SHE JOB NO.

FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS

as required by the provisions of the ASME Code rules, Section VIII, Division 1

ITEM NO.

89-022

5116-7305-2

1	Manufac	ctured and	certified b	y Southern H	EAT EXCHAN	GER CORPO			TUSCALOGSA, AL	_ABANA		
				duport d			(name an	d address of man				
						,	(name and addir	ess or parchaser,	•			
3.	Location	of installa	ation	.1. duff	nt de l	Vemour	يد ع رين nam)	e and address)	Elly mont	TK.		
4.	Туре:Ь	1.Exct	tank)	eg-ozz	0.}	(CRN)	<u>5P</u>	-2084-1 (drawing no.)	512 (Nat'l. Bd.	الم K	(year built)	
5.	The che	mical and	physical pr	roperties of all	parts mee	the requir	ements of m	naterial specif	fications of the A	SME BOILE	R AND PRESSURE	
	VESSEL	. CODE. Th	e design, c	construction a	nd workma	nship confo	orm to ASME	E Code, Section	on VIII, Division 1		(year)	
		A87		(Code	Case no.)			(SDE	ecial service per UG-12	20(d))		
	6 11 <i>i</i>	(addenda (Da		,		els jackets	s of iacketed	• •	shells of heat ex			
	_								2/126-4	وا	11 276 W	
6.	6. Shell: 5A-516-70 (mat'l. (spec. no grade))		-7 0 no grade))	.375 (nom. thickness (in.))			(corr. allow. (in.))		(dia. ID (ft. & in.))	(leng	(length (overall) (ft. & in.))	
		SUGL.E		SPOT	85%			SNEL.B	vit sem l	1)	(no. of courses)	
		(long. (dbl.	. sngl))	(RT (spot or full)) (eff. (⁶ %)) (HT temp.		(girth (dbl.	, , , , , , , , , , , , , , , , , , , ,	partial, or full))	(no. or courses)	
8.	Heads:	(a) >4 -	516-20	(mat'l (spec no. grade))			(D)		(mat'l. (spec. no., grade)))	
		ation (top. om, 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) B 0	TIOM	.3125"	.125*	(2) 38	0.D. FL	NGED ET	WED HEA	55		FIAT	
	(p)				<u> </u>	1						
	If remov	vable, bolts	s used (des	cribe other fas	stenings):	LINE.	+	(mat'l ,	spec. no., gr., size, no).)		
9.	Type of	jacket: NO	VE		Proof	test:						
10.	Jacket	closure:NO	VE	0	If b	ar, give din	nensions:				describe or sketch.	
11.	MAWP:	75/FV	at max. ter	mp. 350	. Min desigr	n metal tem	p.: <u> { </u>	at 15/PV	. Hydron ppeupo	rcomb. test	pressure (15 (psi)	
Iter	ns 12 ar	nd 13 to be	complete	d for tube sec	tions.						^	
	CASL			6 L 30. 125 happed no . gr.)) (dia (in) (subject to pressure))			1.81254				MEDED	
12. Tubesheets: (stationary mat'l (s		onary mat'l (sp	(nom. thic				kness (in))	(corr. allow. (in.)) (a		attachment (welded, boited))		
		,ttoa	ting mat'l (spi	ec no (III))	(dia (ir	. 1)	(nom. thic	kness (in.))	(corr. allow. (in	1.))	(attachment)	
12	Tubes:	Caslo	1-316L	ec no. gr //	10		16		281		PAGHT	
		(mati) (spec_no.gr))		(OD (in))		n thickness		(no.)		type (straight or U))	
Ite	ms 14·17	7 inclusive	to be com	pleted for inn	er chambei	s of jacket	led vessels	or channels o	of heat exchange	ers.		
14.	Shell:	SA-240	-3166		So"				2-1.50	3	_ 4.625 ogth (overall) (ft. & in.))	
		(mat'l' (s)	pec no.gr))		thickness (in)	0,	(corr. allow (i	n.)) 	(dia. ID (ft. & in.))	(lei	igin (overall) (ii. & iii.))	
15	Seams	:) NGL (long (dbl , sngl))	SPOT (RT (spot or t		(HT tem	np (°F)) (time	e) (girth (dt	oi., sngl.)) (RT (spo	t, partial, or full)	(no. of courses)	
16. Heads: (a) 5A -240-316 L (b) (mat'l. (spec. no., grade)) (mat'l. (spec. no., grade))												
	[cation (top.	Minimum	1	Crown	Knuckle	Elliptical	Conical	Hemispherical	Flat	Side to Pressure	
		ttom, ends)	Thickness		Radius	Radius	Ratio	Apex Angle	Radius	Diameter	(convex or concave)	
-	(a) (D (b)	A (BOSTICA	2181. 1	0			2:1				CONCAVE	
l	If remo	ovable, boll	ts used (de	scribe other fa	stenings):	SA-193	5-BJ (36		spec. no., gr., size, no.	0.)		
		10/		emp. 350			•	x/e	Hydro !, fsheld: 6	Uddinh tost	Dressure 115	

