

117

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

1. Manufactured and certified by A.F. INDUSTRIES, INC., 209 FAIRLANE DRIVE, LAFAYETTE, LOUISIANA 70507  
(Name and address of manufacturer)

2. Manufactured for A.F. Industries, Inc., 209 Fairlane Drive, Lafayette, LA 70507  
(Name and address of purchaser)

3. Location of installation Unknown, Stock Equipment  
(Name and address)

4. Type Horizontal 3407C NA AFI 3407-501 Rev 0 255 1998  
(Horiz. or vert. tank) (Mfg's serial No.) (CRN) (Drawing no.) (Nat'l Bd. No.) (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  
Year 1995

to 1997 NA None  
Addenda (Date) Code Case Nos. Special Service per UG 120(d)

6. Shell: SA-516-70N 2.250 0.125 48"OD 10'0" S/S  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Dbl Weld Full 100 1150 2.25 Sngl Weld Full 1  
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp (F) Time (hr) Girth (welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA-516-70N (b) Mat'l. SA-516-70N  
(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)	End	2.143	0.125	-	-	2:1	-	-	-	Concave
(b)	End	2.143	0.125	-	-	2:1	-	-	-	Concave

If removable, bolts used (describe other fastenings) NA  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 1480 psi at max. temp. 100 ° F  
Min. design metal temp. 0 ° F at 1480 psi. Hydro., ~~proof~~, or ~~other~~ test pressure 2220 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
Inlet	1	8"	RFLWN	SA-105	1.38	Weld	* c	Head (a)
Gas Outlet	1	8"	RFHN	SA-105	2.16	Weld	* c	Shell
Oil Out **	1	2"	RFWN	SA-105/SA-106 Gr B	0.436	Weld	* c	Shell
Wtr Out **	1	2"	RFWN	SA-105/SA-106 Gr B	0.436	Weld	* c	Shell

11. Supports: Skirt No Lugs 2 Legs 0 Other Saddles Attached Shell, Welded  
(Yes or no) (No.) (No.) (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 this report:  
Shell, 6, LaBarge Pipe & Steel Company, 11,876, SN K-262-01-1  
(Name of part, item number, Mfr's name and identifying stamp)

48"OD x 10'0" S/S Horizontal 3-Phase Separator  
Impact testing exempt per Fig. UCS-66 & UCS-66(b)  
Item 10 continued on Form U-4 \* See Fig. UW-16.1 w/Internal Projection

**CERTIFICATE OF SHOP COMPLIANCE**

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 21411 expires August 19 2001.

Date 3-4-99 Co. Name A.F. INDUSTRIES, INC. Signed Frank E. Lemans  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by A.F. INDUSTRIES, INC. at 209 FAIRLANE DRIVE, LAFAYETTE, LA 70507  
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of LA and employed by Commercial Union Insurance Company Boston, MA 02108 have inspected the component described in this Manufacturer's Data Report on 03/04/99 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 03/04/99 Signed John A. Bazzani Commissions ND11522A/B LA1209  
(Authorized Inspector) (Nat'l Board (incl. endorsements) State, Prov. and No.)

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

27

1. Manufactured and certified by A.F. INDUSTRIES, INC., 209 FAIRLANE DRIVE, LAFAYETTE, LOUISIANA 70507

(Name and address of Manufacturer)

2. Manufactured for A.F. Industries, Inc., 209 Fairlane Drive, Lafayette, LA 70507

(Name and address of Purchaser)

3. Location of Installation Unknown, Stock Equipment

(Name and address)

4. Type: Horizontal  
(Horiz., vert., or sphere)

3-Phase Separator  
(Tank separator, heat exch., etc)

3407C  
(Mfg's serial No.)

NA  
(CRN)

AFI 3407-501 Rev 0  
(Drawing No.)

255  
(Nat'l. Bd. No.)

