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. Mar	nufactured and ce	rtified by A	.F. INDUS	STRIES, INC.	, 209 FAIRLAN	IE DRIVE, LAF	AYE1	TE, LOUI	SIANA 70507 ss of manufacturer)			
2. Mar	nufactured for A	.F. Industri	es, Inc.,	209 Fairlane I	Drive, Lafayett	e, LA 70507		d address of	·			
3. Loc	ation of installatio	n <u>Unknowr</u>	n, Stock E	quipment		(140		Name and ad	,			
4. Typ	e Horiz	ontal		34	107C		NA		AFI 340	7-501 Rev 0	255	1998
	(Horiz. or chemical and	vert. tank)	properties	(Mfg's seria	al No.) rts meet the	requirements	(CRN)		IDra	wing no.) the ASME BO	(Nat'l Bd. No DILER AND F	.) (Year built) PRESSURE
VE	SSEL CODE. 1	he design	, construc	ction, and w	orkmanship co	onform to ASME	E Rul	es, Section	on VIII, Division	1	1995	
to		1007			NA					None	Year	
ιο	Adde	nda (Date)			Code Case Nos.				Sį	ecial Service per UG 1	20(d)	
6. She	ell:	SA-516-70N (Spec. No., G	1		2.250			0.125		48"OD Diam. I.D. (ft. & in.)		10'0" S/S ngth (overall) (ft. & in.)
7. Sea	Mati. 2ms: Dbl \	(Spec. No., G Mold	rade)	iuli	Nom. Thk. (in.) 100	1150		Allow. (in.) 2.25	Sngl Weld		Lei	1
7. Sea	Long, (Wel	ded, Dbl.,				I.T. Temp (F)		ime (hr)	Girth (welded, Dbl.	R.T. (Spot, F		No. of Courses
8. Hea	Sñgl., La ads: (a) Matl.			SA-516	-70N			(b) Matl.	Sngl., Lap, Butt)	SA-5	16-70N	
Г				(Spec No.,		1				(Specin	o., Grade)	1 6:1 1 5
İ	Location (Top, Bottom, Ends)	Minimur Thicknes	1	Corrosion Illowance	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 (des	cribe othe	r fastenings)	···				NA			
		,							(Matl., Spec. No.,			°F
9. MA				480		psi at ma				100	0000	<u> </u>
	n. design metal tei		0		F at1480) psi. F	lydro.	., <i>†</i> pneu.,	or dalimbil test p	ressure	2220	psi.
10. N	ozzles, inspection Purpose		vaive ope Diam.	enings.				Nom.	Re	nforcement	How	
(Inl	let, Outlet, Drain)		r Size	Туре		Mat'l.		Thk.		Mat'l.	Attached * c	Location
	Inlet	1	8"	RFLWN	 	SA-105		1.38		Weld	* c	Head (a) Shell
	Gas Outlet	1	8"	RFHN		SA-105		2.16 0.436		Weld	* c	Shell
	Oil Out **	1	2"	RFWN RFWN	+	/SA-106 Gr B /SA-106 Gr B		0.436		Weld	*c	Shell
L	Wtr Out **	<u> </u>		L	_L				Saddles			shell, Welded
	upports: Skirt	(Yes o	r no)		2 Legs	0 (No.)	_	ther	(Describe)	Attacl	(\(\bar{V}\)	Vhere and how)
	emarks: Manufac	turer's Part	ial Data R						spectors have be	en furnished for th	e following item	ns of this report:
She	II, 6, LaBa	rge Pip	e & S	teel Com	pany, 11, (Name of na	876, SN K irt, item number, Mf	- 26: ar's nai	2 - 01 - 1 me and identi	fving stamp)			
	OD x 10'0"				se Separa	tor						
	act testing											
