## FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS

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

1	Manufa	ctured and	certified by	OHMSTEDE	, INC.	- LAPOR	TE PLAN	T 12415	LAPORTE RD	. LAPOR	TE, TX	77571
2.	Manufactured for M.W.KELLOGG / TENNECO OIL CO. P.O. BOX 1307 LAPORTE, TX 77572-1307											
3.	Locatio	n of installa	ation TEI	NNECO OIL	co. 1		BROADWA		E, TX 775	71	· · · · · · · · · · · · · · · · · · ·	
4	Type: HC	ORIZ.HT	EXCH.	28393 Imfris serial no	1	N/A	7473698	en andere in antisperior level day.	164 (Nai'i Bd	no)	1991 (year built)	
5.									ications of the 4 on VIII, Divisi 1		R AND PRES	SSURE
9		1989 /	<b>\</b> (e))	N <sub>(Code)</sub>	/A Case no )			(spe	N/A cial service per UG-12	20(d))		
iten	ns 6·11 i	inclusive to	be comple	eted for single	wall vess	els, jackets	ol jacketed	d vessels, or s	shells of heat ex	changers.		
6.	Shell:	SA516-	-70N	3	/4"		1/8"		31 - 311 (dia. ID (II & in ))	161	- 11 15	/16"
												.in.))
7.	Seams:	(long (db:	sngl))	(RT (spot or full))	(ell 1%	)) (HI temp	(°F)) (time)	(girth (dbl .	SUTT SPOT (RT(spot.	partial, or full))	(no. of cou	rses)
8.	Heads:	(a) SA	516-70N				(b)	N/A		c no , grade))		
	I		I	(mai'l (spec n	1				г		Olds to Dis	
		ation (top. tom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pre (convex or co	
	(a)	END	3/4"	1/8"			2:1				CONCAVI	E
L	(b)	N/A	Li	ribe other fast	oningel:	I	l 'Α		l			
	n remo	vable, colts	nsealaesc	ince other rasi	enings).		Δ	(mat'l . s	spec no gr. size, no	)		
9.	Type of	jacket: N	/A		Proof	lest:						
10.	Jacket	closure: N	/A		If b	ar, give dim	ensions:			_ If bolted,	describe or	sketch.
11.	MAWP:								. Hydro., XXXXX			
				for tube sect			( )	(psi)			,	φ-0-7
12.	Tubesh	eets:	SA350-L	F2 ocnogrnida	38 7,		4 1/	8 <sup>11</sup> kness (in ))	1/8"	)) (atta	BOLTED	i, bolledi)
		N	/ A						~			
			ng mat'l (spec	-0 14000 700000	idia ili			knass (in ))	(corr allow (in		(attachment	1)
13.	Tubes:	SA214 (mat1 (5	pec no grii		3/4" op (193)	) <b>.</b>	)83" (MW thickness (in	) or gauge))	439	1	U type (straight or	UI)
Itei	ns 14-17	'inclusive	lo be comp	ieted for inne	r chambei	s of jacket	ed vessels (	or channels o	l heat exchange	rs.		
14.	Shell: _	SA516-	-70 ec no gri)	1	/2"		1/8"		31 - 3" (dia ID (ff & in ))	(!er	1' - 11 ngth (overall) (ft.	8 in ))
15.	Seams:	DBI	BUTT bl. sngl ))	SPOT INT (spot or fu			N/A	DBL-BU	JTT SP I sagli) (RT (spot	OT L partial, or full)	(no of cou	urses)
16	Heads:	(a) S	A516-70				(b	N/A				
	,			(mat'l (spec i	no . građe))			·····	(mat'l (spe	ec no., grade))		
		ation (top. tom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pro (convex or c	
	(a)	END	1/2"	1/8"			2:1				CONCAV	E
L	(b)	uable ball-	Lucod (doc	ribo other for	tonings):	L(56)7/8'	L SA193-	B7 STUDS	WITH (2) S	L SA194-2H	NUTS FA	CH.
	ii remo	vadie, Dolls	useu (desi	oner ias	tenings).	(30).1.19.		(matil.	spec no. gr. size. n	0)	<u>v.p.</u> bn	~
17.	MAWP	: 278 (psi)	at max. ten	np. 650°.	Min desig	n metal tem	p.: 10°	at 278 (psi)	. Hydro., ኤአራሊአል	[2%2 <b>8) H26</b> . test	pressure	417. (psi)

