



Tecnimont S.p.A.

REPSOL POLIMEROS
SA

4274_CONST

ALBA PROJECT-PP AND PEL PLANTS



MOD-ITP-XL_220		RELEASE OF SPOOLS FROM WORKSHOP	Report n° IP-WSR-P-310-000420_RFI5573_MOD-ITP-XL_220
Rev.1			RFI Nr.: Date :
Unit	-		
Plant Area	-		
Isometric Number			
Inspection Package Number	IP-WSR-P-310-000420_RFI5573 - IP Spool Release From Workshop		

Sheet 01/01

The Present Inspection Package contains the following Elements:

2211-PCW71A01-1-SP12-01162;2121-LO40B03-1-SP01-00997;2121-LO40B02-2-SP05-01147;2121-IA91F62-7-SP16-00477;1122-O15011-1-SP01-00546;1121-LS50001-4-SP07-01094;2211-PCW70B04-3-SP06-00407;2121-LO40B03-1-SP03-00998;2121-LO40B02-3-SP09-01150;1121-LS50001-4-SP08-01132;1113-PN52018-1-SP02-00862;2211-PCW70B04-3-SP05-01158;2211-VA71A01-1-SP01-00442;2211-PCW71A01-2-SP04-01104;2121-LO40B02-3-SP10-00505;2121-LO40B02-2-SP07-01149;1121-LS50006-2-SP02-01129;1121-LS50002-2-SP08-01126;2211-VA71A01-1-SP02-00443;2211-PCW71A01-2-SP05-01105;2121-LO40B02-3-SP11-00506;2121-LO40B02-3-SP08-00503;1121-PR34029-3-SP03-01131;1121-LS50005-3-SP05-00192;2121-LO40B02-2-SP06-01148;2121-LO40B02-2-SP04-01146;1211-VA81004-1-SP01-01095;1127-LS50009-2-SP01-01130;2211-PCW70B04-3-SP04-00406;2121-LO40B04-1-SP02-01069;2121-LO40B04-1-SP01-01068;2121-LO40B01-1-SP01-00498;2121-IA91F63-4-SP05-00488;2211-PCW70B04-3-SP07-00409;2121-LO40B03-1-SP02-01153;2121-LO40B01-1-SP02-00499;1211-PX86033-2-SP04-01145;1121-LS50002-2-SP05-01125;2211-LS50A05-1-SP02-00385;2121-LO40B04-1-SP03-01155;2121-IA91F63-4-SP04-00487;2121-IA91F62-8-SP17-00478;1113-PN52018-1-SP01-00861

Spool No.	Ready for destination to: P: Painting (1) W: Wrapping F: Field	NDE Class	Check List					
			Visual Inspect	Traceability OK (2)	Pending NDE / PMI (Yes/No/NA)	PWHT / HARDNESS (Yes/No/NA)	Inside Cleaning (3) (Yes/No/NA)	Spool Identified (Yes/No/NA)

On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
29.10.2024

LEGEND OF CHECK RESULT	<input checked="" type="checkbox"/> Checked & NOT Accepted	<input type="checkbox"/> Checked & Accepted	N.A.	Not Applicable	Y / N	Punch List Produced
SUBCONTRACTOR	Date [DD-MMM-YYYY] 29-10-2024	Name Sergio Morales Collantes	Signature			
CONTRACTOR						
COMPANY						
(Free)						



Tecnimont S.p.A.

4274_CONST

ALBA PROJECT-PP AND PEL PLANTS



MOD-ITP-XL_220		RELEASE OF SPOOLS FROM WORKSHOP	Report n° IP-WSR-P-310-000420_RFI5573_MOD-ITP-XL_220
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NOTES (*) : 4274-XH-PQ-00000001

- 1) Painting cycle to be indicated.
- 2) Refer to: **4274-LZ-PC-00000214** (COMPANY 4001008GEN-PC-214) "Management of Site Metallic Welding Activities" and **4274-LZ-PC-00000215** (COMPANY 4001008GEN-PC-215) "Procedure for Traceability of Piping Material"
- 3) Refer to: **4274-XH-SG-00000003** (COMPANY 45-L-45-000-2-00-80005) "Specification for Piping Fabrication & Erection Amendment to EC-L-51.01 and EC-L-51.02" and **4274-XH-PQ-00000001** (COMPANY 45-L-45-000-2-00-80081) "Inspection and Test Plan for Steel Piping Works"

On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu C. Sandu
29.10.2024

LEGEND OF CHECK RESULT	<input checked="" type="checkbox"/> Checked & NOT Accepted	<input checked="" type="checkbox"/> Checked & Accepted	N.A.	Not Applicable	Y / N	Punch List Produced
SUBCONTRACTOR	Date [DD-MMM-YYYY]	Name	Signature 			
CONTRACTOR	29-10-2024	Sergio Morales Collantes				
COMPANY						
(Free)						

 Tecnimont	<h3 style="text-align: center;">Punch List</h3> <h2 style="text-align: center;">PUNCH LIST</h2>	IDENTIFICATION CODE			
 MECWIDE <small>Engineering Services</small>	ISO ID:2121-LO40B02-2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33.33%; padding: 5px; text-align: center;">SHEET 1 / 1</td><td style="width: 33.33%; padding: 5px; text-align: center;">DOC.CLASS 1</td><td style="width: 33.33%; padding: 5px; text-align: center;">ISSUE 01</td></tr> </table>	SHEET 1 / 1	DOC.CLASS 1	ISSUE 01
SHEET 1 / 1	DOC.CLASS 1	ISSUE 01			

NOTES AND REMARKS

On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 *C. Sandu*

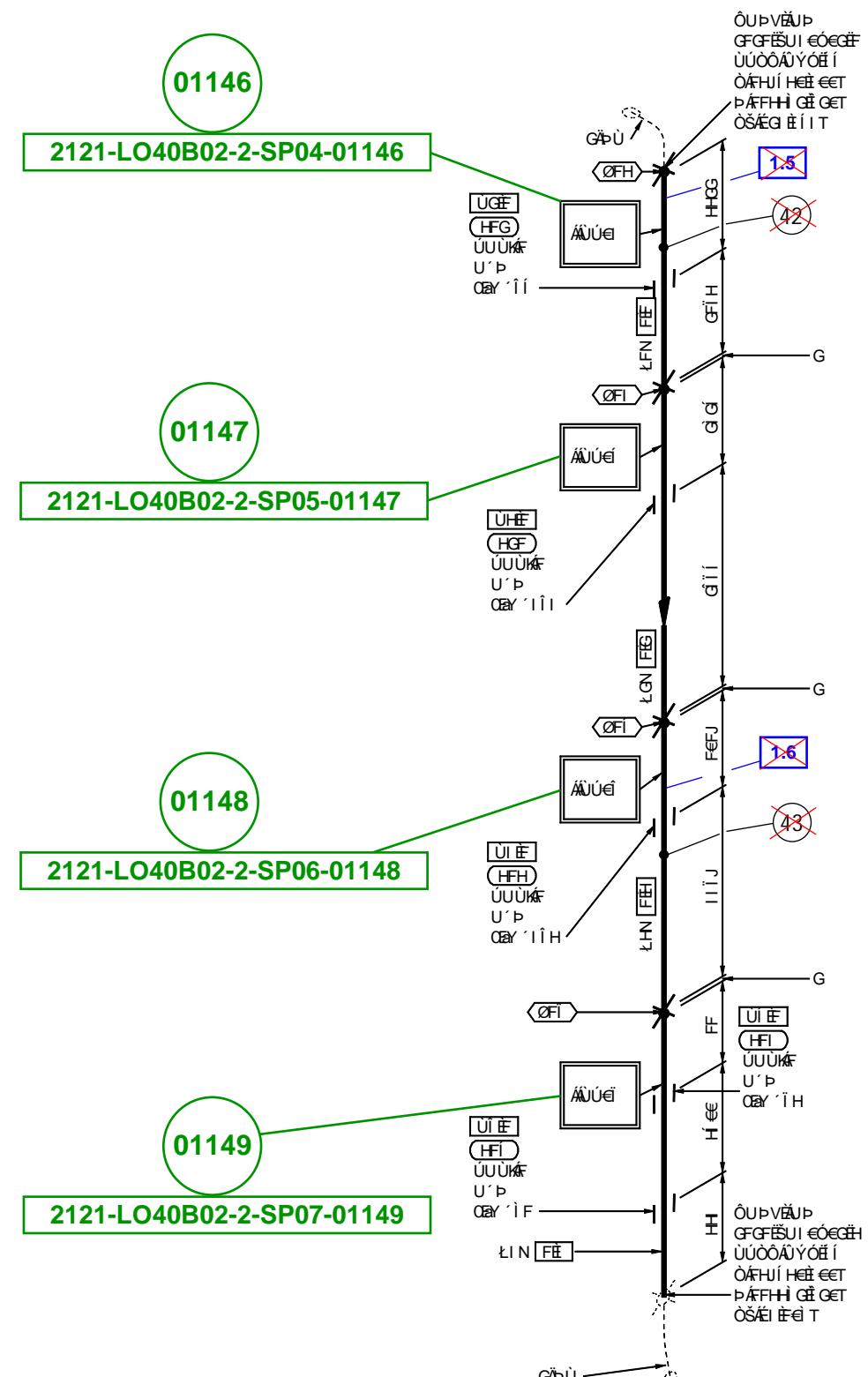
	DATE (dd-Mmm-YYYY)	NAME	SIGNATURE
SUBCONTRACTOR			
CONTRACTOR			
COMPANY			
(Free)			

ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1-1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION
FOR THE COMPONENT MARKED AS FIELD WELDED, ONE WELDED, ONE FOR ADJUSTMENT OF IN-LINE COMPONENT MUST BE LEFT
FIELD WELD SYMBOL FOR ADJUSTMENT OF IN-LINE COMPONENT WHERE MARKED
GUSSETTING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER SPECIFICATION 4048-XH-SG-00000000000000001
FOR LINE DATA AND TESTING CONDITIONS REFER TO LINE LIST 4048-XH-LL-10-0000-00001



REPS

 REPSOL																					



On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 *C. Sandu*

RECEIVED
14 / 12 / 2023

Sergio Morales

Date: 23-10-24

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1 DENOTES P

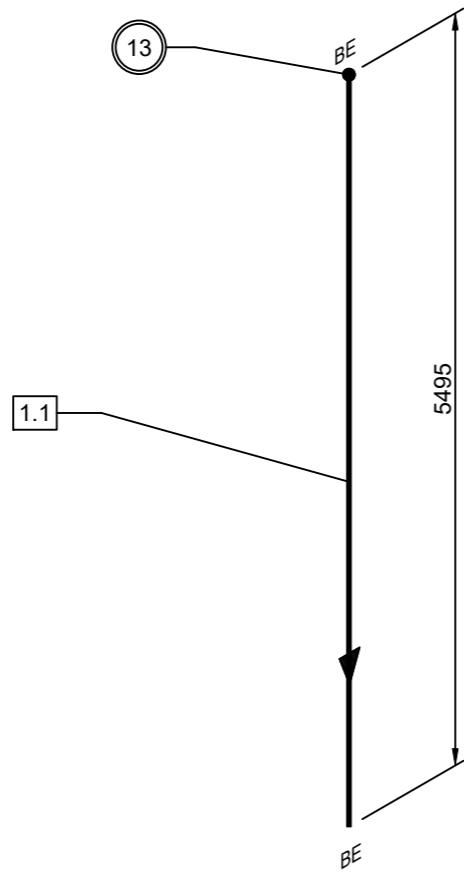
ARTS LIST NO PIPE A = RESTING SUPPORT G = GUIDE F = AXIAL RESTRAINT B = GUIDE + STOP M = SPRING
SUPPORT WHERE A WITHOUT NUMBERING IS INDICATED THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE

PROJECT: SUY ÁSØ ØCSÅDØP ÙQYÁU SÝØP QØP ØAÙØSDØP ØAÙU SÝÙUU YÙSØP ØAÙUD
ØUÙAÙUU RØOV ~~ØCSØCØU~~ UU RØOV

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M



On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 *C. Sandu*

Rev.	Date	DRW	Check 1	Check 2	
					Marking Color: GREEN
					Weld Class: QXB-55-M
00	01/10/2024	RHA	AZA		Paint System: NR

Sergio Morales

Date: 23-10-24

A blue ink signature of the company name "arpoamper" followed by "Sistech Industrial" and the date "18-4-2007".

Construction Code:	ASME B31.3	% RT -	YES	% UT -	NO	Hydro:	NO	ID Cleaning:	YES	Piece Mark	Ref. Drawing	Job #	Spool #	Project
Acc Criteria:	ASME B31.3	% PT -	YES	% FE -	NO	PWHT:	NO	OD Cleaning:	YES	2121-LO40B02-2-SP04-01146	2121-LO40B02-2	P2308S	01146	REPSOL PROJETO ALBA NERVION
Metal Tag:	YES	% MT -	NO	% PMI -	YES	BHN% -	NO	Tolerances:	ASME B31.3					

Spool Material List

Contract : P2308

Client NERVION

Job : P2308S

Project ALBA

Job	Spool	Piece Mark	Drawing	Rev						
Item No	Qty	Size1	Sch1	Size2	Sch2	Description	Heat No	Unit	Weight	Kgs
Tag No							MTR No			
ID No							Folder No			
P2308S	01146	2121-LO40B02-2-SP04-01146	2121-LO40B02-2	00						
1.1	5,495	2.0000	S10S	0.0000	NA	PIPE, SEAMLESS, A312-TP304L	NY231216AS15 0391	3,93	21,60	
40391										

On behalf of Tecnimont / R
 Piping Supervisor
 Cristi Sandu *C. Sandu*
 25.10.2024

Number of Items : 1

Total Weight : 21,60

Signature	QA	Client
		Sergio Morales Date: 23-10-24
Date	2024-10-16 16:22:02	

 Stainless Steel Experience				 DNV				CERTIFICATO DI COLLAUDO WORK TEST CERTIFICATE				Delivery Note				CLIENTE: PANTALONE S.R.L. CUSTOMER VIA DON PRIMO MAZZOLARI, 21 - Z.I. SELVAIEZZI 66100 CHIETI (CHIETI SCALO) CH			
TECNICA TRE s.r.l. 36061 BASSANO DEL GR. -VI- Via delle Viole, 16 - Tel. +39 0424 Fax Sede legale: Via delle Viole, 16 36061 BASSANO DEL GR. -VI- Partita Iva 02523320246 - R.I. VI-1996-149				EN 10204/3.1 DIN 50049/3.1 NR. BD24016251 DEL 11/06/24				NR. BD24016251 DEL 11/06/24				RIF. DDT BD24016251							

ANALISI CHIMICA - CHEMICAL COMPOSITION

COLATA	QTA'	CODICE	DESCRIZIONE	MATERIALE	C%	Si%	Mn%	S%	P%	Ni%	Cr%	Mo%	Al%	Cu%	Ti%	N%
HEAT NO.	Q.TY	CODE	DESCRIPTION	MATERIAL	C%	Si%	Mn%	S%	P%	Ni%	Cr%	Mo%	Al%	Cu%	Ti%	N%
			Ns. Ordine Cliente Nr. OC24017381 del 11/06/24													
			Vs. Ordine Cliente Nr. 2024-BOF-0001035 del 11/06/24													
NY231216AS1 5	134,40	946#200010304	TUBO SMLS ASTM/ASME A/SA312/A999 2" (60.3) SCH10S (2.77) AISI 304/304L	TP304/304L-1.4301/1.4307	0,022	0,4	1,37	0,001	0,035	8,03	18,34					0,076
NY231216AS1 5	106,40	946#200010304	TUBO SMLS ASTM/ASME A/SA312/A999 2" (60.3) SCH10S (2.77) AISI 304/304L	TP304/304L-1.4301/1.4307	0,022	0,4	1,37	0,001	0,035	8,03	18,34					0,076

Note - Notes

Firma
Signature

I dati dell'analisi chimica e delle prove meccaniche corrispondono fedelmente al certificato inviato dal fabbricante del materiale base e/o dal laboratorio che ha effettuato le prove. I certificati sono conservati nel nostro archivio.
 The chemical analysis and mechanical properties fully comply with the certificate issued by the manufacturer of the basic material and/or by the laboratory carrying out test. The certificates are kept in our archives.