Itei	m 10 contin	ued on	Form (U-4	* See Fi	g. UW-16.	1 W	/Inter	nal Projec	tion		
					CERT	IFICATE OF S	SHOF	COMPLI	IANCE	Maria and made	A.L	versal saufama to
the	certify that the ASME Code for P	statements ressure Ve	s made ir ssels. Se	n this report ction VIII. Div	are correct a ision 1, "U" Ce	nd that all detail ertificate of Auth	iis ot noriza	aesign, m i tion N o.	iateriai, construc 21,411	tion, and working expires	ayısnıp or this August	vessel conform to
								_		Signed - The	11/1/19	Lemano
Dat	e <u>3-4-99</u>	CO. Na	e		A.r.	(Manufacturer)	IIVO.			Signed 9 100	(Represen	tative)
						TIFICATE OF	SHO	P INSPEC		OOO EAIDI ANE E	NDI) /E A EAN/E	TTE 1 4 70507
Ves	ssel constructed b he undersigned,	y holding a	valid com	nmission iss	A.F. INDUSTRued by The N	IES, INC. Jational Board	l of E	Boiler and	at Pressure Vess	209 FAIRLANE D	nd the State	or Province of
', "		and employ		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	Jnion Insurance				Boston, M		have inspected
the	component descr		-	urer's Data R		030			and	state that, to the b	est of my know	ledge and belief, the
Mai	nufacturer has co	onstructed v warrantv	this pres	sure vessel i	n accordance to	with ASME Coo	le, Se sel de	ection VIII, escribed in	this Manufacture	er's Data Report.	Furthermore, n	e Inspector nor his either the Inspector ection.
1	e 03019			John	(Authorized Insp	San	7					
			-				1					

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



Manufactured and certifie	- المارية المارية -	Inc. 000 E	sidono Delvo I	afayette, LA 70507	s of Manufacturer)			
Manufactured for A.F	industries,	inc., 209 Fa	amane Drive, L	(Name and address of I	Purchaser)			
Location of Installation	Unknown	, Stock Equi	pment	(Name and a	ddraee)	***		
Type:	Horizontal			3-Phase Separator	uuiessy		34	107C
Hor	iz., vert., or sphe	re)		(Tank separator, heat exh., etc)			(Mfg's se	
NA		·	AFI 340	7-501 Rev 0	255			1998
(CRN	4)	-	(Drav	wing No.)	(Nat'l. Bd. No.)		(Year built)
Data Report Item Number				Remark	(S			
. Nozzles, in	spection	and sa	fety valv	e openings:				
olief	1	3"	RFHN	SA-105	1.24	Weld	* C	Shell
leanout	2	2"	RFLWN	SA-105	0.66	Weld	* C	Shell
ain	2	2"	RFWN	SA-105/SA-106 Gr B	0.436	Weld	* c	Shell
I LLC	1	4"	RFHN	SA-105	1.62	Weld	* C	Shell
r LLC	-	6"	RFLWN	SA-105	1.38	Weld	* C	Shell
II LSHL/LG ***	2	2"	RFWN	SA-105/SA-106 Gr B	0.436	Weld	* C	Shell
tr LSL/LG ****	2	2"	RFWN	SA-105/SA-106 Gr B	0.436	Weld	* C	Head (b)
SE	1	2"	RFLWN	SA-105	0.66	Weld	* C	Shell
anway	1	16"	RFHN	SA-105	2.69	Weld	* C	Shell
lowdown	- i	1"	CPLG	SA-105	6000#	Weld	* y-1	Shell