## FORM U-1 (back)

Nozzles, inspection and     Purpose (intel.		T		I	Mom	Reinforcement	How	
outlet, drain, etc.)	Number	Dia or Size	Туре	Mat'l	Thickness	Materia:	Attached	0
INLET	2	14"300LB		SA350-LF2	1.375"	INTEGRAL	WELDED.	
OUTLET	2	20"300LB		SA350-LF2	1.5625"	INTEGRAL	MELDED	
INLET	1	10"300LB		SA106B	.5940"	INTEGRAL		
OUTLET	1	4"_300LB		SA350-LF2	875"	INTEGRAL	WELDED	nished for the NT UNDER THE NAME OF THE NA
VENT, DRAIN	1 EA	1"6000LB	CPLG	SA105		INTEGRAL	WELDED	SHELL.
			n					
	· · · · · · · · · · · · · · · · · · ·							
		1	l					
9. Supports: Skirt. NO. iyes or 0. Remarks: Manufacturer	s' Partial Data	Reports prope	rly identifi	en and signe	d by Commiss	sioned Inspectors	LDED TO S	hiện
following items of the re	eport: MI	NIMUM DES	LGN_MET	AL TEMPE	RATURE PEI	R UG20 and identifying stamp		6 (See
ROLLED AND WEL AUTHORIZATION CUSTOMER ITEM	# 17397 A	ND SERIAL	FACTURE	D BY OHM: 8393-1 A	STEDE, INC ND 28393-2	C LAKE CI	IARLES PL	ANT UNDEI
CUSTOMER TIEM	N QUETIT			s (198	. 100 M A 3			
		05071	EICATE O	F SHOP COM	ADI IANCE		WATER STREET,	
"e certify that the stateme	ole made in I					naterial, construc	tion and work	manahip of t
essel conform to the ASM							_	S 5720 (S \$1 51000 C
U" Certificate of Authoriz		18673 exp		UNE 27.1	9 92 .		0.100	
Date 9-30-91 N				- LAPOR		Signed	Tox Hela	
Jale	ame	Name of the	(manula)			/	/trepresen	[Alive)
		CERT	IFICATE C	F SHOP INS	PECTION			
essel constructed by	Oł	HMSTEDE, I	NC L	APORTE P	LANT	at_L	APORTE. T	X
the undersigned holding	a valid commi	ission issued b	y The Natio	onal Board of	Boiler and Pre	essure Vessel Ins	pectors and II	na stato or pr
nce of TEXAS	and employ	ed by	H	,S,B.I,	& I. CO.	8 2 8 2 7	565	
		of HARTFO	RD, CT	have inspect	ed the pressur	e vessel describe	d in this Man	ulacturors D
Report on 9-30		, and state th	at, to the	best of my k	nowledge and	belief, the manu	facturer has c	onstructed t
ressure vessel in accorda		ME Code, Section	on VIII, Div	usion 1.				
By signing this certificate i	neither the ins	pector nor his	employer r	nakes any wa	arranty, expres	sed or implied, co	oncoming the	pressura ves
described in the Manufacto	urers' Data Re	port Furthermo	ore, neithe	r the inspect	or nor his emp	loyer shall be fial	ble in any mar	nor for any t
sonal injury or property da	mage or a los	s of any kind	erising Ison	n or connect	led with this in	rspection		
Date 9-30-9/ Sign	ed Emi	(Auxiorized In			Commissions	N13926	3	37.55
		(Auxiorized In	spector)			(Nat'l Bit finct an	ulgrar monta) atale	the set of
					LY COMPLIAN			
We certify that the field as ASME BOILER AND PRES			arts of this	s vessel conf	orms with the	requirements of	Section VIII I	hvision I of
'U" Certificate of Authoria			oires	. 1	9			
DateNa				onstructed field	assembly)	Signed	(rébiasa	e e e e e
								10-20-
l, the undersigned, holding	a valid comm				LY INSPECTION  Boiler and Pr		spectors and t	he state of p
nce of	and employ	yed by		13V 1453 3 3 569				5 5 8
						red the statemen		
Report with the described	pressure vess	el and state tha	t parts refe	erred to as da	ita items		., . , no	i included in
certificate of shop inspec	tion, have bee	en inspected b	y me and	that to the b	est of my kno	wledge and beli	ol, the manul	acturer has
structed and assembled th				ASME Code,	Section VIII, I	Division 1. The de	SCRIDED VESS	n was inspe
and subjected to a hydros	static test of		psi.		2	OWNAVERTOWNSON	ALICE NO W	
By signing this certificate described in the Manufact	neither the ins	spector nor his	employer	makes any w	arranty, expres	sed or implied, c	oncorning the	กบอง (ยา 962 กบอง (ยา 962
described in the Manufact sonal injury or property d	urers Data He	ee of any kind	arising fro	m or cooper	led with this i	nspection	ivic in only ind	sures con High
sonal injury or property di DateSig								
Jare Sid	neo				Commissions			