 TECNICATRE Stainless Steel Experience TECNICA TRE s.r.l. 36061 BASSANO DEL GR. -VI- Via delle Viole, 16 - Tel. +39 0424 Fax: Sede legale: Via delle Viole, 16 36061 BASSANO DEL GR. -VI- Partita Iva 02523320246 - R.I. VI-1996-149	CERTIFICATO DI COLLAUDO WORK TEST CERTIFICATE EN 10204/3.1 DIN 50049/3.1 NR. BD24016251 DEL 11/06/24	Delivery Note NR. BD24016251 DEL 11/06/24	CLIENTE: PANTALONE S.R.L. CUSTOMER VIA DON PRIMO MAZZOLARI, 21 - Z.I. SELVAIEZZI 66100 CHIETI (CHIETI SCALO) CH
			RIF. DDT BD24016251

CARATTERISTICHE MECCANICHE - MECHANICAL TEST

COLATA Heat no.	SNERVAMENTO yield point - N/mm ²	ROTTURA tensile - N/mm ²	ALLUNGAMENTO elongation - %	CONTRAZIONE red of area - %	DUREZZA hardness - %
NY231216AS15	320,0	545,0	44,5	0,0	0,0
NY231216AS15	320,0	545,0	44,5	0,0	0,0

Note - Notes

Firma
Signature

I dati dell'analisi chimica e delle prove meccaniche corrispondono fedelmente al certificato inviato dal fabbricante del materiale base e/o dal laboratorio che ha effettuato le prove. I certificati sono conservati nel nostro archivio.
The chemical analysis and mechanical properties fully comply with the certificate issued by the manufacturer of the basic material and/or by the laboratory carrying out test. The certificates are kept in our archives.



Contract : P2300

Drawing : 2121-LO40B02-2

Welding and QC Report Per Spool

Job : P2300S

Material : Stainless Steel 304, 316, 317

Client : NERVION

Revision : 00

Project : ALBA

Piece Mark : 2121-LO40B02-2-SP04-01146

Spec : QXB-55-M

Weld data				Welding												Control													
Weld No.	Type	Dia /Thk	Sch Proc.	1st Pass	1st MTR	Final Pass	Final Pass	Final MTR	Dim	Date DIM	Visual	Date Visual	PT	Date PT	MT	Date MT	PMI	Date PMI	Ferite	Date Ferrite	PWHT	Date PWHT	BHN	Date BHN	Ultra	Date UT	Xray	Date Xray	
0013	SP	2	S10S																										

001117 | 11-10-2024

On behalf of Tecnimont / R
 Piping Supervisor
 Cristi Sandu *C. Sandu*
 25.10.2024

Notes:

Boccard Portugal QC	Client
 Sergio Morales	Date: 23-10-24 
16-10-2024 16:22:02	



Shop QC Inspection Report

P2308-001157

Client : NERVION
 Contract : P2308 / Project : ALBA
 Material: Stainless Steel 304, 316, 317

Job number: P2308S
 Spool N°: 01146
 Piece Mark: 2121-LO40B02-2-SP04-01146

Procedure / Instruction reference: 20.2 IT 011 MF 324 - Rev: A

Control Date: 11-10-2024

Remarks: The results refer to the controlled items

Actions / Tasks List	Required		Done/ Identified
	Yes	No	
Welder / weld list labels printed and pasted on the spool sheet	X		X
Spool Barcode label printed	X		X
Spool is identified with the metal tag	X		X
Spool stencil required (hard stamp low stress)		X	
Joint preparation & cleanliness / spool dimensions checked	X		X
Level, plumb, Two holes, flanges and internal alignment, Squareness	X		X
Material checked (type of material, rate, heat numbers, filler material, etc.)	X		X
Welders list match with actual welder stencil / Id. on pipe	X		X
PWHT- Spool identified as per Procedure / Instruction for PWHT		X	
HT (Hardness Test)- Welds identified as per Procedure / Instruction		X	
MT - Welds identified as per Procedure / Instruction		X	
PT - Welds identified as per Procedure / Instruction		X	
PMI - Welds identified as per Procedure / Instruction	X		X
FE (Ferrite test) - Welds identified as per Procedure / Instruction		X	
RT - Welds identified as per Procedure / Instruction		X	
UT - Welds identified as per Procedure / Instruction		X	
Spool identified (by marker) as per Procedure / Instruction (Job number, sheet number and Paint type if required)	X		X
Hydro - Spool identified as per Procedure / Instruction		X	
Cleanliness - Cleaned inside free of slag, scale, sand, weld spatter, cutting chips, etc. and blow out by compressed air	X		X

Comments:

Performed by: MATOS, MARCO (N2 VT/PT) Date: 11-10-2024 Signature 	QA/QC Inspection: RAIMUNDO, MARIANA Date: 16-10-2024 16:22:02 Signature 	Customer Inspection: Sergio Morales Date: 23-10-24 
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On behalf of Tecnimont / R
 Piping Supervisor
 Cristi Sandu 
 25.10.2024 C. Sandu

Visual Examination Report (Welds)

P2308-001117

Contract : P2308

Job number: P2308S

Material: Stainless Steel 304, 316, 317

Client : NERVION

Spool Nº: 01146

Procedure & Instructions: 4274-LZ-VF-W31010370QAC04 - Rev: 1

Project : ALBA

Piece Mark: 2121-LO40B02-2-SP04-01146

Testing Date: 11-10-2024

Remarks: The results refer to the controlled items

Unacceptable indications for welding

ACCEPTANCE CRITERIA : ASME B31.3

Weld reinforcement greater than specified in project procedure

The illumination of the surface must be at least 500 lux. However, a value of 1000lux is recommended

Any linear indications greater than specified in project procedure, surface porosity with rounded indications having a dimension greater than specified project procedure

Indications of lack of fusion open to the surface / Cracks located on external surfaces

Surface finish that could interfere with other testing required

Incomplete penetration of welds / Indications of undercut on surfaces which are greater than specified in project procedure

Misalignment greater than specified in applicable code or poor fit up of weld joints

Identification

Weld No.	Weld Desc.	Welder	Temp. (°F/°C)	Accepted	Rejected	Defect	Technique Used	Comments
0013	2.0000 S10S SP-Pipe/Fitting Without Weld ()		17	X			Direct	

Sketch / Photo:

Defects

Clustered Porosity	CP	Porosity	P	Cap	C	Lack of Cleanup	LC	Hollow in Cap	W
Unibmly Porosity	UP	Slag	S	Undercut	UC	Crack	CR	Surface	SU

Test Performed by: MATOS, MARCO (N2 VT/PT)

Date: 11-10-2024

Signature



QA/QC Inspection: RAIMUNDO, MARIANA

Date: 16-10-2024 16:22:02

Signature



Customer Inspection:

Sergio Morales

Date: 23-10-24


On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 C. Sandu



Positive Material Identification Report (PMI)

P2308-001170

Client : NERVION
 Contract : P2308 / Project : ALBA

Remarks: The results refer to the controlled items

Job number: P2308S

Spool N°: 01146

Piece Mark: 2121-LO40B02-2-SP04-01146

Material:

Procedure / Instruction reference: 4274-LZ-VF-FW31010370QAC11 - Rev: 1

PMI Equipment : Niton XL3t800 Serial N° 32735 (FP01)

Equipment Deviation : + - 5%

Testing Date: 14-10-2024

Weld / Item No	Description	Reading Number	Chemical Elements										Accepted	Rejected	Comments
			%Ti	%Mo	%Cu	%Ni	%Fe	%Mn	%Cr	%Nb	%Al	%V			
1.1	2.0000 S10S PIPE, SEAMLESS, A312-TP304L (NY231216AS15)	246	0	2	0	9	68	1	16	0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

On behalf of Tecnimon / R
 Piping Supervisor
 Cristi Sandu
 25.10.2024

Test Performed by: GONCALVES(QA), J. (N2 PT/RT) QA/QC Inspection: RAIMUNDO, MARIANA

Customer Inspection:

Date: 14-10-2024

Date: 16-10-2024 16:22:02

Date: Sergio Morales

Signature



Signature



Signature

Date: 23-10-24



Boccard Portugal, Lda
Zona Industrial de Montalvo, Lote 3
Constância, Portugal 2250-999

Certificate of PMI Reading

XL3t-32735

Reading No	246
Mode	ALLOY
Time	2024-10-14 11:42
Duration	10.89
Sequence	Final
Alloy1	316SS : 1.63
Alloy2	No Match : *4.20
Flags	
SAMPLE	
HEAT	
LOT	
BATCH	
MISC	
NOTE	

	%	±	Error
Sb	< LOD	:	0.047
Sn	< LOD	:	0.053
Pd	< LOD	:	0.041
Ag	< LOD	:	0.154
Al	< LOD	:	80.000
Mo	2.053	±	0.050
Nb	0.025	±	0.007
Zr	< LOD	:	0.005
Bi	< LOD	:	0.014
Pb	< LOD	:	0.027
Se	< LOD	:	0.014
W	< LOD	:	0.112
Zn	< LOD	:	0.039
Cu	0.518	±	0.103
Ni	9.806	±	0.319
Co	< LOD	:	0.490
Fe	68.688	±	0.449
Mn	1.902	±	0.211
Cr	16.568	±	0.255
V	< LOD	:	0.143
Ti	< LOD	:	0.155