1	1	1/2"	CPLG	SA-105	6000#	Weld	* y-1	Shell
		3/4"	CPLG	SA-105	6000#	Weld	* y-1	Shell
!	1	3/4	GELG					
nterface LG	n of Oil	3/4" & Wtr O LSHL/L	CPLG ut: 2" S G: 2" SA	SA-105 A-105 Flange, 2" SA-23 -105 Flange, 2" SA-106 -105 Flange, 2" SA-234	6000# 4-WPB Weld Gr B Pipe			
terface LG Configuration * Configuratio	2 of Oil n of Oil	3/4" & Wtr O LSHL/L	CPLG ut: 2" S G: 2" SA	SA-105 A-105 Flange, 2" SA-23 -105 Flange, 2" SA-106	6000# 4-WPB Weld Gr B Pipe	Tee, 2" S	A-106 Gr	B Pipe
terface LG Configuration Configuration	2 of Oil n of Oil	3/4" & Wtr O LSHL/L	CPLG ut: 2" S G: 2" SA	SA-105 A-105 Flange, 2" SA-23 -105 Flange, 2" SA-106	6000# 4-WPB Weld Gr B Pipe	Tee, 2" S	A-106 Gr	B Pipe
nterface LG * Configuration ** Configuratio	2 of Oil n of Oil	3/4" & Wtr O LSHL/L	CPLG ut: 2" S G: 2" SA	SA-105 A-105 Flange, 2" SA-23 -105 Flange, 2" SA-106	6000# 4-WPB Weld Gr B Pipe	Tee, 2" S	A-106 Gr	B Pipe
nterface LG * Configuration ** Configuratio	2 of Oil n of Oil	3/4" & Wtr O LSHL/L	CPLG ut: 2" S G: 2" SA	SA-105 A-105 Flange, 2" SA-23 -105 Flange, 2" SA-106	6000# 4-WPB Weld Gr B Pipe	Tee, 2" S	A-106 Gr	B Pipe
* Configuration ** Configuratio *** Configurati *** Configurati	of Oil n of Oil on of Wt	3/4" & Wtr O LSHL/L	CPLG ut: 2" S G: 2" SA	SA-105 A-105 Flange, 2" SA-23 -105 Flange, 2" SA-106	6000# 4-WPB Weld Gr B Pipe -WPB Weld	Tee, 2" S	A-106 Gr	B Pipe
** Configuratio	of Oil n of Oil on of Wt	3/4" & Wtr O LSHL/L	CPLG ut: 2" S G: 2" SA G: 2" SA	SA-105 A-105 Flange, 2" SA-23 -105 Flange, 2" SA-106 -105 Flange, 2" SA-234	6000# 4-WPB Weld Gr B Pipe -WPB Weld	Tee, 2" S Elbow, 2"	SA-106 Gr	B Pipe r B Pipe

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

n/n

1. M	anufactured and	certified	by .	LaBarge Pipe & S	teel Compa	ny, 1300	N. LaB (Name	Barge and	e Avenue, V d address of	Vagor Manu	ner, Ok Ifacture	lahoma 74 r)	167			,,	<u></u>
2. M	anufactured for	A. F.	Indust	ries	209 Fairl	ane Drive	(Nan		Lafayette, L nd address)		· · · · · · · · · · · · · · · · · · ·			·
3. Lo	ocation of installa	ntion							Unkno (Name and		ess)	<u></u>					
4. Ty	/pe: (Des	cription o	f vesse	Shell I part (shell, two-pie	ce head, tul	oe bundle))		K26 (Mfg's	2-01- serial					N/A (CRN)		
	N//			K262					LaBarge	e Pipe	& Stee	el Company				19	98
-	(Nat'l. Bo			(Drawing								red by)				(Year	built)
5. A	SME Code, Section	on VIII, D	iv. 1	Editio	1995 on and Adde	1997 enda (date	!)			Cod	N/A e Case	No.		Special	N// Service	A per UG-12	O(d)
Item	s 6 – 11 incl. to t	oe comple		single wall vessels,							rs, or c	hamber of m	ıulti-cha	mber ve	ssels.		
