



Our Ref. : NT/103334/18-08

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Report No: NDT/RT/180310-07/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Tunas Asal Sdn. Bhd.	Procedure No:	NT/RT/ASME REV 6.0
Project :	GPS 3300 869/2017	IQI type :	ASME 1A
Material:	SA 240-316/316L To SA SA 240-316/316L	Film Manufacturer/Type :	FUJI 50(class I)
Welding Process :	GTAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.20mm(2 wires visible)
Acceptance Code:	ASME Section VIII Div.1 ; 2015	Source to Object Distance :	355.5mm
Examination Date:	02 April 2018	Source Side of Object to Film Distance:	(6+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
869/2017 SN-3412/2017 Vessel Purifier								
CW-2-S1 TASB - 925	9	3	711	6	0 - 1	NRI	Accept	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

Personnel Particulars

Radiographer : Emirsham - ASNT Lev. II

Interpreted & Evaluated By: M.Nazib - ASNT Level II

Date: 03 April 2018



Client Representative:

Name:

Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Tunas Asal Sdn. Bhd.	Procedure No:	NT/RT/ASME REV 6.0
Project :	GPS 3300 869/2017	IQI type :	ASME 1A
Material:	SA 240-316/316L To SA SA 240-316/316L	Film Manufacturer/Type :	FUJI 50(class I)
Welding Process :	GTAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.20mm(2 wires visible)
Acceptance Code:	ASME Section VIII Div.1 ; 2015	Source to Object Distance :	355.5mm
Examination Date:	02 April 2018	Source Side of Object to Film Distance:	(6+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
869/2017 SN-3413/2017 Vessel Purifier								
CW-2-S1 TASB - 925	9	3	711	6	0 - 1	NRI	Accept	
CW-2-S2 TASB - 925	9	3	711	6	0 - 1	NRI	Accept	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

Personnel Particulars

Radiographer : Emirsham - ASNT Lev. II
 Interpreted & Evaluated By: M.Nazib - ASNT Level II
 Date: 03 April 2018

Client Representative:
 Name:
 Date:





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Report No: NDT/RT/180310-05/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Tunas Asal Sdn. Bhd.	Procedure No:	NT/RT/ASME REV 6.0
Project :	GPS 3300 869/2017	IQI type :	ASME 1A
Material:	SA 240-316/316L To SA SA 240-316/316L	Film Manufacturer/Type :	FUJI 50(class I)
Welding Process :	GTAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.20mm(2 wires visible)
Acceptance Code:	ASME Section VIII Div.1 ; 2015	Source to Object Distance :	355.5mm
Examination Date:	02 April 2018	Source Side of Object to Film Distance:	(6+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
869/2017 SN-3410/2017 Vessel Purifier								
CW-2-S1 TASB - 925	9	3	711	6	0 - 1	Por	Accept	
CW-2-S2 TASB - 925	9	3	711	6	0 - 1	Uc / Sur	Accept	

End of Report

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : Undercut	Por : Porosity	WT : Weld Thickness
SI : Slag Inclusion	LP : Lack of Penetration	Con : Concavity	BT : Burn Through	RT : Reinforcement Thickness
LF : Lack of Fusion	EP : Excess Penetration	AR : Artifact	Sur : Surface	

Personnel Particulars

Radiographer : Emirsham - ASNT Lev. II

Interpreted & Evaluated By: M.Nazib - ASNT Level II

Date: 03 April 2018



Client Representative:

Name:

Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Tunas Asal Sdn. Bhd.	Procedure No:	NT/RT/ASME REV 6.0
Project :	GPS 3300 869/2017	IQI type :	ASME 1A
Material:	SA 240-316/316L To SA SA 240-316/316L	Film Manufacturer/Type :	FUJI 50(class I)
Welding Process :	GTAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.20mm(2 wires visible)
Acceptance Code:	ASME Section VIII Div.1 ; 2015	Source to Object Distance :	355.5mm
Examination Date:	02 April 2018	Source Side of Object to Film Distance:	(6+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
869/2017 SN-3411/2017 Vessel Purifier								
CW-2-S7 RS TASB - 925	9	3	711	6	0 - 1	Sur	Visual	
CW-2-S8 RS TASB - 925	9	3	711	6	0 - 1	Sur	Visual	