Sergio Morales

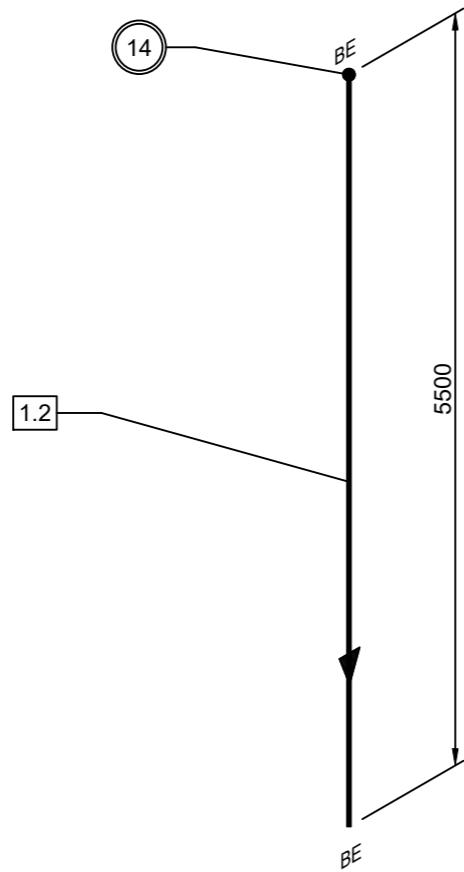


Date: 23-10-24

On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 C. Sandu



M



On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 *C. Sandu*

Rev.	Date	DRW	Check 1	Check 2	
					Marking Color: GREEN
					Weld Class: QXB-55-M
00	01/10/2024	RHA	AZA		Paint System: NR

Sergio Morales

Date: 23-10-24

Construction Code:	ASME B31.3	% RT -	YES	% UT -	NO	Hydro:	NO	ID Cleaning:	YES	Piece Mark	Ref. Drawing	Job #	Spool #	Project
Acc Criteria:	ASME B31.3	% PT -	YES	% FE -	NO	PWHT:	NO	OD Cleaning:	YES	2121-LO40B02-2-SP05-01147	2121-LO40B02-2	P2308S	01147	REPSOL PROJETO ALBA NERVION
Metal Tag:	YES	% MT -	NO	% PMI -	YES	BHN% -	NO	Tolerances:	ASME B31.3					

Spool Material List

Contract : P2308

Client NERVION

Job : P2308S

Project ALBA

Job	Spool	Piece Mark	Drawing	Rev				
Item No	Qty	Size1	Sch1	Size2	Description	Heat No	Unit	Weight
Tag No						MTR No	Weight	Kgs
ID No						Folder No		
P2308S	01147	2121-LO40B02-2-SP05-01147	2121-LO40B02-2	00				
1.2	5,5	2.0000	S10S	0.0000	NA PIPE, SEAMLESS, A312-TP304L	NY231216AS15 0391	3,93	21,62
40391								

On behalf of Tecnimont / R
 Piping Supervisor
 Cristi Sandu
 25.10.2024 *C. Sandu*

Number of Items : 1

Total Weight : 21,62

Signature	QA	Client
		Sergio Morales Date: 23-10-24
Date	2024-10-16 16:22:26	

 Stainless Steel Experience				 DNV GL GROUP				CERTIFICATO DI COLLAUDO WORK TEST CERTIFICATE EN 10204/3.1 DIN 50049/3.1 NR. BD24016251 DEL 11/06/24												Delivery Note NR. BD24016251 DEL 11/06/24				CLIENTE: PANTALONE S.R.L. CUSTOMER VIA DON PRIMO MAZZOLARI, 21 - Z.I. SELVAIEZZI 66100 CHIETI (CHIETI SCALO) CH				RIF. DDT BD24016251			
ANALISI CHIMICA - CHEMICAL COMPOSITION												MATERIALE	C%	Si%	Mn%	S%	P%	Ni%	Cr%	Mo%	Al%	Cu%	Ti%	N%							
COLATA	QTA'	CODICE	DESCRIZIONE	HEAT NO.	Q.TY	CODE	DESCRIPTION	MATERIAL	C%	Si%	Mn%	S%	P%	Ni%	Cr%	Mo%	Al%	Cu%	Ti%	N%											
			Ns. Ordine Cliente Nr. OC24017381 del 11/06/24																												
			Vs. Ordine Cliente Nr. 2024-BOF-0001035 del 11/06/24																												
NY231216AS1	134,40	946#200010304	TUBO SMLS ASTM/ASME A/SA312/A999 2" (60.3) SCH10S (2.77) AISI 304/304L	5			TP304/304L-1.4301/1.4307	0,022	0,4	1,37	0,001	0,035	8,03	18,34											0,076						
NY231216AS1	106,40	946#200010304	TUBO SMLS ASTM/ASME A/SA312/A999 2" (60.3) SCH10S (2.77) AISI 304/304L	5			TP304/304L-1.4301/1.4307	0,022	0,4	1,37	0,001	0,035	8,03	18,34										0,076							

Note - Notes

Firma
Signature

I dati dell'analisi chimica e delle prove meccaniche corrispondono fedelmente al certificato inviato dal fabbricante del materiale base e/o dal laboratorio che ha effettuato le prove. I certificati sono conservati nel nostro archivio.
 The chemical analysis and mechanical properties fully comply with the certificate issued by the manufacturer of the basic material and/or by the laboratory carrying out test. The certificates are kept in our archives.

 TECNICATRE Stainless Steel Experience TECNICA TRE s.r.l. 36061 BASSANO DEL GR. -VI- Via delle Viole, 16 - Tel. +39 0424 Fax: Sede legale: Via delle Viole, 16 36061 BASSANO DEL GR. -VI- Partita Iva 02523320246 - R.I. VI-1996-149	CERTIFICATO DI COLLAUDO WORK TEST CERTIFICATE EN 10204/3.1 DIN 50049/3.1 NR. BD24016251 DEL 11/06/24	Delivery Note NR. BD24016251 DEL 11/06/24	CLIENTE: PANTALONE S.R.L. CUSTOMER VIA DON PRIMO MAZZOLARI, 21 - Z.I. SELVAIEZZI 66100 CHIETI (CHIETI SCALO) CH
			RIF. DDT BD24016251

CARATTERISTICHE MECCANICHE - MECHANICAL TEST

COLATA Heat no.	SNERVAMENTO yield point - N/mm ²	ROTTURA tensile - N/mm ²	ALLUNGAMENTO elongation - %	CONTRAZIONE red of area - %	DUREZZA hardness - %
NY231216AS15	320,0	545,0	44,5	0,0	0,0
NY231216AS15	320,0	545,0	44,5	0,0	0,0

Note - Notes

Firma
Signature

I dati dell'analisi chimica e delle prove meccaniche corrispondono fedelmente al certificato inviato dal fabbricante del materiale base e/o dal laboratorio che ha effettuato le prove. I certificati sono conservati nel nostro archivio.
The chemical analysis and mechanical properties fully comply with the certificate issued by the manufacturer of the basic material and/or by the laboratory carrying out test. The certificates are kept in our archives.



Contract : P2300

Drawing : 2121-LO40B02-2

Welding and QC Report Per Spool

Job : P2300S

Material : Stainless Steel 304, 316, 317

Client : NERVION

Revision : 00

Spool : 01147

Spec : QXB-55-M

Project : ALBA

Piece Mark : 2121-LO40B02-2-SP05-01147

Weld data				Welding												Control															
Weld No.	Type	Dia	Sch	Weld /Thk	1st Proc.	Pass	1	1st MTR	Final Pass	Final Pass	Final MTR	Dim	Date DIM	Visual	Date Visual	PT	Date PT	MT	Date MT	PMI	Date PMI	Ferite	Date Ferrite	PWHT	Date PWHT	BHN	Date BHN	Ultra	Date UT	Xray	Date Xray
0014	SP	2	S10S										001104	09-10-2024																	

On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 

Notes:

Boccard Portugal QC	Client
	Sergio Morales Date: 23-10-24 
16-10-2024 16:22:26	



Shop QC Inspection Report

P2308-001142

Client : NERVION
 Contract : P2308 / Project : ALBA
 Material: Stainless Steel 304, 316, 317

