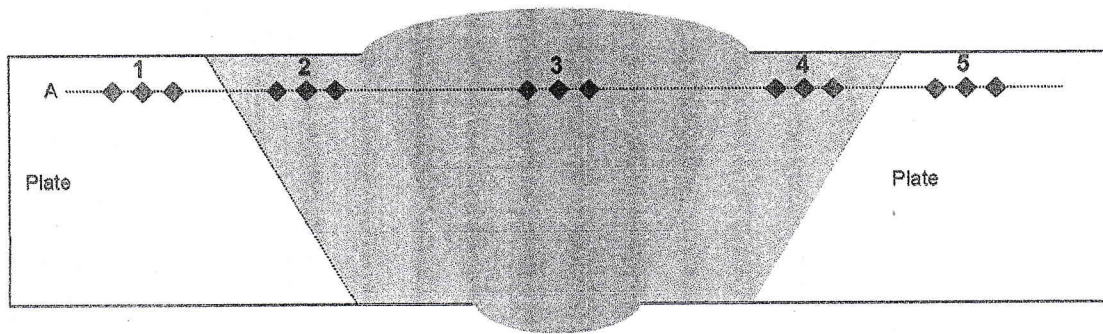
REPORT ON TEST RESULT NO. :

/IT2.4.I.1/PM.05.02/2019

Page 1 of 1

DATE : 26 - 7 - 2010
ORDER FROM : Budi
TEST STANDARD :
WPQT NO. : 21 (T P I I)
JOINT DESIGN : Butt Welded
MATERIAL SPEC. : Plate
P.NO. Gr.NO. :
THICKNESS :
WELDING PROCESS :
TEST POSITION :
WELDER NAME :

1. HARDNESS TEST



Location	Vickers Hardness Number (HV. 1)									
	Base Metal		H A Z		Weld Metal		H A Z		Base Metal	
A	1		2		3		4		5	
Hardness Value	84,2		85,9		88,43					
Average										

Equipment: Micro Vickers Hardness Tester, Model: TH 712, Time Group INC, China

NOTES : This report is valid only for the specimen tested on the Laboratory of Ships Strength and Construction

Witnessed by :

Tester of the Laboratory
Ships Strength and Construction



AKH. FAIRL H.

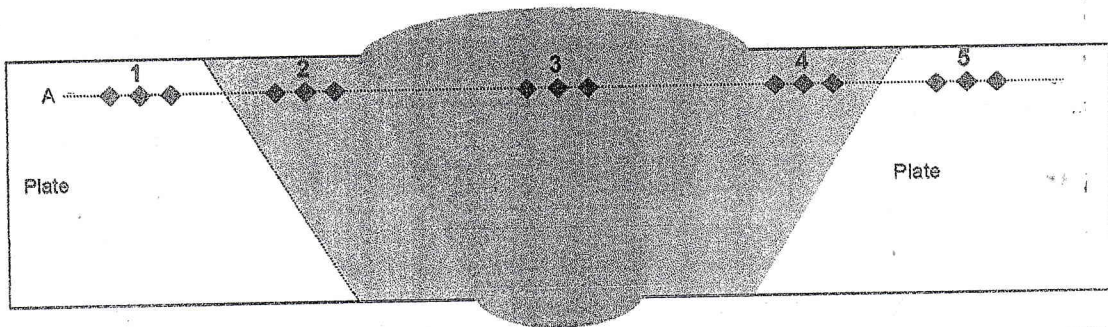
REPORT ON TEST RESULT NO. :

/IT2.4.I.1/PM.05.02/2019

Page 1 of 1

DATE : 26-7-2020
 ORDER FROM : Buah
 TEST STANDARD : 7.2 CTP I)
 WPQT NO. :
 JOINT DESIGN : Butt Welded
 MATERIAL SPEC. : Plate
 P.NO. Gr.NO. :
 THICKNESS :
 WELDING PROCESS :
 TEST POSITION :
 WELDER NAME :

1. HARDNESS TEST



Location	Vickers Hardness Number (HV. 1)									
	Base Metal		HAZ		Weld Metal		HAZ		Base Metal	
A	1		2		3		4		5	
Hardness Value	85,53		90,84		95,55					
Average										

Equipment: Micro Vickers Hardness Tester, Model: TH 712, Time Group INC, China

NOTES : This report is valid only for the specimen tested on the Laboratory of Ships Strength and Construction

Witnessed by :

Tester of the Laboratory
Ships Strength and Construction



Akh. FAIRIL N.