1998  
(Year built)

Data Report Item Number	Remarks
-------------------------	---------

10. Nozzles, inspection and safety valve openings:

Relief	1	3"	RFHN	SA-105	1.24	Weld	* c	Shell
Cleanout	2	2"	RFLWN	SA-105	0.66	Weld	* c	Shell
Drain	2	2"	RFWN	SA-105/SA-106 Gr B	0.436	Weld	* c	Shell
Oil LLC	1	4"	RFHN	SA-105	1.62	Weld	* c	Shell
Wtr LLC	1	6"	RFLWN	SA-105	1.38	Weld	* c	Shell
Oil LSHL/LG ***	2	2"	RFWN	SA-105/SA-106 Gr B	0.436	Weld	* c	Shell
Wtr LSL/LG ****	2	2"	RFWN	SA-105/SA-106 Gr B	0.436	Weld	* c	Head (b)
PSE	1	2"	RFLWN	SA-105	0.66	Weld	* c	Shell
Manway	1	16"	RFHN	SA-105	2.69	Weld	* c	Shell
Blowdown	1	1"	CPLG	SA-105	6000#	Weld	* y-1	Shell
PI	1	1/2"	CPLG	SA-105	6000#	Weld	* y-1	Shell
TI	1	3/4"	CPLG	SA-105	6000#	Weld	* y-1	Shell
Interface LG	2	3/4"	CPLG	SA-105	6000#	Weld	* y-1	Shell

\*\* Configuration of Oil & Wtr Out: 2" SA-105 Flange, 2" SA-234-WPB Weld Tee, 2" SA-106 Gr B Pipe

\*\*\* Configuration of Oil LSHL/LG: 2" SA-105 Flange, 2" SA-106 Gr B Pipe

\*\*\*\* Configuration of Wtr LSL/LG: 2" SA-105 Flange, 2" SA-234-WPB Weld Elbow, 2" SA-106 Gr B Pipe

Certificate of Authorization: Type U No. 21,411 Expires August 19 2001

Date 3-4-99 Name A.F. INDUSTRIES, INC.  
(Manufacturer)

Signed Frank E. Lemaire  
(Representative)

Date 03/20/99 Name John M. Lemaire  
(Authorized Inspector)

Commission UB11527A/B LA 1289  
(Nat'l Board (incl. endorsements) State, Province and No.)

3/7

[illegible]

**Form U-2 (Back)**

15. Heads (a) \_\_\_\_\_ (b) \_\_\_\_\_  
(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp

[illegible]

If removable, bolts used (describe other fastening)

(Mat'l Spec. No., Grade, Size, No.)

16. MAWP \_\_\_\_\_ psi at max. temp \_\_\_\_\_ °F Min. design metal temp. \_\_\_\_\_ °F at \_\_\_\_\_ psi  
           (internal)         (external)         (internal)         (external)

## 17. Impact test

(indicate yes or no and the component(s) impact tested)

18. Hydro., pneu., or comb. test press. Proof test

19. Nozzles, inspection, and safety valve openings:

[illegible]

20. Supports: Skirt \_\_\_\_\_ (Yes or No) Lugs \_\_\_\_\_ (No.) Legs \_\_\_\_\_ (No.) Others \_\_\_\_\_ (Describe) Attached \_\_\_\_\_ (Where and How)

21. Remarks: FOR INFORMATION ONLY:

The weld procedure used on this item has also been qualified in a post weld heat treated condition.

Certified to material & workmanship only.

2.088 min. wall

## CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

U Certificate of Authorization No. 11,876 Expires July 19, 2001

Date 11-10-98 Name LaBarge Pipe & Steel Company Signed Robert J. Betts  
(Manufacturer) (Representative)

## CERTIFICATE OF SHOP/FIELD INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of OK and employed by Arkwright Mutual Insurance Company of Waltham, MA have inspected the pressure vessel part described in this Manufacturer's Data Report on 11-10, 1998, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel part described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-10-98 Signed  Commissions OK # 697  
(Authorized Inspector) (Nat'l Board incl. endorsement, State, Province and No.)