6. SI	nell (a) No. of co	ourse(s):		11	(b) O	verall leng	th ft &	in.:	1 @ 10'-	0"				-			
	Course(s)		Material	Thick				ong Joint (C					Cat. A, E			eatment
No.	Diameter, in. 48 OD	Length ft	t & in.	Spec./Grade or Type SA516-70N	Nom. 2.250	Corr.	Тур 1		Full, Spot, No FULL	one	Eff. 100	Type N/A	+	ot,None /A	Eff. N/A	Temp N/A	Time N/A
1	46 00	10	U	3A310-70N	2.230	-			, oer		100	1,77.		,	1.77.1		
7 H	eads: (a)							(b)								
7. 11	caus. (a)	(Ma	t'i Spec	. No., Grade or Type)	H.T Time	& Temp		_ (-			(Mat'l S	Spec. No., Gra	de or Ty	/pe) H.T.	- Time 8	Temp	
	Location (Top,	Thick	kness	Radius	Elliptica	I Conic	cal	Hen	nispherical	Fla	it	Side to Pres	sure		Cat	egory A	
	Bottom, Ends)	Min.	Corr.		e Ratio	Apex A	ngle		Radius	Diam	eter	Convex C	oncave	Туре	Full, S	pot, None	Eff.
(a) (b)															1	· · · · · · · · · · · · · · · · · · ·	-
	novable, bolts us			er fastening)				Ja	(Mat'l		No., G	rade, Size, N					
												· (Descr	ibe as c	gee & w	eld, bar,	etc.)	
I	f bar, give dimer	nsions _												I	f bolted,	describe o	or sketch.
9. M	(interna	ıl)	(exte	· ·	nax. temp	(Intern	al)	_	(external)		F Min.	design metal	temp.		°F a	at	psi
10.	Impact test					(indicate	ves or i	no ar	nd the compo	nent(s	s) impac	t tested)					
11.	Hydro., pneu., or	comb. te	est pres	SS.		•	Proof te										
Item	s 12 and 13 to be	e complet	ted for	tube sections.													
12. 7	Tubesheet:	ationary (f	Mat'l Sp	ec. No.) Dia.,	in. (subject	to press.)	. —	N	Nom. thk., in.			Corr. Allow.	in.	A	ttachmer	nt (welded	or bolted)
_	Floating (Ma	at'l Spec. N	No.)	DI	a., In.			Nom	. thk., in.			Corr. Allow.	in.		,	Attachment	
13.	Tubes: Mat'l	Spec No.,	, Grade	or Type	O.D., in.	!	No	m, th	hk., in. or ga	uge	. —	Number		_	Туре	(Straight o	or U)
Item	s 14 – 18 incl. to	be comp	leted fo	or inner chambers of	jacketed ve	essels or c	hannels	s of I	heat exchan	gers.							
14.	Shell (a) No. o	f course(s	s):		 	((b) Ove	rall l	length (ft &	in.):							
Γ	Course((s)		Material	Thick	ness		L	ong Joint (C			Circun		Cat. A, I	3 & C)	Heat Ti	eatment
No.	Diameter, in.	Length fl	t & in.	Spec./Grade or Type	Nom.	Corr.	Тур		Full, Spot, N		Eff.	Туре	Full,Sp	ot,None	Eff.	Temp	Time
-																	

Form U-2 (Back)

J. 116	ads (a)						Q. Tamp	(b)	(Ma	t'l Spec. No.,	Grado or Ti	vpe) H.		Temn	
		(1	Mat'l Spec	No., Grad	le or Type)	H.I. – IIme	e & remp		(Ina	ti spet. No.,	Graue or 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. I. – I ime &	Citip	
	Location (Top,		kness		idius	Elliptical	Conical	Hemispherical	Flat	Side to P	ressure		Cate	gory A	
1)	Bottom, Ends)	Min.	Corr.	Crown	Knuckle	Ratio	Apex Angle	Radius	Diameter	Convex	Concave	Type	Full, Sp	ot, None	Ef
mov	able, bolts us	ed (descr	iha othar	factoning)				.				 !		
.11104	abic, boits as	ca (acsa	ibe outer	rastering	,	•		(Mat	1 Spec. No	Grade, Size	No.)				
