_				RM U-1 MANU Required by the													
1. N	Manufactured an	d certified by	Alfa Lava	ıl Inc., 5400 lı	nternationa	l Trade Di	rive, Rich	mond, Virgi	nia,	23231 urer)						<b>=</b>	
2. N	Manufactured for	N/A				•		ss of Purchas								_	
3. L	ocation of instal	lation Corn	Products	Internationa	l, Inc, 1021	Industria	Dr, Stoc	kton, CA, 9	5206								
4. Type Vertical Plate Heat Exchanger 30113-93634																	
	(Horiz., vert., or sphere) (Ta				Tank, separa	ank, separator, jkt. vessel, heat exh., etc.)							's serial No.)				
	N/A (CRN)			30113-93634.0 (Drawing No.)							<b>32121</b> 'l. Bd.	No.)					
					010/ A11							0	<u> </u>	I/A e per UG-1	(55/4)	_	
6. S	Items 6-11 incl					• •				ers, or	chaml			-			
Course(s) Material						Thickness Long. Joint (Ca							3, & C)	Heat Treatment			
No.	Diameter	Length	Spec./0	Grade or Type	Nom.	Corr.	Type F	ull, Spot, None N/A	II, Spot, None Eff. Typ		Full, Spot, None		Eff.	Temp. Time			
	N/A	N/A		N/A	N/A	N/A			N/A	IWA	147.	<u>^                                    </u>	IVA	10//	14//-	`	
7.	Heads: (a)	Mat'l Snec. N		<mark>-516-70</mark> r Type) (H.T	Time & Tem	<u>l.a</u>		(b)(Ma	'l Spe	ec. No.		A-516- e or Typ		Time & To	emp.)	—	
	Location (Top,	Thick		Rad		Elliptical		x Hemispherica			Side to Pressure			Category A			
7.5	Bottom, Ends)	Min.	Corr.	Crown	Knuckle	Ratio	Angle N/A	Radius N/A	<del>-</del>	ameter 3" X 35"	<u> </u>	Concave	Type N/A	Full, Spot,			
(a) (b)	Fixed Movable	3.35" 2.56"	0"	N/A N/A	N/A N/A	N/A N/A	N/A	N/A N/A	-	" X 35"			N/A			N/A N/A	
	emovable, bolts	L	be other fa	stening)	<u></u>	<u> </u>		SA193-B7 (10	1.54	" (M39	actual)			<u>*                                      </u>			
•	,			·		<u> </u>	(N	latil, Spec. N	<u>,                                      </u>							_	
8. T	ype of jacket			N/A			Jacke	t closure				N/	Α				
If	bar, give dimen	sions				N/	A			(De	scribe	as ogee	& weld,	bar, etc.) ted, describe	or ske	etch.	
	ALA/D	_		at max, ter	nn 44			Min	. desi	ign me	tal tem	p.	-20 °F	at	44 psi		
J. IVI	(inte	<u>psi</u> mal)	N/A (externa	)	(inter	nal)	(extern	al)		_			-20 F	_ " —	<del>11</del> pai		
10. I	mpact test	•	NO (Imp	act Exemption (Indicate yes c	UCS-66(a),	(b), UHA-	51, UNF-6	5, as applicate tested)	ble)			at	test temp	perature of	N/	<u> </u>	
11, H	lydro., pneu., or co	mb, test press		O at 57 psi	_ Proof te		``	•		N	/A						
	Items 12 and 13													****			
12. Tubesheet: N/A Stationary (Mat'l Spec. No.)					Dia., (su	N/A biect to pres	ss.)	N/A Nom. thk.			N/A Corr. Allow.			Attachment (welded or bolted)			
N/A								N/A			N/A			N/A			
		Floating (Mat'l Spec. No.)				Dia.		Nom. thk.		Corr. Allow.			Attachment				
13.	Mat'l Spec. No., Grade or Type					N/A O. D.			N/A (Nom. thk.)		N/A Number			N/A Type (Straight or U)			
	Items 14-18 incl			er chambers o			nannels of		jers.								
14.3	(-)						erall length: N/A ickness Long. Joint (Cat.			A) Circum. Joint (Cat. A, I			, & C) Heat Treatme		eatment		
No.	Diameter	Length		Grade or Type	Nom.	Corr.	Type F	ull, Spot, None	Eff.	Туре	Full, Spo	ot, None	Eff.	. Temp.		e	
	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/	A	N/A	N/A	N//	<u> </u>	
15	Heads: (a)			N/A				(b)				N/A					
13.		Mat'l Spec. N	o., Grade d	Time & Tem	ıp.)			t'l Spec. No., Grade o			e or Typ	Type) (H.T Time & Temp.)					
	Location (Top, Bottom, Ends)	Thick		Rac		Elliptical Ratio	Conical Apo Angle	x Hemispheric Radius		±		Pressure Concave	Туре	Category / Full, Spot		Eff.	
