9945	As R	equired by the	Provisions o	T (III Adding			According to the same of the s			
99629 Manufactured and be	n	-Lamt Mitch	ne11 Co.	Inc. Dou	glas Bro	s. Div. 1	039 River	side St.	13	
Manufactured and ce	rtified by Ko	obert Filter	(Nom	se and address of ma	nufacturer)	P	ortland,	ME OAIC		
	Loffmann.	_TaRoche	Inc., r.	U. DUA SS	,	•				
Menufactured for	HOLLMaint	Дамоон	(NE	me and address of p	ouchaseri	nolvidere	N.J. 0	7823		
	. Hoffm	ann-LaRoch	e, Inc.,	ZJJ ROCK	ect)					
Location of Installat	1011	DB-88-124		(Manie and page	87E	0014 Rev.	59.	60	1988 (Year bailt)	
Type Vert.		DB-88-125	- wist No.1	(CR)	0110	(Drawing)	(Nat	L Ba. No.1	100 A 1000001	
(Hone or	vert , tank)	(Selfe.	I ISSUE VOS		rial enecificati	ons of the ASM	E Boller and Pr	essure Vessel C	ode. The design,	
The chemical and p	hysical proper	rties of all parts m	eet the requir	ements of flate	1	1986	Year			
construction, and w	rorkmanship (conform to ASME	Rules, Section	equirements of material specifications of the ASME Boller and Pressure Vessel Code. The design, ection VIII, Division 1 1986						
80 0 12480 007				Special sarrice per UG 120(d)						
12/31/87	(date)		Code Case No.				Ģ.			
page 1.5		ı vaesals iack	ets of jacketed	vessels, or sheet	s of heat excha	ngers 2'5 1	/2"	6'1	1/2 ¹¹	
s 6-11 incl. to be com	pleted for singl)-304L	le Wall vessels, jour	.250	None	full —	Dam, ID.		(Len	th (Orein)(It & is.1	
5			None Nom Int. (in) None				65		UV Time (F)	
Sng1	. with b	acking	None				EII. (%)		H.T. Temp. (F)	
Seams:	Long	g (Dbl., Smgl)	Db1.			Nor			No. of Courses	
-				(Db1, Sngl)		R.T. (Spot,	Partial, or Full)			
	SA-24	0-304L			(b) Matl.		(Spec N	nec No , Grade)		
Heads: (a) Metl		Spec No	o, Grade)		—т		Hemispherical	Flat	Side to Pressure	
Location (Yop.	Minimum	Corresion	Crown	Knuckle Padius	Elliptical Ratio	Conical Apex Angle	Radius	Drameter	(Convex or Concave)	
Bottom, Ends)	Thickness	Allowance	Radius		2;1				Concave	
Bottom .	1628	None			_4.1					
b)										
if removable, bo	its used (descr	ribe other fastenin	igs)			(Mail Spec No. 0	1 . 3116. 1101			
D. Jacket Closure 1. MAWP 140 Hydro., pneu., c	or comb. tes p	psi at max	teinp.	f bar, give dimer	°F. M psi.	in, temp. (when	less than -20°		O huno	
ems 12 and 13 to be	completed for t	ube sections	Nom This			(in) Corr Allow (in)			Attach (Welded Bolted)	
2. Tubesheets:	Stationary Matt (Spec No. Gi)	Dram (in) (Subject to pressure) Nom This						Attach	
			Diam	(m)	Nom Tirk I	(in)	Con Allow (in).	Miles	
	Floating Matt (S	pec No. Gr 1	Diant		3 3 824 ===		Number		Type (Straight or "U")	
3. Tubes:	N/A.	(Spec No. Gr)		00 (m)	Nor	n This (in or Gauge) Montoer			
	Hely	ionas ar	lingholad vacce	els or channels of	heat exchange	's 2'3 1	148		6'1 1/2"	
tems 14-17 incl. to b	e completed for 240–304L	r inner chambers of	.625	Nc	ne	Z'3 1	10. (fi & in)		Length (Orerell)(h & in)	
14. Shell:	Mail ISpec No.	. Gradel	Nora, Thk. (in	W	Allow. (IA)		70			
	Dbl.			None	A T (Spot or Full)		E11/k)		HT Temp. [F]	
15. Seams:		Long (Obl., Sngl)	Db1			No	ne		No of Courses	
				nth (Obl., Sngl I		RT.	Spal, Partial or Full)			
	tan/ SA_2	40-304L		N 2000	_(b) Matl		(Spec No.	Grade)		
16. Heads: (a) Ma	tl	(Spec N	o , Grada)				Hemispherical		Side to Pressure	
	Minimum	Corrosion	Crown	Knuckle Radius	Ethptical Ratio	Conical Apex Angle	Radius	Diameter	(Convex or Conca	
Location (Top. Botton, Ends)	Thickness		Radius		2:1	+			Convex	
(a) Bottom	.585	None								
(b)							Min N-1			
If removable,	bolts used (d	See Remark	enings)			(Mail, Spec No.		.0	Service 20 200	
		Jee Remara		360		Min. temp. (wh	en less than -2	0 FT		
17, MAWP	mos.	220	nax. temp	ernally ar	plied	_ psi.		45 E 471h St	, New York, N.Y. J	
Market non	or comb. to	st press LLU	The Cases		blained to	om the Order C	ept., ASME, 3	49 6, 47(11 36.	THE PART OF THE PROPERTY OF THE	

This form (E00108) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017 (12/82)

Form U-1 (Back)