End of Report

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : Undercut	Por : Porosity	WT : Weld Thickness
SI : Slag Inclusion	LP : Lack of Penetration	Con : Concavity	BT : Burn Through	RT : Reinforcement Thickness
LF : Lack of Fusion	EP : Excess Penetration	AR : Artifact	Sur : Surface	

Personnel Particulars

Radiographer : Emirsham - ASNT Lev. II

Client Representative:

Interpreted & Evaluated By: M.Nazib - ASNT Level II

Name:

Date: 03 April 2018

Date:





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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Tunas Asal Sdn. Bhd.	Procedure No:	NT/RT/ASME REV 6.0
Project :	Vessel & HE 885/2017	IQI type :	ASME 1B
Material:	SA 240 Type 304/304L To SA 240 Type 304/304L	Film Manufacturer/Type :	FUJI 50(class I)
Welding Process :	FCAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME Section VIII Div.1 ; 2015	Source to Object Distance :	400mm
Examination Date:	02 April 2018	Source Side of Object to Film Distance:	(15/9+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
885/2017 SN-3515/2017 Reactor (6KLV8)								
CW-1-LW-1 TASB - 934	18 / 12	3	-	15 / 9	0 - 1	Inc	Reject	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

Personnel Particulars

Radiographer : Emirsham - ASNT Lev. II

Interpreted & Evaluated By: M.Nazib - ASNT Level II

Date: 03 April 2018



Client Representative:

Name:

Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Tunas Asal Sdn. Bhd.	Procedure No:	NT/RT/ASME REV 6.0
Project :	GPS 3300 869/2017	IQI type :	ASME 1A
Material:	SA 240-316/316L To SA SA 240-316/316L	Film Manufacturer/Type :	FUJI 50(class I)
Welding Process :	GTAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.20mm(2 wires visible)
Acceptance Code:	ASME Section VIII Div.1 ; 2015	Source to Object Distance :	355.5mm
Examination Date:	03 April 2018	Source Side of Object to Film Distance:	(6+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
869/2017 SN-3412/2017 Vessel Purifier								
CW-2-S4 TASB - 925	9	3	711	6	0 - 1	Sur	Accept	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

Personnel Particulars

Radiographer : Emirsham - ASNT Lev. II
 Interpreted & Evaluated By: M.Nazib - ASNT Level II
 Date: 04 April 2018



Client Representative:
 Name:
 Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Tunas Asal Sdn. Bhd.	Procedure No:	NT/RT/ASME REV 6.0
Project :	GPS 3300 869/2017	IQI type :	ASME 1A
Material:	SA 240-316/316L To SA SA 240-316/316L	Film Manufacturer/Type :	FUJI 50(class I)
Welding Process :	GTAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.20mm(2 wires visible)
Acceptance Code:	ASME Section VIII Div.1 ; 2015	Source to Object Distance :	355.5mm
Examination Date:	02 April 2018	Source Side of Object to Film Distance:	(6+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
869/2017 SN-3412/2017 Vessel Purifier								
CW-2-S3 TASB - 925	9	3	711	6	0 - 1	Sur	Accept	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

Personnel Particulars

Radiographer : Emirsham - ASNT Lev.
 Interpreted & Evaluated By: M.Nazib - ASNT Level I
 Date: 03 April 2018



Client Representative:
 Name:
 Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Tunas Asal Sdn. Bhd.	Procedure No:	NT/RT/ASME REV 6.0
Project :	GPS 3300 869/2017	IQI type :	ASME 1A
Material:	SA 240-316/316L To SA SA 240-316/316L	Film Manufacturer/Type :	FUJI 50(class I)
Welding Process :	GTAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.20mm(2 wires visible)
Acceptance Code:	ASME Section VIII Div.1 ; 2015	Source to Object Distance :	355.5mm
Examination Date:	03 April 2018	Source Side of Object to Film Distance:	(6+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
869/2017 SN-3412/2017 Vessel Purifier								
CW-2-S2 TASB - 925	9	3	711	6	0 - 1	Sur	Accept	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

Personnel Particulars

Radiographer :	Emirsham - ASNT Level 2	Client Representative:	
Interpreted & Evaluated By:	M.Nazib - ASNT Level 2	Name:	
Date:	04 April 2018	Date:	