(Authorized Inspector)

(Nat'l. Bd. (incl endorsements) state print and rest

## FORM U-ZA MANUFACTURERS. PARTIAL DATA REPORT (ALTERNATIVE FORM) 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 NBH 14

	-					3	201 Swisco	Rd.	
1,	Manufactured and certifie	d by Ohms	tede, Inc	C. e Lake	Charles	Plant:, S	ulphur, LA	70669	
2.	Manufactured for <u>Öhms</u>	tede, In	c. LaPo	rte Plan	€, 12415			te. TX	77572
3.	Location of Installation		Unknown		(nan	ne and address)			
	Zuga linknown	28393	- 1		28	393 Sh R-	0		1991
4,	Type: Unknown (norte or vert., tenk)	(mir's, serial	no. of part)	(CRN)		(drawing no.)	(Nat'). Bd	. no.)	(year buill)
5.	The chamical and physical VESSEL CODE. The const							1989	
	A 90		ea ea					ty	en)
	(addenda (date))	•	Case no.)			11 Marie (64 70 70 1	service per UG-120(	.5.55	
	(a) Drawing prepared by_				(b) Descrip	tion of part ins	pected Cyl	inder	<del></del>
7.	Postweld heat treatment:	temperature_	///!	F. 1 Unkno	rime	3'-3"	161 11	15/16"	2
8.	Shell: SA 516-701	)) (nom, thic)	(ness (in.))	(corr. allow.	PERSONAL PROPERTY.	(dia ID (ft. & in.))	(length (overal		(no. of courses)
۸	Seams: Dbl Butt	•	enot		85		Dbl Butt		spot
¥.	Seams: DDI BUCC (long.)		(RT)		(011. (%))		(ginh)		(RT)
10	Heads: (a)				(b	)		•	
	110000. (0/	(mat'i. (spe	ec. no. grade))				(mat'l. (spe	c. no. grade))	
	Location (top. Minima bottom, anda) Thickne			Knuckle Radius	Elliptical Ratio	Conical Aper Angle	Hemispherical Radius	Flat Dismater	Side to Pressure (convex or concave)
	(a)								
	(b)								
10000	if removable, bolts used (	ento edhoceb	r fastenings):						
						(mal'i. s	pec. no., gr., alze, no	).)	
11.	MAWPat max. te	mpN	din. design n	netal temp.:	at	Test	press.:	in the	(position)
	(120)	(7)			1.17	(1)	o, proof or comoral		
12.	Nozzles and inspection of	penings:							
L	Purpose (intel, outlet, drain, etc.)	Number	Ole. or Size	Тура	Material	Nominal Thickness	Reinforcement Material	How Allach	
							0.	A 77	4507
L		1				*	PO	7	TOUDART
13.	Supports: Skirt	Lugs	Legs_	Oı	her	Attaci	led ML	F1F9	TRECON
14.		data by			<del></del>		Inh-	70293	Ketara Hen
		10 throug				e	100-	101/21	7,112
	OSMITOT	In accor	dance wi	LII ULD	13101		Insp	1	
							Lacu	1///	7/23/91
							TUCIV	Cor	
					F SHOP CO				
	certify that the statemen						, construction,	and workma	inship of this vessel
	rt conform to the ASME C			Section VII			-	1	50 OA
"U	"Certificate of Authorizati		17,397		_ expires_		Ju	Para	19 49
Da	10Nar	meOhmst	tede. Inc	(manule	clurer)		Signed_	(10)	presentative)
	ASSAULT BERKESTERS NATURAL OF THE STREET		CEL	TIFICATE (	OF SHOP IN	SPECTION			
	he undersigned, holding a	valid commis	beuzei nolz	by The Natle	onal Board o	I Boller and Pr	essure Vessel I	nspectors a	nd the state or prov-
ind	Louisiana CT	and emplo	yed by	1.5.B.i.	7 L, CO	In this Manufa	otuzara' Data O	anort on	7-12 1991
of.	Hartford, CT d state that to the best of	have inspecte	ea the pressu	Jre vessel pe	turer has co	natructed this	cturers' Data R	opon or com	
en	d state that to the best of	マンマ マスというへんりん	a ann malia! I	ne manuiac	COLEL LIER CO	matructou tilla	Amir Or a higgs		
AS	NIP As de As alle a tilli As	dalan 4 Purch	oning this co	rdifficate and	that the los	nector nor his	employer make	S any warrar	ity, expressed or im-
	ME Code Section VIII. Div	Islan 1. By si	ening this ce	rtificate nei	ther the Ins	pector nor his	employer make	s any warrar	ity, expressed or im-
PI	SME Code Section VIII, Div	ision 1. By si	gning this ce described in	ortificate nei	ither the ins	a Report, Furti	employer make nermore, neithe	s any warrar or the Inspec	ity, expressed or im- tor nor his employer
eh	ME Code Section VIII. Div	ision 1. By si re vessel part for any perso	gning this ce described in	rtificate nei the Manufa property da	image oca k	pector nor his on the control of the	employer make nermore, neithe	s any warrar or the Inspec connected	ity, expressed or im- tor nor his employer