Job number: P2308S
 Spool N°: 01147
 Piece Mark: 2121-LO40B02-2-SP05-01147

Procedure / Instruction reference: 20.2 IT 011 MF 324 - Rev: A

Control Date: 09-10-2024

Remarks: The results refer to the controlled items

Actions / Tasks List	Required		Done/ Identified
	Yes	No	
Welder / weld list labels printed and pasted on the spool sheet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Spool Barcode label printed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Spool is identified with the metal tag	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Spool stencil required (hard stamp low stress)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Joint preparation & cleanliness / spool dimensions checked	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Level, plumb, Two holes, flanges and internal alignment, Squareness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Material checked (type of material, rate, heat numbers, filler material, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Welders list match with actual welder stencil / Id. on pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PWHT- Spool identified as per Procedure / Instruction for PWHT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HT (Hardness Test)- Welds identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MT - Welds identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PT - Welds identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PMI - Welds identified as per Procedure / Instruction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FE (Ferrite test) - Welds identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RT - Welds identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
UT - Welds identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spool identified (by marker) as per Procedure / Instruction (Job number, sheet number and Paint type if required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hydro - Spool identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cleanliness - Cleaned inside free of slag, scale, sand, weld spatter, cutting chips, etc. and blow out by compressed air	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

Performed by: MATOS, MARCO (N2 VT/PT) Date: 09-10-2024 Signature 	QA/QC Inspection: RAIMUNDO, MARIANA Date: 16-10-2024 16:22:26 Signature 	Customer Inspection: Sergio Morales Date: 23-10-24 
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On behalf of Tecnimon / R
 Piping Supervisor
 Cristi Sandu
 25.10.2024 

Visual Examination Report (Welds)

P2308-001104

Contract : P2308

Job number: P2308S

Material: Stainless Steel 304, 316, 317

Client : NERVION

Spool Nº: 01147

Procedure & Instructions: 4274-LZ-VF-W31010370QAC04 - Rev: 1

Project : ALBA

Piece Mark: 2121-LO40B02-2-SP05-01147

Testing Date: 09-10-2024

Remarks: The results refer to the controlled items

Unacceptable indications for welding

ACCEPTANCE CRITERIA : ASME B31.3

Weld reinforcement greater than specified in project procedure

The illumination of the surface must be at least 500 lux. However, a value of 1000lux is recommended

Any linear indications greater than specified in project procedure, surface porosity with rounded indications having a dimension greater than specified project procedure

Indications of lack of fusion open to the surface / Cracks located on external surfaces

Surface finish that could interfere with other testing required

Incomplete penetration of welds / Indications of undercut on surfaces which are greater than specified in project procedure

Misalignment greater than specified in applicable code or poor fit up of weld joints

Identification

Weld No.	Weld Desc.	Welder	Temp. (°F/°C)	Accepted	Rejected	Defect	Technique Used	Comments
0014	2.0000 S10S SP-Pipe/Fitting Without Weld ()		20	X			Direct	

Sketch / Photo:

Defects

Clustered Porosity	CP	Porosity	P	Cap	C	Lack of Cleanup	LC	Hollow in Cap	W
Unibmly Porosity	UP	Slag	S	Undercut	UC	Crack	CR	Surface	SU

Test Performed by: MATOS, MARCO (N2 VT/PT)

QA/QC Inspection: RAIMUNDO, MARIANA

Customer Inspection:

Date: 09-10-2024

Date: 16-10-2024 16:22:26

Sergio Morales

Signature



Signature



Date: 23-10-24


On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 C. Sandu



Positive Material Identification Report (PMI)

P2308-001171

Client : NERVION
 Contract : P2308 / Project : ALBA

Remarks: The results refer to the controlled items

Job number: P2308S

Spool N°: 01147

Piece Mark: 2121-LO40B02-2-SP05-01147

Material:

Procedure / Instruction reference: 4274-LZ-VD-FW31010370QAC11 - Rev: 1

PMI Equipment : Niton XL3t800 Serial N° 32735 (FP01)

Equipment Deviation : + - 5%

Testing Date: 14-10-2024

Weld / Item No	Description	Reading Number	Chemical Elements										Accepted	Rejected	Comments
			%Ti	%Mo	%Cu	%Ni	%Fe	%Mn	%Cr	%Nb	%Al	%V			
1.2	2.0000 S10S PIPE, SEAMLESS, A312-TP304L (NY231216AS15)	20	0	0	0	8	71	1	17	0	0	0	<input checked="" type="checkbox"/> X	<input type="checkbox"/>	

On behalf of Tecnimont / R
 Piping Supervisor
 Cristi Sandu
 25.10.2024

Test Performed by: GONCALVES(QA), J. (N2 PT/RT) QA/QC Inspection: RAIMUNDO, MARIANA

Customer Inspection:

Date: 14-10-2024

Date: 16-10-2024 16:22:26

Date: Sergio Morales

Signature



Signature



Signature

Date: 23-10-24



Boccard Portugal, Lda
Zona Industrial de Montalvo, Lote 3
Constância, Portugal 2250-999

Certificate of PMI Reading

XL3t-32735

Reading No	20
Mode	ALLOY
Time	2024-10-14 09:12
Duration	11.59
Sequence	Final
Alloy1	304SS : 1.45
Alloy2	No Match : 2.11
Flags	
SAMPLE	
HEAT	
LOT	
BATCH	
MISC	
NOTE	

	%	±	Error
Sb	< LOD	:	0.039
Sn	< LOD	:	0.047
Pd	< LOD	:	0.037
Ag	< LOD	:	0.139
Al	< LOD	:	80.000
Mo	0.015	±	0.006
Nb	< LOD	:	0.004
Zr	< LOD	:	0.006
Bi	< LOD	:	0.011
Pb	< LOD	:	0.005
Se	< LOD	:	0.007
W	< LOD	:	0.076
Zn	< LOD	:	0.024
Cu	< LOD	:	0.134
Ni	8.038	±	0.275
Co	0.510	±	0.234
Fe	71.492	±	0.425
Mn	1.547	±	0.190
Cr	17.969	±	0.244
V	0.203	±	0.070
Ti	< LOD	:	0.148

Sergio Morales

Date: 23-10-24



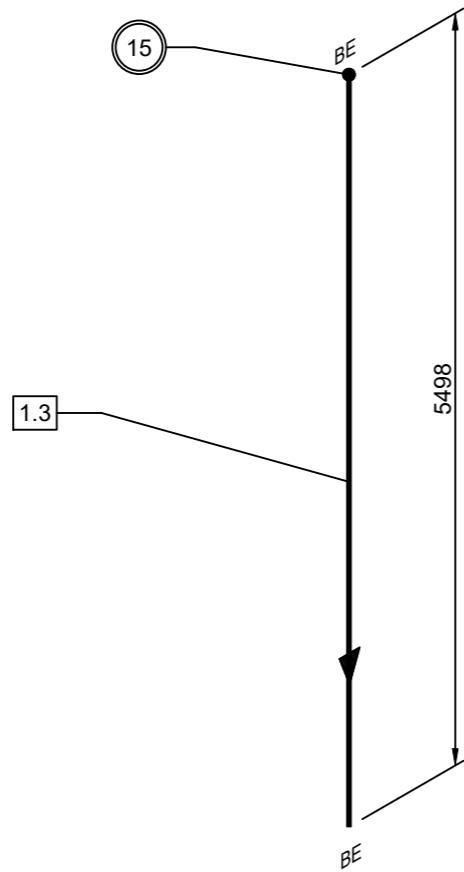
On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 



BILL OF MATERIAL

PIPE

ITEM	LONGUEUR	DIAMETRE	SCH/mm	DESCRIPTION / MATERIEL	ITEM CODE
1.3	5,498	2"	S-10S	PIPE - A312-TP304/304L DUAL GR BE SMLS, BExBE	I3364302



On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 *C. Sandu*

Rev.	Date	DRW	Check 1	Check 2	
					Marking Color: GREEN
					Weld Class: QXB-55-M
00	01/10/2024	RHA	AZA		Paint System: NR

Sergio Morales

Date: 23-10-24

Weld Map Sticker

P2308S 01148



2121-LO40B02-2-SP06-01148



Spool Material List

Contract : P2308

Client NERVION

Job : P2308S

Project ALBA

Job	Spool	Piece Mark	Drawing	Rev				
Item No	Qty	Size1	Sch1	Size2	Description	Heat No	Unit	Weight
Tag No						MTR No	Weight	Kgs
ID No						Folder No		
P2308S	01148	2121-LO40B02-2-SP06-01148	2121-LO40B02-2	00				
1.3	5,498	2.0000	S10S	0.0000	NA PIPE, SEAMLESS, A312-TP304L	NY231216AS15 0391	3,93	21,61
40391								