18. Nozzles, Inspection and Safety Velve Openings:

Purposs (Index Outlet, Drain, etc.)			Туре	Matil.	Nom. Thk.	Reinforcement Mati.	How Attached	Location
Inlet			Pipe	SA-312-304L	Sch.80	SA-240-304L	Welded	Shell
Outlet	В	10"	31	0	Sch.40	II	11	11
Sightglas	s C	7 1/2"	Pad	SA-240-304L		11	11	11
Drain	D	2"	11	н		None	11	11
Steam Inl		2"	Pipe	SA-312-304L	Sch.40	None	11	Jacket
Cond Outle		1"	11	13	11	None	Ħ	11
Steam Inle		2"	11	11	11	None	11	- 11
Cond Outle	t H	1"	11	11	Sch.80	None	"	11
	- 1							+

-mace		0	ripe	SA-312-304L	Sch. 80	SA-240-304L	Welded	Shell		
Outlet	В	10"	11	- 0	Sch.40	11	11	11 ,		
Sightglas		7 1/2"	Pad	SA-240-304L	440	11	11	11		
Drain	D	2"	11	11		None	11	11		
Steam Inl		2"	Pipe	SA-312-304L	Sch.40	None	11	Jacket		
Cond Outle		1"	11	B	11	None	11	11		
Steam Inle		2"	13	ii ii	11	None	11	11		
Cond Outle	t H	1"	11	11	Sch.80	None	11	11		
					1			 		
					1			-		
					-			+		
19. Supports:	(Yes	or no) (No					Son West of Brown - De Stone			
20. Remarks: M	lanufactui report:	rer's Partiel C	Pata Reports			missioned Inspectors ha	ve been furnished	d for the following		
The day	1	1		(Name of part	, nemovodes, mly'i n	ine and identifying stamp)	N. N. 1020			
ine inn	er cha	imber of	the jac	keted vessel i	s designe	d in accordance	with the			
require	ment d	of UG-28	, howeve	r the intended	internal	pressure is at	mospheric	at		
amolent	temp	vesse.	l's test	ed in the vert	ical posi	tion & safety v	alves loca	ated		
elsewhe	re in	system.								
				CERTIFICATE OF SI	100 001101 141	100				
We certify that th	he statem	ents made in	this report							
						material, construction,				
"U" Certificate o	f Authori	ration No.	16779	VIII, Division 1.	6-29	signed Bjarme	,			
Dava H/1	Rathorn RA	ation No.	Robert	Mitchell Co	Tno	19.50		1-1		
Date		Co, nami	KOOCIC	(Manufacturer) DOS	iglas Bros	Signed of amu	(Representative)	nutte		
	. Dol	ort Mit		CERTIFICATE OF S	HOP INSPECTI	ON	, , , , , , , , , , , , , , , , , , ,			
Vassel constructed by Robert Mitchell Co., Inc. CERTIFICATE OF SHOP INSPECTION On the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Maine Maine										
Maine Maine	d, holdin	o valid con	mission issue	ed by the National Boar loyed by <u>Lumbermet</u>	d of Boiler and ns Mutual	Pressure Vessel Inspecto Casualty Co. I	ors and/or the St	ate or Province of , IL 60049		
	30		, 19_ <u>8</u> 6	and state that, to	the best of my l	ted the pressure vessel do anowledge and belief, the	e Manufacturer h	as constructed this		
pressure vessel in	accordan	e with ASME	Code, Section	on VIII, Division 1. By si	gning this certif	icate neither the inspect	or not his employ	er mak as any was		
ranty, expressed o	or implied	concerning	the procesure	unesal desertions to the B						
ployer shall be, list	ole in any	manner for a	ny personal Ir	litty Ot Byonarty damage	and a loss of an	stinderick for mermor	e, neither the ins	pector nor his em-		
ployer 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 41 88 Signed Commissions ME. 553, N.D. 9655 [Nati bond, Store, Produce and No.]										
				(Authorized Inspector)	Comi	missions III-, Oac	Costd, State, Prevince and	J No.1		
Wa cartifu that th	n field			TIFICATE OF FIELD A						
and Bressers Mark	e nem as	sembly const	ruction of all	parts of this vessel conf	orms with the r	equirements of Section \	/III, Division 1 o	f the ASME Boiler		
and Pressure Vesse										
"U" Certificate of	Authoriz	ation No		expires		, 19	 .			
Date		Co. name		der that certified and constructed lield						
			CED	TIEICATE OF FIELD A	CCCARDI V INC	POTION	(By Representative)			
l, the undersigned	l, holding	a valid com	mission issue	d by the National Board	of Boiler and	PECTION Pressure Vessel Inspecto	rs and/or the St	ate or Province of		
				and emplo	yed by			ne or riornice of		
			_of		hava c	ompared the statements	In this Manufact			
with the described	pressure	vessel and sta	e that parts r	eferred to as data items_						
ertificate of shop	Inspectio	n, have been	inspected by	me and that to the best	of my knowled	ge and belief, the Manuf	, n	ot included in the		
oled this pressure	vessel in a	eccordance w	ith ASME Co	de Section VIII Distan	n 1 The Jee	ge and belief, the Manuf bed vessel was inspected	acturer has const	ructed and assem-		
)f	osi. By sia	ning this certi	ficate neither	the Interestor per his co	olever	nen sessel mas insbacted	and subjected to	a hydrostatic test		
essel described in	this Man	ufacturar's D	ata Banara F	The impactor not his ev	ipioyer makes a	ny warranty, expressed (or implied, conce	rning the pressure		
niury or property	damess -	r a lass -4 :	ala neport, F	urmermore, neither the	Inspector nor	his employer shall be lia	ole in any manne	r for any personal		
)ate	annage o	a 1055 OT any	KING arising	from or connected with	this Inspection.					
Date		Signed		(Authorized Impresor)	Comn	nissions				
						I Nat T Board (incl. endossemental, State,	Prov. and No		