FORM 11-24 MANUEACTURERS BARTIAL DATA REDORT (ALTERNATIVE FORM)

		rt of a Pro	eeV eruse	sei Fabr	lcated by	y One Ma	nufacturer	for Another An VIII, Division 1	Manufactu	ror mua	•
1,	Manufactured and	d certified b	y Ohmste	de, Inc	., Lake	Charle:		3201 Swisco Sulphur, LA			•
2.	Manufactured for	<u>Ohmste</u>	ede. Inc.	LaPor	te Plan	t, 1241	5 LaPorte	Rd., LaPor	te, TX	77572	ě
3.	Location of Instal	lation	<u> </u>	nknown		(na	me and address)			· · · · · · · · · · · · · · · · · · ·	•
4.	Type: Unkno	Wn	28393 - (mfrs. serial no.	2 ol pari)	(CRN)		8393 R=0 (drewing no.)	(Nai'l. 8d.	no.)	1991 freer built)	•
5.	VESSEL CODE. T		tion, and wor	kmanship					1989	R AND PRESSURE	<u>:</u>
	A 90 (addenda (da	IAU	(Code Ca			<del></del>	(toeci)	al service per UG-1200			•
	(a) Drawing prepa	red by Of	umstede,					spected Cyl			-
7.	Postweld heat tre	eatment: teri 6 – 70	nperature		Unkno	rime	3'-3"	1'-11	n		•
8.	Shell: (nat'l. (spec.	no., grada))	(nom. thicknes		(corr. allow.		(dla ID (ft. & In.))	(length (overall		(no. of courses)	•
۵	Saama Db	1 Butt		spot		85				222	
7.	Seams:	(long.)		(AT)		(611, (%)	)	(girth)		(AD)	•
10	Heads: (a)					(1)	1)				
	110000. (0)		(mai'l. (spec. n	o. grade))			7	(mat'l, (spec	. no. grade))		•
	Location (top, bottom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckie Radius	Elliptical Ratio	Conical. Apax Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)	9
	(a)								2		
	(b)										
	MAWPat		ሆብ Min. nings:	design me	etal temp.:	at ሆን		t press.:_ ro, pneu., or comb.xp:	in the	(position)	
	Purposa (Inlet, outlet, drain	, etc.)	Number (	Ola. or Size	Тура	Material	Nominal Thickness	Reinforcement Material	How Attachs		
-											
12	Supports: Skirt_		Luge	Lene	01	har	Attacl	had			1
			ata by ot					100		·	- 77
Item #10 through #13 are non-applicable 74792								22 mule	Ma		
	F	ormed in	accorda	nce wit	h ucs	19(d)			2 00	7.7	- , /
										1 7/23	.hi
								·	(	v ·	7
				C. C			MPLIANCE	• Normanico Augusto • • • • • • • • • • • • • • • • • • •			
								I, construction, a	ind workmai	nship of this vesse	31
	t conform to the A "Certificate of Aut		4.00	397	ection, Am	AVOICES	*0	Jun	ρ 4	19 94	1
Da <sup>1</sup>	7-12-91	Name_				_ oxpires		Slaned (	Onice	hala?	
50	Wanted affects and other				(manufac	turer)			(teb)	resentative)	
Inc			10 10	CERT		F SHOP IN					
	he undersigned, he	na ;	and employed	by H.	S.B.I.	& I. CO	<u> </u>				-
	eof Louisia Hartford, C	na ;	and employed e inspected ti	by H.	S.B.I. e vessel pa	& I. CO	in this Manufa	acturers' Data Re	port on	1-12,1991	-
en	e of Louisia Hartford, C	na ; T hav best of my k	and employed e inspected ti mowlecige and	by H.  ne pressure  bellef, the	S.B.I. e vessel pa e manufact	& I. CO rt described turer has co	in this Manufa nstructed this	acturers' Data Re part of a pressur	port on		10

shall be liable in ary manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7-12, 19-91 Signed For 12 Manual Commissions 64.1148

(Nath Bid. (Incl. endorsements) state, prov. and no.)