On behalf of Tecnimont / R
 Piping Supervisor
 Cristi Sandu *C. Sandu*
 25.10.2024

Number of Items : 1

Total Weight : 21,61

Signature	QA	Client
		Sergio Morales Date: 23-10-24 
Date	2024-10-16 16:22:58	

 Stainless Steel Experience				 DNV				CERTIFICATO DI COLLAUDO WORK TEST CERTIFICATE				Delivery Note				CLIENTE: PANTALONE S.R.L. CUSTOMER VIA DON PRIMO MAZZOLARI, 21 - Z.I. SELVAIEZZI 66100 CHIETI (CHIETI SCALO) CH			
TECNICA TRE s.r.l. 36061 BASSANO DEL GR. -VI- Via delle Viole, 16 - Tel. +39 0424 Fax Sede legale: Via delle Viole, 16 36061 BASSANO DEL GR. -VI- Partita Iva 02523320246 - R.I. VI-1996-149				EN 10204/3.1 DIN 50049/3.1 NR. BD24016251 DEL 11/06/24				NR. BD24016251 DEL 11/06/24				RIF. DDT BD24016251							

ANALISI CHIMICA - CHEMICAL COMPOSITION

COLATA	QTA'	CODICE	DESCRIZIONE	MATERIALE	C%	Si%	Mn%	S%	P%	Ni%	Cr%	Mo%	Al%	Cu%	Ti%	N%
HEAT NO.	Q.TY	CODE	DESCRIPTION	MATERIAL	C%	Si%	Mn%	S%	P%	Ni%	Cr%	Mo%	Al%	Cu%	Ti%	N%
			Ns. Ordine Cliente Nr. OC24017381 del 11/06/24													
			Vs. Ordine Cliente Nr. 2024-BOF-0001035 del 11/06/24													
NY231216AS1 5	134,40	946#200010304	TUBO SMLS ASTM/ASME A/SA312/A999 2" (60.3) SCH10S (2.77) AISI 304/304L	TP304/304L-1.4301/1.4307	0,022	0,4	1,37	0,001	0,035	8,03	18,34					0,076
NY231216AS1 5	106,40	946#200010304	TUBO SMLS ASTM/ASME A/SA312/A999 2" (60.3) SCH10S (2.77) AISI 304/304L	TP304/304L-1.4301/1.4307	0,022	0,4	1,37	0,001	0,035	8,03	18,34					0,076

Note - Notes

Firma
Signature

I dati dell'analisi chimica e delle prove meccaniche corrispondono fedelmente al certificato inviato dal fabbricante del materiale base e/o dal laboratorio che ha effettuato le prove. I certificati sono conservati nel nostro archivio.
 The chemical analysis and mechanical properties fully comply with the certificate issued by the manufacturer of the basic material and/or by the laboratory carrying out test. The certificates are kept in our archives.

 TECNICATRE Stainless Steel Experience TECNICA TRE s.r.l. 36061 BASSANO DEL GR. -VI- Via delle Viole, 16 - Tel. +39 0424 Fax: Sede legale: Via delle Viole, 16 36061 BASSANO DEL GR. -VI- Partita Iva 02523320246 - R.I. VI-1996-149	CERTIFICATO DI COLLAUDO WORK TEST CERTIFICATE EN 10204/3.1 DIN 50049/3.1 NR. BD24016251 DEL 11/06/24	Delivery Note NR. BD24016251 DEL 11/06/24	CLIENTE: PANTALONE S.R.L. CUSTOMER VIA DON PRIMO MAZZOLARI, 21 - Z.I. SELVAIEZZI 66100 CHIETI (CHIETI SCALO) CH
			RIF. DDT BD24016251

CARATTERISTICHE MECCANICHE - MECHANICAL TEST

COLATA Heat no.	SNERVAMENTO yield point - N/mm ²	ROTTURA tensile - N/mm ²	ALLUNGAMENTO elongation - %	CONTRAZIONE red of area - %	DUREZZA hardness - %
NY231216AS15	320,0	545,0	44,5	0,0	0,0
NY231216AS15	320,0	545,0	44,5	0,0	0,0

Note - Notes

Firma
Signature

I dati dell'analisi chimica e delle prove meccaniche corrispondono fedelmente al certificato inviato dal fabbricante del materiale base e/o dal laboratorio che ha effettuato le prove. I certificati sono conservati nel nostro archivio.
The chemical analysis and mechanical properties fully comply with the certificate issued by the manufacturer of the basic material and/or by the laboratory carrying out test. The certificates are kept in our archives.



Contract : P2300

Drawing : 2121-LO40B02-2

Welding and QC Report Per Spool

Job : P2300S

Material : Stainless Steel 304, 316, 317

Client : NERVION

Revision : 00

Project : ALBA

Piece Mark : 2121-LO40B02-2-SP06-01148

Spec : QXB-55-M

Weld data

Welding

Control

Weld No.	Type	Dia	Sch	Weld /Thk	1st Proc.	Pass	1st MTR	Final Pass	Final MTR	Dim	Date DIM	Visual	Date Visual	PT	Date PT	MT	Date MT	PMI	Date PMI	Ferite	Date Ferrite	PWHT	Date PWHT	BHN	Date BHN	Ultra	Date UT	Xray	Date Xray
0015	SP	2	S10S																										

001116 | 11-10-2024

On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
C. Sandu
25.10.2024

Notes:

Boccard Portugal QC	Client
 Sergio Morales Date: 23-10-24	
16-10-2024 16:22:58	



Shop QC Inspection Report

P2308-001158

Client : NERVION
 Contract : P2308 / Project : ALBA
 Material: Stainless Steel 304, 316, 317

Job number: P2308S
 Spool N°: 01148
 Piece Mark: 2121-LO40B02-2-SP06-01148

Procedure / Instruction reference: 20.2 IT 011 MF 324 - Rev: A

Control Date: 11-10-2024

Remarks: The results refer to the controlled items

Actions / Tasks List	Required		Done/ Identified
	Yes	No	
Welder / weld list labels printed and pasted on the spool sheet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Spool Barcode label printed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Spool is identified with the metal tag	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Spool stencil required (hard stamp low stress)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Joint preparation & cleanliness / spool dimensions checked	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Level, plumb, Two holes, flanges and internal alignment, Squareness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Material checked (type of material, rate, heat numbers, filler material, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Welders list match with actual welder stencil / Id. on pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PWHT- Spool identified as per Procedure / Instruction for PWHT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HT (Hardness Test)- Welds identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MT - Welds identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PT - Welds identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PMI - Welds identified as per Procedure / Instruction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FE (Ferrite test) - Welds identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RT - Welds identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
UT - Welds identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spool identified (by marker) as per Procedure / Instruction (Job number, sheet number and Paint type if required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hydro - Spool identified as per Procedure / Instruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cleanliness - Cleaned inside free of slag, scale, sand, weld spatter, cutting chips, etc. and blow out by compressed air	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

Performed by: MATOS, MARCO (N2 VT/PT) Date: 11-10-2024 Signature 	QA/QC Inspection: RAIMUNDO, MARIANA Date: 16-10-2024 16:22:58 Signature 	Customer Inspection: Sergio Morales Date: 23-10-24 
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On behalf of Tecnimont / R
 Piping Supervisor
 Cristi Sandu 
 25.10.2024

Visual Examination Report (Welds)

P2308-001116

Contract : P2308

Job number: P2308S

Material: Stainless Steel 304, 316, 317

Client : NERVION

Spool Nº: 01148

Procedure & Instructions: 4274-LZ-VF-W31010370QAC04 - Rev: 1

Project : ALBA

Piece Mark: 2121-LO40B02-2-SP06-01148

Testing Date: 11-10-2024

Remarks: The results refer to the controlled items

Unacceptable indications for welding

ACCEPTANCE CRITERIA : ASME B31.3

Weld reinforcement greater than specified in project procedure

The illumination of the surface must be at least 500 lux. However, a value of 1000lux is recommended

Any linear indications greater than specified in project procedure, surface porosity with rounded indications having a dimension greater than specified project procedure

Indications of lack of fusion open to the surface / Cracks located on external surfaces

Surface finish that could interfere with other testing required

Incomplete penetration of welds / Indications of undercut on surfaces which are greater than specified in project procedure

Misalignment greater than specified in applicable code or poor fit up of weld joints

Identification

Weld No.	Weld Desc.	Welder	Temp. (°F/°C)	Accepted	Rejected	Defect	Technique Used	Comments
0015	2.0000 S10S SP-Pipe/Fitting Without Weld ()		17	X			Direct	

Sketch / Photo:

