



1. INSPECTION REPORTS TAG N° 29589



1.1 DATA REPORT

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by FIMA S.A. Jr. Víctor Andrés Belaunde 852 Carmen De La Legua Reynoso Callao 3 PERU
(Name and address of Manufacturer)

2. Manufactured for PETROPERU Canaval y Moreyra 150 San Isidro Lima- Perú

3. Location of installation Operaciones Conchán: Km.26.5 Antigua Panamericana Sur Lurín, Lima-Perú
(Name and address)

4. Type: Vertical SO-29589 NA HC-117734 Rev. 2 NA 2012
(Horizontal or vertical, (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1

to 2009 NA NA
(Addenda (date)) (Code Case numbers) (Special service per UG-120(d))

6. Shell: See Remark 3 See Remark 3 See Remark 3 See Remark 3 See Remark 3
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))

7. Seams: Type 1, dbl., Butt. Full 1 None NA Type 1, dbl., Butt. Full 1 15
(Long, (welded, dbl., singl., lap, butt)) (R.T. (spot or full)) (Eff., %) (H.T. temp.) (Time, hr) (Girth (welded, dbl., singl., lap, butt)) (R.T. (spot or full)) (Eff., %) (No. of courses)

8. Heads: (a) Material SB 127 Annealed N04400 (b) Material SA 516 Gr 485N
(Spec. no., grade) (Spec. no., grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	11.18 mm	1.59 mm	NA	NA	2:1	NA	NA	NA	Concave
(b)	Bottom	16.39 mm	3.18 mm	-NA	NA	2:1	NA	NA	NA	Concave

If removable, bolts used (describe other fastenings) NA

9. MAWP 483 kPa NA at max. temp. 371 °C
(Internal) (External) (Material spec. number, grade, size, number) (Internal) (External)

Min. design metal temp. -46.3 °C at 483 kPa. Hydro., pneu., or comb. test pressure Hydro. 689.67 kPa

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Gas Outlet	2	DN 300	CL 150 WN RF	SB 127 Gr.04400	SB 564 Gr.04400	17.48 mm	1.59 mm	SB 127 Gr.04400	Fig.UW-16.1(c)	Fig.2-4(6a)	-----
Vent	1	DN 50	CL 150 SO RF	SB 165 Gr.04400	SB 564 Gr.04400	5.54 mm	1.59 mm	SB 127 Gr.04400	Fig.UW-16.1(c)	Fig.2-4(3)	-----
Product Inlet	3	DN 100	CL150 LWNRF	-----	SA 105M	19.05mm	1.59 mm	SA 516M Gr485N	Fig. UW 16 (c)	Integral	-----
Instruments	2	DN 25	CL 6000 WB	SA 105M	-----	-----	1.59 mm	-----	Fig.UW-16.1(c)	-----	-----
T1-T2-T3	3	DN 100	CL150 LWNRF	-----	SA 105M	19.05mm	1.59 mm	SA 516M Gr485N	Fig. UW 16 (c)	Integral	-----
Instruments	8	DN 20	CL 6000 WB	SA 105M	-----	-----	1.59 mm	-----	Fig.UW-16.1(c)	-----	-----
Steam	1	DN 75	CL 150 WN RF	SA 106 Gr. B	SA 105M	11.13 mm	1.59 mm	SA 516M Gr485N	Fig.UW-16.1(c)	Fig.2-4(6a)	-----
Reflux	1	DN 100	CL 150 WN RF	SB 165 Gr.04400	SB 564 Gr.04400	8.56 mm	1.59 mm	SB 127 Gr.04400	Fig.UW-16.1(c)	Fig.2-4(3)	-----
Reflux	2	DN 100	CL150 LWNRF	-----	SA 105M	19.05mm	1.59 mm	SA 516M Gr485N	Fig. UW 16 (c)	Integral	-----
Manhole	1	DN 500	CL 150 WN SO	SB 127 Gr.04400	SB 564 Gr.04400	12.7 mm	1.59 mm	SB 127 Gr.04400	Fig.UW-16.1(c)	Fig.2-4(6a)	Shell
Manhole	5	DN 500	CL 150 WN RF	SA 516M Gr485N	SA 105M	12.7 mm	1.59 mm	SA 516M Gr485N	Fig.UW-16.1(c)	Fig.2-4(6a)	Shell
Instruments	2	DN 50	CL 150 WN RF	SA 106 Gr. B	SA 105M	8.74 mm	1.59 mm	SA 516M Gr485N	Fig.UW-16.1(c)	Fig.2-4(6a)	-----
Flash / Steam Inlet	2	DN 250	CL 300 WN RF	SA 106 Gr. B	SA 105M	21.44 mm	1.59 mm	SA 516M Gr485N	Fig.UW-16.1(c)	Fig.2-4(6a)	-----
Drain	1	DN 100	CL 300 WN RF	SA 106 Gr. B	SA 105M	8.56 mm	1.59 mm	SA 516M Gr485N	Fig.UW-16.1(c)	Fig.2-4(6a)	-----
Colector	3	DN 150	CL 150 WN RF	SA 106 Gr. B	SA 105M	10.97 mm	1.59 mm	SA 516M Gr485N	Fig.UW-16.1(c)	Fig.2-4(6a)	-----

