



Our Ref. : NT/103308/18-09

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Report No: NT/RT/180248-05/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	PMI Tech (Europe) B.V. Air Liquide	IQI type :	ASTM 1B
Material:	SA 516 GR 70	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(8+3)mm
Welding Process :	FCAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	21 March 2018	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
W/O:11796 Pressure Leaf PLH(D) Filter 1650/80/32 Tandem Model No: F-571002								
LW1/CW2 (W012)	11	3	-	8	0 - 1	NRI	Accept	
LW2 (W012)	11	3	-	8	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 - NDT Lev. II

Interpreted & Evaluated By: M.Nazib - NDT Lev.II

Date: 22 March 2018



Client Representative:

Name:

Date:



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Report No: NT/RT/180248-04/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	PMI Tech (Europe) B.V. Air Liquide	IQI type :	ASTM 1B
Material:	SA 516 GR 70	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 Sect VIII Div 1 , 2017 Edition	Source to Object Distance :	400mm
Examination Date:	21 March 2018	Source Side of Object to Film Distance:	(8+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
W/O:11796 Pressure Leaf PLH(D) Filter 1650/80/32 Tandem Model No: F-571001								
LW1/CW2 (W012)	11	3	-	8	0 - 1	Por	Accept	
CW2/LW2 (W012)	11	3	-	8	0 - 1	Por	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 - NDT Lev. II

Client Representative:

Interpreted & Evaluated By: M.Nazib - NDT Lev.II

Name:

Date: 22 March 2018

Date:





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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	PMI Tech (Europe) B.V. Air Liquide	IQI type :	ASTM 1B
Material:	SA 516 GR 70	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 Sect VIII Div 1, 2017 Edition	Source to Object Distance :	400mm
Examination Date:	21 March 2018	Source Side of Object to Film Distance:	(8+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
W/O:11796 Pressure Leaf PLH(D) Filter 1650/80/32 Tandem Model No: F-571002								
CW2/LW2 (W012)	11	3	-	8	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 - NDT Lev. II

Interpreted & Evaluated By: M.Nazib - NDT Lev.II

Date: 22 March 2018



Client Representative:

Name:

Date:



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Report No: NT/RT/180248-07/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	PMI Tech (Europe) B.V. Air Liquide	IQI type :	ASTM 1B
Material:	SA 516 GR 70	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 Sect VIII Div 1, 2017 Edition	Source to Object Distance :	400mm
Examination Date:	21 March 2018	Source Side of Object to Film Distance:	(8+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
W/O:11796 Pressure Leaf PLH(D) Filter 1650/80/32 Tandem Model No: F-571001								
LW2 (W012)	11	3	-	8	0 - 1	NRI	Debris	Remove

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 - NDT Lev. II	Client Representative:	
Interpreted & Evaluated By:	M.Nazib - NDT Lev.II	Name:	
Date:	22 March 2018	Date:	





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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	PMI Tech (Europe) B.V. Air Liquide	IQI type :	ASTM 1B
Material:	SA 516 GR 70	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 Sect VIII Div 1, 2017 Edition	Source to Object Distance :	400mm
Examination Date:	21 March 2018	Source Side of Object to Film Distance:	(8/10+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
W/O:11796 Pressure Leaf PLH(D) Filter 1650/80/32 Tandem Model No: F-571001								
CW1/LW1 (W012)	11 / 13	3	-	8 / 10	0 - 1	SI	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 - NDT Lev. II
 Interpreted & Evaluated By: M.Nazib - NDT Lev.II
 Date: 22 March 2018



Client Representative:
 Name:
 Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	PMI Tech (Europe) B.V. Air Liquide	IQI type :	ASTM 1B
Material:	SA 516 GR 70	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 Sect VIII Div 1, 2017 Edition	Source to Object Distance :	400mm
Examination Date:	21 March 2018	Source Side of Object to Film Distance:	(8/10+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
W/O:11796 Pressure Leaf PLH(D) Filter 1650/80/32 Tandem Model No: F-571002								
CW1/LW1 (W012)	11 / 13	3	-	8 / 10	0 - 1	Por	Debris	Remove

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 - NDT Lev. II

Client Representative:

Interpreted & Evaluated By: M.Nazib - NDT Lev.II

Date: 22 March 2018

Name:

Date:





Our Ref. : NT/103308/18-09

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Alfa Laval (Italy)	IQI type :	ASTM 1B
Material:	SA 240 304	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 Sect VIII Div 1 , 2017 Edition	Source to Object Distance :	400mm
Examination Date:	21 March 2018	Source Side of Object to Film Distance:	(8+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
W/O:11817 PLVD 1500/50 Item:26F03AF03A								
LW1 (W012)	11	3	-	8	0 - 1	NRI	Accept	
CW2/LW1 (W012)	11	3	-	8	0 - 1	NRI	Accept	
CW2/LW2 (W012)	11	3	-	8	0 - 1	NRI	Accept	
CW3/LW3 (W012)	11	3	-	8	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 - NDT Lev. II

Client Representative:

Interpreted & Evaluated By: M.Nazib - NDT Lev.II

Date: 22 March 2018

Name:
Date:





Our Ref. : NT/103308/18-09

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Alfa Laval (Italy)	IQI type :	ASTM 1B
Material:	SA 240 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(8+3)mm
Welding Process :	FCAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1, 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	21 March 2018	Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
W/O:11817 PLVD 1500/50 Item:26F03BF03B								
LW1 (W012)	11	3	-	8	0 - 1	NRI	Accept	
CW2/LW1 (W012)	11	3	-	8	0 - 1	NRI	Accept	
CW2/LW2 (W012)	11	3	-	8	0 - 1	NRI	Accept	
CW3/LW3 (W012)	11	3	-	8	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 - NDT Lev. II

Interpreted & Evaluated By: M.Nazib - NDT Lev. II

Date: 22 March 2018



Client Representative:

Name:

Date:



Our Ref. : NT/103308/18-09

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Alfa Laval (Italy)	IQI type :	ASTM 1B
Material:	SA 240 304	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 Sect VIII Div 1, 2017 Edition	Source to Object Distance :	400mm
Examination Date:	21 March 2018	Source Side of Object to Film Distance:	(8+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
W/O:11817 PLVD 1500/50 Item:26F03CF03C								
LW1 (W012)	11	3	-	8	0 - 1	NRI	Accept	
CW2/LW1 (W012)	11	3	-	8	0 - 1	NRI	Accept	
CW2/LW2 (W012)	11	3	-	8	0 - 1	NRI	Accept	
CW3/LW3 (W012)	11	3	-	8	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 - NDT Lev. II

Client Representative:

Interpreted & M.Nazib - NDT Lev.II

Name:

Evaluated By:

Date:

Date: 22 March 2018

Metrology & NDT Division: No. 9, Jalan Sungai Jerluj 32/196, Seksyen 32, Bukit Kemuning, 40460 Shah Alam, Selangor Darul Ehsan, Malaysia. Tel: 603-5525 1766 Fax: 603-5525 2766
Kemaman Branch: K-7206, Kawasan Perindustrian Jakar II, 24000 Kemaman, Terengganu Darul Iman, Malaysia. Tel: 6019-389 9768, 6012-395 9133 Fax: 609-859 3129