Defects

Clustered Porosity	CP	Porosity	P	Cap	C	Lack of Cleanup	LC	Hollow in Cap	W
Unibmly Porosity	UP	Slag	S	Undercut	UC	Crack	CR	Surface	SU

Test Performed by: MATOS, MARCO (N2 VT/PT)

QA/QC Inspection: RAIMUNDO, MARIANA

Customer Inspection:

Date: 11-10-2024

Date: 16-10-2024 16:22:58

Sergio Morales

Signature



Signature



Date: 23-10-24


On behalf of Tecnímont / R
Piping Supervisor
Cristi Sandu
25.10.2024 C. Sandu



Positive Material Identification Report (PMI)

P2308-001172

Client : NERVION
 Contract : P2308 / Project : ALBA

Remarks: The results refer to the controlled items

Job number: P2308S

Spool N°: 01148

Piece Mark: 2121-LO40B02-2-SP06-01148

Material:

Procedure / Instruction reference: 4274-LZ-VD-FW31010370QAC11 - Rev: 1

PMI Equipment : Niton XL3t800 Serial N° 32735 (FP01)

Equipment Deviation : + - 5%

Testing Date: 14-10-2024

Weld / Item No	Description	Reading Number	Chemical Elements										Accepted	Rejected	Comments
			%Ti	%Mo	%Cu	%Ni	%Fe	%Mn	%Cr	%Nb	%Al	%V			
1.3	2.0000 S10S PIPE, SEAMLESS, A312-TP304L (NY231216AS15)	244	0	0	0	7	71	1	17	0	0	0	X		

On behalf of Tecnimon / R
 Piping Supervisor
 Cristi Sandu
 25.10.2024 C. Sandu

Test Performed by: GONCALVES(QA), J. (N2 PT/RT) QA/QC Inspection: RAIMUNDO, MARIANA

Date: 14-10-2024

Signature



Date: 16-10-2024 16:22:58

Signature



Customer Inspection:

Sergio Morales

Date:



Signature Date: 23-10-24

Boccard Portugal, Lda
Zona Industrial de Montalvo, Lote 3
Constância, Portugal 2250-999

Certificate of PMI Reading

XL3t-32735

Reading No	244
Mode	ALLOY
Time	2024-10-14 11:40
Duration	10.20
Sequence	Final
Alloy1	301SS : 1.11
Alloy2	No Match : 2.42
Flags	
SAMPLE	
HEAT	
LOT	
BATCH	
MISC	
NOTE	

	%	±	Error
Sb	< LOD	:	0.038
Sn	< LOD	:	0.050
Pd	< LOD	:	0.036
Ag	< LOD	:	0.196
Al	< LOD	:	80.000
Mo	0.014	±	0.006
Nb	< LOD	:	0.005
Zr	< LOD	:	0.003
Bi	< LOD	:	0.008
Pb	< LOD	:	0.005
Se	< LOD	:	0.009
W	< LOD	:	0.088
Zn	< LOD	:	0.036
Cu	< LOD	:	0.149
Ni	7.732	±	0.290
Co	0.503	±	0.251
Fe	71.986	±	0.453
Mn	1.409	±	0.201
Cr	17.908	±	0.260
V	0.179	±	0.072
Ti	< LOD	:	0.141

Sergio Morales

Date: 23-10-24



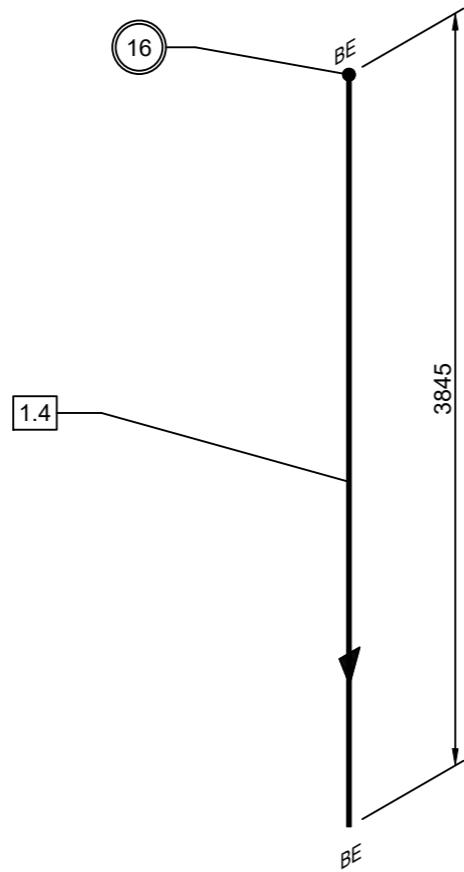
On behalf of Tecimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 C. Sandu



BILL OF MATERIAL

PIPE

ITEM	LONGUEUR	DIAMETRE	SCH/mm	DESCRIPTION / MATERIEL	ITEM CODE
1.4	3.845	2"	S-10S	PIPE - A312-TP304/304L DUAL GR BE SMLS, BExBE	I3364302



On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 *C. Sandu*

Rev.	Date	DRW	Check 1	Check 2	
					Marking Color: GREEN
					Weld Class: QXB-55-M
00	01/10/2024	RHA	AZA		Paint System: NR

Sergio Morales

Date: 23-10-24

A blue rectangular logo with a white border. Inside, the word "BIPROAMPAR" is written in a bold, sans-serif font, with "BIPRO" above "AMPAR". Below it, the words "Revolution Industrial" are written in a smaller, regular font. At the bottom, there is some smaller, illegible text.

Weld Map Sticker

P2308S 01149



2121-LO40B02-2-SP07-01149



Construction Code:	ASME B31.3	% RT -	YES	% UT -	NO	Hydro:	NO	ID Cleaning:	YES	Piece Mark	Ref. Drawing	Job #	Spool #	Project
Acc Criteria:	ASME B31.3	% PT -	YES	% FE -	NO	PWHT:	NO	OD Cleaning:	YES	2121-LO40B02-2-SP07-01149	2121-LO40B02-2	P2308S	01149	REPSOL PROJETO ALBA NERVION
Metal Tag:	YES	% MT -	NO	% PMI -	YES	BHN% -	NO	Tolerances:	ASME B31.3					

Spool Material List

Contract : P2308

Client NERVION

Job : P2308S

Project ALBA

Job	Spool	Piece Mark	Drawing	Rev				
Item No	Qty	Size1	Sch1	Size2	Description	Heat No	Unit	Weight
Tag No						MTR No	Weight	Kgs
ID No						Folder No		
P2308S	01149	2121-LO40B02-2-SP07-01149	2121-LO40B02-2	00				
1.4	3,845	2.0000	S10S	0.0000	NA PIPE, SEAMLESS, A312-TP304L	NY231216AS15 0391	3,93	15,11
40391								

On behalf of Tecnimont / R
 Piping Supervisor
 Cristi Sandu *C. Sandu*
 25.10.2024

Number of Items : 1 Total Weight : 15,11

Signature	QA	Client
		Sergio Morales Date: 23-10-24 
Date	2024-10-16 16:23:32	

 Stainless Steel Experience				 DNV				CERTIFICATO DI COLLAUDO WORK TEST CERTIFICATE				Delivery Note				CLIENTE: PANTALONE S.R.L. CUSTOMER VIA DON PRIMO MAZZOLARI, 21 - Z.I. SELVAIEZZI 66100 CHIETI (CHIETI SCALO) CH			
TECNICA TRE s.r.l. 36061 BASSANO DEL GR. -VI- Via delle Viole, 16 - Tel. +39 0424 Fax Sede legale: Via delle Viole, 16 36061 BASSANO DEL GR. -VI- Partita Iva 02523320246 - R.I. VI-1996-149				EN 10204/3.1 DIN 50049/3.1 NR. BD24016251 DEL 11/06/24				NR. BD24016251 DEL 11/06/24				RIF. DDT BD24016251							

ANALISI CHIMICA - CHEMICAL COMPOSITION

COLATA	QTA'	CODICE	DESCRIZIONE	MATERIALE	C%	Si%	Mn%	S%	P%	Ni%	Cr%	Mo%	Al%	Cu%	Ti%	N%
HEAT NO.	Q.TY	CODE	DESCRIPTION	MATERIAL	C%	Si%	Mn%	S%	P%	Ni%	Cr%	Mo%	Al%	Cu%	Ti%	N%
			Ns. Ordine Cliente Nr. OC24017381 del 11/06/24													
			Vs. Ordine Cliente Nr. 2024-BOF-0001035 del 11/06/24													
NY231216AS1 5	134,40	946#200010304	TUBO SMLS ASTM/ASME A/SA312/A999 2" (60.3) SCH10S (2.77) AISI 304/304L	TP304/304L-1.4301/1.4307	0,022	0,4	1,37	0,001	0,035	8,03	18,34					0,076
NY231216AS1 5	106,40	946#200010304	TUBO SMLS ASTM/ASME A/SA312/A999 2" (60.3) SCH10S (2.77) AISI 304/304L	TP304/304L-1.4301/1.4307	0,022	0,4	1,37	0,001	0,035	8,03	18,34					0,076

Note - Notes

Firma
Signature

I dati dell'analisi chimica e delle prove meccaniche corrispondono fedelmente al certificato inviato dal fabbricante del materiale base e/o dal laboratorio che ha effettuato le prove. I certificati sono conservati nel nostro archivio.
 The chemical analysis and mechanical properties fully comply with the certificate issued by the manufacturer of the basic material and/or by the laboratory carrying out test. The certificates are kept in our archives.