11. Supports: Skirt YES Lugs 3 Legs No Others No Attached Welded to Bottom Head / Shell
(Yes or no) (Number) (Number) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: NA
(Name of part, item number, Manufacturer's name and identifying stamp)

- 1) Impact Test exempted by UG 20(f) and Fig. UCS 66 Note (c)
- 2) Safety Valve to be provided and installed by the client.
- 3) Attached FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
- 4) Hydrostatic test performed in the Horizontal position.

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by FIMA S.A. Jr. Víctor Andrés Belaunde 852 Carmen De La Legua Reynoso Callao 3 PERU
(Name and address of Manufacturer)

2. Manufactured for PETROPERU Canavai y Moreyra 150 San Isidro Lima- Perú

3. Location of installation Operaciones Conchán: Km.26.5 Antigua Panamericana Sur Lurin, Lima-Perú
(Name and address)

4. Type: Vertical Columna de Destilación Primaria SO-29589
(Horizontal or vertical, tank) (Tank, Separator, heat excha., etc.) (Manufacturer's serial number)

NA HC-117734 Rev. 2 NA 2012
(CRN) (Drawing number) (National Board number) (Year built)

Data Report

Item Number	Remark
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Form U-1 (a) Number of course(s) 15 (b) Overall Length 31093 mm

Item 6 (Shell)	Course(s)			Material	Thickness		Long. Joint (Cat.A)			Circum. Joint (Cat. A, B & C)			Heat treatment	
	No.	Diameter	Length	Spec./Grade or type	Nom.	Corr.	Type	Full, Spot, None	Eff	Type	Full, Spot, None	Eff	Temp.	Time
	2	1981 mm	3699 mm	SB 127 Annealed N04400	7.93mm	1.59mm	1	Full	1	1	Full	1	NA	NA
	4	1981 mm	8580 mm	SA 516 Gr. 485N	9.52mm	3.18mm	1	Full	1	1	Full	1	NA	NA
	5	1981 mm	10174 mm	SA 516 Gr. 485N	12.7mm	3.18mm	1	Full	1	1	Full	1	NA	NA
	4	1981 mm	8639 mm	SA 516 Gr. 485N	15.9mm	3.18mm	1	Full	1	1	Full	1	NA	NA

Certificate of Authorization: Type "U" No. 34861 Expires November 29, 2013

Date October 31, 2012 Name FIMA S.A. Signed Alex Lozano LL.
(Manufacturer) (Representative)

Date December 12, 2012 Name [Signature] Commissions NB.10709 IS/A/B -VA643R
(Authorized Inspector) (National Board (incl. endorsements), State, Province, and number)