(a)		Min. N/A	Corr.	Crown N/A	Knuckle N/A	N/A	N/A	N/A	+	N/A	COLLAGY	CONTORVE	N/A	N/A		N/A	
	removable, bolts	<u> </u>		<u>.                                    </u>		1			N/A			1	·			•	
., ,	C. Horapio, polic	. 2000 (0000)	50.01 10				(N	fat'l, Spec. N		rade, S	Size, N	0.)					

		FORM U-1 (BACK)				NB Number 32121						
16. MAWP _	N/A (internal)	N/A (external	at max. ten	np. N/A		N/A (external)	Min.	design metal tem	p <b>N</b>	1/A	at	N/A
	(internal)	(externa	'')	(mico)	,	(Omorrier)			-4.4		-hf	
17. Impact tes	st		(Indicate ves	or no and the	I/A component/s	) impact te	ested		at 10	est tempen	ature or	N/A
18. Hvdro p	neu or co	omb. test press	•	N/A		of test	,		N/A			
-		and safety valve						,				
Purpose (Inlet,	Outlet	Diameter of		Mate	rial	Nozzle T	hickness	Reinforcement	How A	Attached	Locatio	n (Insp. Oper
Drain, etc		o. Size	Flange Type	Nozzle	Flange	Nom.	Corr.	Material	Nozzle	Flange	Locatio	TI (IIISP. OPCI
Inlet		1 24"	STUDS	SA193-B7	÷	1 1/4" 3/4"				<u> </u>		
Outlet		2 6" 1 10"	STUDS	SA193-B7 SA193-B7		7/8"				<del></del>	╅─	
Inlet Outlet	<del></del>	1 10"	STUDS	SA193-B7		7/8"					1	<del></del>
N/A 22. Remarks:	er's Partial Da	116) 52-24	(List the na	ame of part, ite	m number, m	nfg's. name	and iden	e)  e following items of the following items of the tifying number)  between Hearrosive Serv	ds = 34	.7508";	ere and	10W).
conform to	that the sta the ASME 6/15/2012	atements made Code for Pres	in this report a sure Vessels, S	re correct and Section VIII, D	TE OF SHO I that all deta ivision 1. U ( Laval Inc.	ils of desi	an, mate	rial, construction rization No2	, and work 5017 Ex	manship o	of this v	essel 2013
Date	0,10,2012	Name	··· <del>··</del> ··		facturer)		·	Cignod		(Représer	itative)	
and employed June Section VIII, I Manufacturer arising from c	d by <u>OneBe</u> 7, 2012 Division 1. B 's Data Repo	acon America Insu- , and state that y signing this certi ort. Furthermore, r with this inspectio	urance Co., of Lyni, to the best of my ficate neither the Ineither the Inspecton.	National Board of n, MA knowledge and t nspector nor his or nor his employ	belief, the Manu employer make yer shall be liab	essure Vesse have ins ufacturer has as any warra le in any ma Commission	el Inspector spected the s constructe nty, expres inner for an	s and/or the State of pressure vessel de de this pressure ves sed or implied, concy personal injury or 1 Nat'l Board incl. end	scribed in the sel in accord cerning the p property dar	is Manufacti lance with A iressure ves mage or a lo	SME Cod sel descri ss of any	le, bed in this kind
We certify requiremen	that the stants of ASM	atements made E Code, Section	in this report a	TIFICATE OF tre correct and 1. U Certificat	that the field	d assemb	ly constru	ANCE uction of all parts	of this ve	ssel confo cpires	rms with	n the
Date		Name		(Assem	nhler)			Signed		(Represe	ntative)	
				(499611	10101)					,sp.000		
and employe	ed by		on issued by The I		f Boiler and Pre	essure Vess of	el Inspecto	rs and/or the State of				
has construc hydrostatic to vessel descr	cted and asso est of ribed in this N	, not implication, not	included in the center vessel in according to the center of the center o	tificate of shop in dance with the A certificate neither more, neither the ction.	spection, have SME Code, Se the Inspector no Inspector nor I	been inspection VIII, Di or his employe his employe	cted by me ivision 1. T byer makes r shall be li	parts referred to as and to the best of n he described vesse any warranty, expr able in any manner	ny knowledg I was inspec essed or imp	e and belief, ited and subj blied, concer	jected to a ning the p	a pressure
Date _		Sign	ed(Aut	horized Inspe	ctor)	Commission	ns	Nat'l Board incl. end	lorsements.	State, Provin	nce and N	lo.)
1560201		exe: v6.3.38	(Aut	a mape			'		,	-12.0		U1-12
,000201												01-17

U1-12