18. Nozzles, inspection and safety valve openings

Purpose (inlet, outlet, drain, etc.)	Number	Dia. or Size	Туре	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
d	1	6"-150	REWN	SA-106 B	.280*	INVERENT	WELVED	HELL
UT	2	2"- "	٦	ч	344 "	V	u	1 4
4	1	84- 4	q	54-317-361	. 148"	u	· ·	Bonne
UT	(16"-"	ų	SA-240-36	- · 150 "	SA-240-316L	υ	U
								-
								1
and the second s								<u> </u>

					 	
						
					1	
9. Supports: Skirt Lugs 4	Legs Of	ther	A (escribe)	ttached SHEL	L, WELDED (where and how)
20. Remarks: Manufacturers' Partial Data Re	eports properly identified	and signed	by Commissi	oned Inspectors	s have been furn	ished for the
following items of the report:						
•	,	f part, item nur	nber, mfr's name a	ind identifying stamp))	
"UG-20(f)" "UG-46(a)	<u>) " </u>					
	AND ADDRESS AND A SECOND SECON					
			_			
	CERTIFICATE OF					
We certify that the statements made in this	report are correct and th	at all detail	s of design, ma	aterial, construc	tion and workma	anship of this
ressel conform to the ASME Code for Pres	sure Vessels, Section VI	II. Division	1.			1 / a
'U'' Certificate of Authorization no. 7037	expires FEB.	28, 19	91		0	/
	HEAT EXCHANGER CORPORA	TION		Signed	James &	·NOOC
	(manufactur	rer)		D.H. NOLAND	(representar	ive)
	CERTIFICATE OF	SHOP INSI	PECTION			
Vessel constructed by SOUTHERN HEAT EXC	HANGER CORPORATION			a	JSCALOOSA, ALAB	<u>·</u> [
the undersigned, holding a valid commissi	on issued by The Nationa	al Board of	Boiler and Pres	ssure Vessel Ins	pectors and the	state or prov-
nce ofand employed	by COMMERCIAL UNION I	INSURANCE C	OMPANY			
	of Buslun, Mass. ha	ve inspecte	d the pressure	vessel describe	ed in this Manufa	acturers' Data
Report on 1-5 , 19 90 .	and state that, to the be	st of my kr	owledge and I	pelief, the manu	facturer has cor	structed this
oressure vessel in accordance with ASME (
By signing this certificate neither the inspec			ranty, express	ed or implied, co	oncerning the pr	essure vessel
described in the Manufacturers' Data Repor	t. Furthermore, neither t	he inspecto	r nor his empl	oyer shall be lial	ble in any manne	er for any per-
sonal injury or property damage or a loss of		or connecte	ed with this in:	spection.		
Date 1-3-90 Signed 1911	Durch	C	ommissions	NB 2446 N	ndoisements) state, p	roy and so)
	(Authorized Inspector)	u Bros	oks	(Natil. Bd. (incl. er	ndorsements) state, p	rov. and no.)
	CERTIFICATE OF FIELD					
We certify that the field assembly construc	tion of all parts of this v	essel confo	rms with the r	equirements of	Section VIII, Div	ision 1 of the
ASME BOILER AND PRESSURE VESSEL C						
"U" Certificate of Authorization no	expires	19				
				Signed	(roprosontat	ive)
(a	ssembler that certified and cons				(represental	
	CERTIFICATE OF FIELD					
I, the undersigned, holding a valid commiss	ion issued by the Nation	al Board of	Boiler and Pre	ssure Vessel Ins	spectors and the	state or prov-
ince of and employed	by					
	of		_have compare	ed the statemen	ts in this Manufa	acturers' Data
Report with the described pressure vessel a	nd state that parts referr	ed to as dat	a items		, not ir	ncluded in the
certificate of shop inspection, have been i	nspected by me and that	at to the be	st of my knov	vledge and belie	ef, the manufact	urer has con-
structed and assembled this pressure vess	el in accordance with AS	SME Code,	Section VIII, D	ivision 1. The de	escribed vessel v	vas inspected
and subjected to a hydrostatic test of						
By signing this certificate neither the inspe-	ctor nor his employer ma	akes any wa	rranty, express	ed or implied, c	oncerning the pr	essure vessel
described in the Manufacturers' Data Report	rt. Furthermore, neither t	the inspecto	or nor his empl	oyer shall be lia	ble in any manno	er for any per-
sonal injury or property damage or a loss of	of any kind arising from	or connect	ed with this in	spection.		
DateSigned			Commissions_		ndorsements) state, p	rov. and no.)
	(Authorized inspector)			(Hac i. Du. (IIICI. G		