MAV	VP				psi at ma:	v tamn				ı. design met			°F at		
	(interna		(extern	al)	psi ut ma.	. temp _	(internal)	(external)	ii desigii iilee	ar cemp. –		I at		
T									•						
7111	pact test						indicate ves or	no and the comp	onent(s) imr	act tested)					
						`	, , , , , , , , , , , , , , , , , , , ,			ade tebleay					
•	ro., pneu., or		•					Proof test							
Noz	zles, inspectio	n, and sa	ifety valv	e opening:	5:										
	Purpose (inlet,			iameter	Flange	1	1aterial	Nozzle Thick	ness I	Reinforcemen	t H	low Atta	ached	Locati	ion
O	utlet, Drain, etc	:. N	lo.	Or Size	Туре	Nozzle	: Flange	Nom.	Corr.	Material	Noz	zle	Flange	(Insp. O	pen.)
_															
_															
					<u></u>										
					<u> </u>							1			
			ATION C		(No.)	Leg	(No.)	Others	(D	escribe)		Attache		here and F	low)
	arks: FOR The quali	INFORM weld pro fied in a	ATION C cedure u post wel	NLY: sed on th d heat tre		s also beei	(No.)	Others	(D	escribe)		Attache		here and H	low)
	The quali	INFORM weld pro fied in a	ATION C cedure u post wel	NLY: sed on th d heat tre	(No.) is item has	s also beei	(No.)	Others	(D	escribe)		Attacho		here and F	low)
	The quali	INFORM weld pro fied in a	ATION C cedure u post wel	NLY: sed on th d heat tre	(No.) is item has	s also beei	(No.)	Others	(D			Attache		here and H	low)
	The quali	INFORM weld pro fied in a	ATION C cedure u post wel	NLY: sed on th d heat tre	(No.) is item has	s also beei	(No.)	Others	(D			Attache		here and h	llow)
	The quali	INFORM weld pro fied in a	ATION C cedure u post wel	NLY: sed on th d heat tre	(No.) is item has	s also beei	(No.)	Others	(D			Attache		here and h	llow)
	The quali	INFORM weld pro fied in a	ATION C cedure u post wel	NLY: sed on th d heat tre	(No.) is item has	s also beei	(No.)	Others	(D			Attache		here and H	dow)
	The quali	INFORM weld pro fied in a	ATION C cedure u post wel	NLY: sed on th d heat tre	(No.) is item has eated cond aship only.	s also beer	(No.)					Attache		here and h	low)
	The quali	INFORM weld pro fied in a	ATION C cedure u post wel	NLY: sed on th d heat tre	(No.) is item has eated cond aship only.	s also beer	(No.)	Others _				Attache		here and h	low)
Rem	The quali Certi 2.088	INFORM weld pro fied in a fied to m min. we stateme	ATION C cedure u post wel laterial & all	sed on the dheat tree workman	(No.) is item has eated cond aship only. CER eport are condensity	s also been ition.	(No.)	P/FIELD CO)MPLIAN	CE			(W		
Rem	The quali Certi 2.088	INFORM weld pro fied in a fied to m min. we stateme the Code	ATION C cedure u post wel laterial & all nts made for Press	e in this re	(No.) is item has eated cond nship only. CER eport are cels, Section	also been ition.	(No.) TE OF SHO If that all detaision 1.	P/FIELD CO	PMPLIAN constructio	CE			pressure v		
Rem	The quali Certi 2.088	INFORM weld pro fied in a fied to m min. we stateme the Code	ATION C cedure u post wel laterial & all nts made for Press	e in this re	(No.) is item has eated cond aship only. CER eport are condensity	also been ition.	(No.)	P/FIELD CO)MPLIAN	CE			(W		
e ce	The quali Certi 2.088	INFORM weld pro fied in a fied to m min. we stateme ME Code horizatio	ATION C cedure u post wel laterial & all nts made for Press	e in this re	(No.) is item has eated cond nship only. CER eport are cels, Section 11,876	RTIFICA orrect and VIII, Div	(No.) TE OF SHO If that all detaision 1. Apires	P/FIELD CO	OMPLIAN construction	CE n, and work			pressure v		