REPORT ON TEST RESULT NO. :

/IT2.4.I.1/PM.05.02/20

DATE : 24-7-2020
ORDER FROM : Muhammad Fadil
TEST STANDARD : ASME SEC. IX / AWS.D1.1 / BK1 / LR / DNV-GL
WPQT NO. :
PQR NO. :
JOINT DESIGN : Butt Joint
MATERIAL SPEC. : Plate Pipe
THICKNESS / DIA. : 10 mm + 6 mm
WELDING PROCESS :
TEST POSITION :
WELDER NAME :
ELECTRODE :

1. TENSION TEST

NO	CODE MATERIAL	SPECIFICATION SAMPLE				TENSILE TEST RESULTS		
		WIDTH	THICK	DIA.	CSA	YIELD STRENGTH	ULTIMATE STRENGTH	BREAKING
		(mm)	(mm)	(mm)	(mm ²)	MPa	MPa	
1	TPCI	25,11	5,86	—	147,15	163,10	180,09	Weld Metal
2	TPCII	25,26	4,99	—	126,05	202,30	220,15	Weld Metal
3	TPNCI	24,98	5,84	—	145,88	154,24	167,95	Weld Metal
4	TPNCII	25,29	5,84	—	147,69	162,50	182,82	Weld Metal
NO	F. YIELD				F. ULTIMATE			
	KN	N		KN	N			
1	24			26,5				
2	25,5			27,75				
3	22,5			24,5				
4	24			27				

II. BENDING TEST , ANGLE OF BEND : 0° DIAMETER of FORMER : mm


NO	SAMPLE MARK	IDENTIFICATION	WIDTH (mm)	THICK. (mm)	TEST RESULTS	
					OPEN DEFECT (mm)	CRACK (mm)

Witnessed by :

The Laboratory Of Ships Strength And Construction
FT. Kelautan ITS

Tester

1. _____
2. _____
3. _____
4. _____
5. _____





ITS
Institut
Teknologi
Sepuluh Nopember

LABORATORIUM KONSTRUKSI DAN KEKUATAN KAPAL
DEPARTEMEN TEKNIK PERKAPALAN
FAKULTAS TEKNOLOGI KELAUTAN
INSTITUT TEKNOLOGI SEPULUH NOPEMBER
Gedung W - Lantai 1, Kampus ITS Sukolilo, Surabaya 60111
Telp./Fax. 031 599 4933, Email: labkonjtp@gmail.com

REPORT ON TEST RESULT NO. :

/IT2.4.I.1/PM.05.02/20

DATE : 24 - 7 - 2020
ORDER FROM : Budi Setiawan
TEST STANDARD : ASME SEC.IX / AWS.D1.1 (BKI) LR / DNV-GL
WPQT NO. :
PQR NO. :
JOINT DESIGN : Butt Joint
MATERIAL SPEC. : Plate / Pipe
THICKNESS / DIA. : 10 mm
WELDING PROCESS :
TEST POSITION :
WELDER NAME :
ELECTRODE :

1. TENSION TEST

NO	CODE MATERIAL	SPECIFICATION SAMPLE				TENSILE TEST RESULTS		
		WIDTH	THICK	DIA.	CSA	YIELD STRENGTH	ULTIMATE STRENGTH	BREAKING
		(mm)	(mm)	(mm)	(mm ²)	MPa	MPa	
1	TP 1	28,23	10,62	-	267,94	179,15	210,87	Weld Metal
2	TP 2	28,33	10,37	-	262,67	156,09	177,03	Weld Metal.

NO	F. YIELD		F. ULTIMATE	
	KN	N	KN	N
1	98		56,5	
2	91		46,5	

II. BENDING TEST , ANGLE OF BEND : 0° DIAMETER of FORMER : mm

NO	SAMPLE MARK	IDENTIFICATION	WIDTH (mm)	THICK (mm)	TEST RESULTS	
					OPEN DEFECT (mm)	CRACK (mm)

Witnessed by : _____

The Laboratory Of Ships Strength And Construction
FT. Kelautan ITS

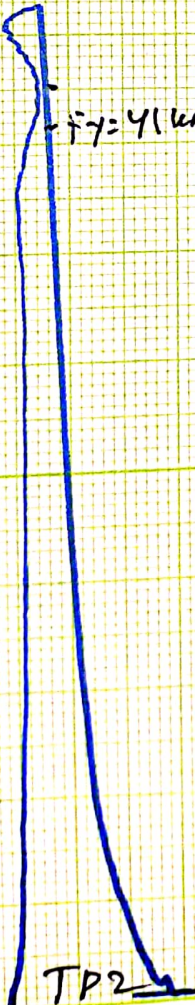
Tester

1. _____
2. _____
3. _____
4. _____
5. _____

(Signature)

$f_u = 46,5 \text{ kN}$

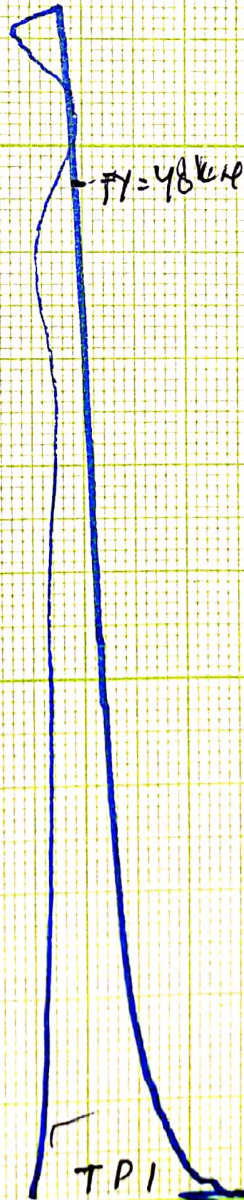
$f_y = 41 \text{ kN}$



TP2

$f_u = 56,5 \text{ kN}$

$f_y = 48 \text{ kN}$



TP1