 TECNICATRE Stainless Steel Experience TECNICA TRE s.r.l. 36061 BASSANO DEL GR. -VI- Via delle Viole, 16 - Tel. +39 0424 Fax: Sede legale: Via delle Viole, 16 36061 BASSANO DEL GR. -VI- Partita Iva 02523320246 - R.I. VI-1996-149	CERTIFICATO DI COLLAUDO WORK TEST CERTIFICATE EN 10204/3.1 DIN 50049/3.1 NR. BD24016251 DEL 11/06/24	Delivery Note NR. BD24016251 DEL 11/06/24	CLIENTE: PANTALONE S.R.L. CUSTOMER VIA DON PRIMO MAZZOLARI, 21 - Z.I. SELVAIEZZI 66100 CHIETI (CHIETI SCALO) CH
			RIF. DDT BD24016251

CARATTERISTICHE MECCANICHE - MECHANICAL TEST

COLATA Heat no.	SNERVAMENTO yield point - N/mm ²	ROTTURA tensile - N/mm ²	ALLUNGAMENTO elongation - %	CONTRAZIONE red of area - %	DUREZZA hardness - %
NY231216AS15	320,0	545,0	44,5	0,0	0,0
NY231216AS15	320,0	545,0	44,5	0,0	0,0

Note - Notes

Firma
Signature

I dati dell'analisi chimica e delle prove meccaniche corrispondono fedelmente al certificato inviato dal fabbricante del materiale base e/o dal laboratorio che ha effettuato le prove. I certificati sono conservati nel nostro archivio.
The chemical analysis and mechanical properties fully comply with the certificate issued by the manufacturer of the basic material and/or by the laboratory carrying out test. The certificates are kept in our archives.



Contract : P2300

Drawing : 2121-LO40B02-2

Welding and QC Report Per Spool

Job : P2300S

Material : Stainless Steel 304, 316, 317

Client : NERVION

Revision : 00

Project : ALBA

Piece Mark : 2121-LO40B02-2-SP07-01149

Spec : QXB-55-M

Weld data

Welding

Control

Weld No.	Type	Dia	Sch	Weld /Thk	1st Proc.	Pass	1st MTR	Final Pass	Final MTR	Dim	Date DIM	Visual	Date Visual	PT	Date PT	MT	Date MT	PMI	Date PMI	Ferite	Date Ferrite	PWHT	Date PWHT	BHN	Date BHN	Ultra	Date UT	Xray	Date Xray
0016	SP	2	S10S								001101	09-10-2024																	

On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu *C. Sandu*
25.10.2024

Notes:

Boccard Portugal QC	Client
 Sergio Morales	Date: 23-10-24
Signature	
Date	16-10-2024 16:23:32



Shop QC Inspection Report

P2308-001145

Client : NERVION
 Contract : P2308 / Project : ALBA
 Material: Stainless Steel 304, 316, 317

Job number: P2308S
 Spool N°: 01149
 Piece Mark: 2121-LO40B02-2-SP07-01149

Procedure / Instruction reference: 20.2 IT 011 MF 324 - Rev: A

Control Date: 09-10-2024

Remarks: The results refer to the controlled items

Actions / Tasks List	Required		Done/ Identified
	Yes	No	
Welder / weld list labels printed and pasted on the spool sheet	X		X
Spool Barcode label printed	X		X
Spool is identified with the metal tag	X		X
Spool stencil required (hard stamp low stress)		X	
Joint preparation & cleanliness / spool dimensions checked	X		X
Level, plumb, Two holes, flanges and internal alignment, Squareness	X		X
Material checked (type of material, rate, heat numbers, filler material, etc.)	X		X
Welders list match with actual welder stencil / Id. on pipe	X		X
PWHT- Spool identified as per Procedure / Instruction for PWHT		X	
HT (Hardness Test)- Welds identified as per Procedure / Instruction		X	
MT - Welds identified as per Procedure / Instruction		X	
PT - Welds identified as per Procedure / Instruction		X	
PMI - Welds identified as per Procedure / Instruction	X		X
FE (Ferrite test) - Welds identified as per Procedure / Instruction		X	
RT - Welds identified as per Procedure / Instruction		X	
UT - Welds identified as per Procedure / Instruction		X	
Spool identified (by marker) as per Procedure / Instruction (Job number, sheet number and Paint type if required)	X		X
Hydro - Spool identified as per Procedure / Instruction		X	
Cleanliness - Cleaned inside free of slag, scale, sand, weld spatter, cutting chips, etc. and blow out by compressed air	X		X

Comments:

Performed by: MATOS, MARCO (N2 VT/PT) Date: 09-10-2024 Signature 	QA/QC Inspection: RAIMUNDO, MARIANA Date: 16-10-2024 16:23:32 Signature 	Customer Inspection: Sergio Morales Date: 23-10-24 
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On behalf of Tecnimont / R
 Piping Supervisor
 Cristi Sandu
 25.10.2024 



Positive Material Identification Report (PMI)

P2308-001173

Client : NERVION
 Contract : P2308 / Project : ALBA

Remarks: The results refer to the controlled items

Job number: P2308S

Spool N°: 01149

Piece Mark: 2121-LO40B02-2-SP07-01149

Material:

Procedure / Instruction reference: 4274-LZ-VF-FW31010370QAC11 - Rev: 1

PMI Equipment : Niton XL3t800 Serial N° 32735 (FP01)

Equipment Deviation : + - 5%

Testing Date: 14-10-2024

Weld / Item No	Description	Reading Number	Chemical Elements										Accepted	Rejected	Comments
			%Ti	%Mo	%Cu	%Ni	%Fe	%Mn	%Cr	%Nb	%Al	%V			
1.4	2.0000 S10S PIPE, SEAMLESS, A312-TP304L (NY231216AS15)	18	0	0	0	7	72	1	17	0	0	0	<input checked="" type="checkbox"/> X	<input type="checkbox"/>	

On behalf of Tecnimont / R
 Piping Supervisor
 Cristi Sandu
 25.10.2024

Test Performed by: GONCALVES(QA), J. (N2 PT/RT) QA/QC Inspection: RAIMUNDO, MARIANA

Date: 14-10-2024

Signature



Date: 16-10-2024 16:23:32

Signature



Customer Inspection:

Sergio Morales

Date:



Signature Date: 23-10-24

Boccard Portugal, Lda
Zona Industrial de Montalvo, Lote 3
Constância, Portugal 2250-999

Certificate of PMI Reading

XL3t-32735

Reading No	18
Mode	ALLOY
Time	2024-10-14 09:10
Duration	11.57
Sequence	Final
Alloy1	301SS : 0.94
Alloy2	No Match : *2.67
Flags	
SAMPLE	
HEAT	
LOT	
BATCH	
MISC	
NOTE	

	%	±	Error
Sb	< LOD	:	0.036
Sn	< LOD	:	0.049
Pd	< LOD	:	0.036
Ag	< LOD	:	0.165
Al	< LOD	:	80.000
Mo	0.023	±	0.006
Nb	< LOD	:	0.004
Zr	< LOD	:	0.005
Bi	< LOD	:	0.007
Pb	< LOD	:	0.009
Se	< LOD	:	0.007
W	< LOD	:	0.090
Zn	< LOD	:	0.029
Cu	< LOD	:	0.137
Ni	7.808	±	0.271
Co	< LOD	:	0.463
Fe	72.303	±	0.420
Mn	1.569	±	0.189
Cr	17.606	±	0.240
V	0.142	±	0.064
Ti	< LOD	:	0.123

Sergio Morales



Date: 23-10-24

On behalf of Tecnimont / R
Piping Supervisor
Cristi Sandu
25.10.2024 C. Sandu