Rem	The quali Certi 2.088 rtify that the m to the ASN ifficate of Aut	INFORM weld pro fied in a fied to m min. we stateme ME Code horizatio	ATION C cedure u post wel laterial & all nts made for Press n No	e in this re	(No.) is item has eated cond nship only. CER eport are cels, Section 11,876	also been ition. ETIFICA orrect and VIII, Div Exarge Pipe	(No.) TE OF SHO If that all detaision 1.	P/FIELD CO	PMPLIAN constructio	CE n, and work	manship o	of this	pressure v		
e ce	The quali Certi 2.088 rtify that the m to the ASN ifficate of Aut	INFORM weld pro fied in a fied to m min. we stateme ME Code horizatio	ATION C cedure u post wel laterial & all nts made for Press n No	e in this re	(No.) is item has eated cond nship only. CER eport are cels, Section 11,876 LaB	TTIFICA orrect and VIII, Div Exarge Pipe (Manu	(No.) TE OF SHO If that all detaision 1. (xpires	P/FIELD CO	DMPLIAN constructio July 19 Signed	CE n, and work	manship o	of this	pressure v		
Rem	The quali Certi 2.088 rtify that the m to the ASN ifficate of Aut	INFORM weld pro fied in a fied to m min. we stateme ME Code horizatio	ATION C cedure u post wel laterial & all nts made for Press n No	e in this re	(No.) is item has eated cond nship only. CER eport are cels, Section 11,876 LaB	TTIFICA orrect and VIII, Div Exarge Pipe (Manu	(No.) TE OF SHO If that all detaision 1. (xpires	P/FIELD CO	DMPLIAN constructio July 19 Signed	CE n, and work	manship o	of this	pressure v		
Rem 'e ce onfor Cert ate	rtify that the m to the ASN ifficate of Aut	INFORM weld pro fied in a fied to m min. w. stateme 4E Code horizatio	ATION C cedure u post wel laterial & all nts made for Press n No. Name	sed on the dheat tree workman	CER eport are cels, Section 11,876 LaBa	Stalso been ition. STIFICA orrect and VIII, Div Exarge Pipe (Manus RTIFICA)	(No.) TE OF SHO If that all deta ision 1. cpires & Steel Computations Steel Computations TE OF SHO Board of Boile	P/FIELD CO	DMPLIAN constructio July 19 Signed	CE n, and work	manship o	of this p	pressure v 2001 Sentative)		
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/e ceonfor Cert	rtify that the m to the ASN ifficate of Aut 11-10- undersigned, I haployed by re vessel part acturer has coolover makes	INFORM weld pro fied in a fied to m fied to m fied to m stateme tE Code horizatio gen holding a described horizatio gen holding a	nts made for Press n No Name valid com	e in this resure Vesser ressed or	CER eport are cels, Section 11,876 LaB CER essued by The viright Mutuarer's Data R el part in ac- implied, co-	also been ition. CTIFICA orrect and VIII, Div Exarge Pipe (Manual Manual Manual Insurance deport on coordance encerning the coordance encerning th	TE OF SHO It that all deta ision 1. cpires & Steel Comp ufacturer) TE OF SHO Board of Boile the Company 11-10 with ASME Cool	P/FIELD CO ils of material, any P/FIELD IN er and Pressure	DMPLIAN construction July 19 Signed Vessel Inspection July 19 Signed July 19 J	CE n, and work CO CO CO CO CO CO CO CO CO C	manship of the State or tham, MA this certific	of this province	pressure v 2001 Sentative) ce of have is nowledge and the remarks and t	essel part OK Inspected to the delief, to spector on the spector of the spector	he
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