FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1	,
1	/、
•	1

1. Manufactured ar	nd certified	by			Vinbco Tank						
2. Manufactured fo	or				Lyle 1989 H						
3. Location of insta	allation	-		Tate	e & Lyle 198	9 Haves Ave (Name ar	e, Fort Dodg nd address)	e. IA 50501	USA		
4. Type Ve	ertical		07210 (Mfr's serial No.)		(CRN)		7210 awing No.)	67 (Natl. Bo	0 d. No.)		2008 Year built)
5. The chemical and p CODE. The design	obvsical prope	erties of a	all parts meet	the requireme	nts of material	specifications	of the ASME B	OILER AND P	RESSURE VE 2004	SSEL	
	200 Addenda						Andrew Commencer	200	Year		
to	Code Cas			Case Nos.			Special Service per UG-120(d)				
6. Shell:	SA-240 3 Matl. (Spec. No.,	04 Grade)	- 0	,1875" lom. Thk. (in.)	Corr. Allow. (in.)		2'-6" Diam. I.D. (ft. & in.)	Length	34'-0" (overall) (ft	. & in.)
7. Seams: Long (W	Type 1 Velded, Dbl., Sngl.,	Lap, Butt)	None A.T. (Spot or Fu	70% Eff. (%)	H.T. Temp. (°F)	Time (hr)	Type Girth (Welded, Dbl.,	Sngl., Lap, Butt)	None A.T.(Spot or Full)	70% Eff. (%)	No. of Courses
8. Heads: (a) Matl.			SA-249 (Spec. No.	0 304 , Grade)		(b) Matl.		S	Spec. No., Grade)		
Location (Top,Bot Ends)	tom, Minir Thick		Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter		Pressure (Convex r Concave)
(a) Top	0.13	TOWN THE PARTY OF	0"	30" IR	2" IR	N/A	N/A	N/A	N/A	-	Concave
(b) Bottom	0.15		0"	30" IR	2" IR	N/A	N/A N/A	N/A	N/A		Concave
If removable, bolts use	ed (describe d	other fast	tenings)				(Mati. Spec. No.,	Gr., Size, No.)			
9. MAWP	80 (internal)			15 (external)	_ psi at ma	ax. temp.	32 (inte	O mal)		320 (external)	°F.
Min. design metal	temp.	-20	_ °Fat .		si. Hydro., p	neu., or com	b. test pres	sure _	Hydro. (D 112	psi.
10. Nozzles, inspe	ection and s	50 S	alve openir Diam.	1.00			Nom.	Reinforcement	How		Location
(Inlet, Outlet, Dr		No.	or Size		Ma		Thk.	Matl.	Attache		N/A
VAPOR QUILE			6" NPS				0.28"	N/A SA-240 304	UW-16.		N/A
RELIEF NOZZLI		2	4" NPS		SA-182		0.3"	N/A	UW-16.		N/A
thermowell coup pressure pad fla		2	Studding O		SA-24	CONTROL OF THE PARTY OF THE PAR	2"	N/A	UW-16.	1(e)	N/A
Additional Nozzles - See attached U-4 11. Supports: Skirt Yes (Yes or no) Lugs N/A (No.) Lugs N/A (No.) Lugs N/A (No.) Chescribe) Attached F&D Head #2 - Welded (Where and how) 12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following											
items of the report:	None.				(Name of part, item	number, Mfr.'s name	and identifying stam	p)			
		77774								0.000	
										-	
			CERT	IFICATE	OF SHOP	/FIELD C	OMPLIAN	ICE			
We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. If Certificate of Authorization No. 3593 expires January 25, 2011											
U Certificate	of Authoriza	ation No	o	3593		expires _		Janua	/ / /	0/1	
Date	2.12.06		Name	Wir	(Manufacturer)	<u> </u>	Signed	_n	(Represent	tative)	
			CER	TIFICATE	E OF SHO	P/FIELD I	NSPECTI	ON			
Vessel constructed by Winbco Tank Co at 1200 E. Main St. Ottumwa. IA 52501 USA											
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of lowa and employed by HSBCT have inspected the component described in this Manufacturer's Data Report on 2 + 12 - 2005, and state that, to the best of my knowledge and belief, the Manufacturer has											
of	lowa	and	employed b	у	and state	SBCT	et of my kno	have insp	ected the con	nponent	er has
this Manufac	turer's Data	Report o	on <u>272</u>	- With ASME	Code Section	n VIII Divis	ion 1 By sign	ing this certif	ficate neither	the Inst	pector nor his
constructed ti	nis pressure	vessel ii	n accordance	implied conc	orning the pre	cours vaccal	described in the	nis Manufacti	rer's Data Re	eport Fi	urthermore.
employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from											
neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage of a loss of any kind arising from or connected with this inspection.											
or connected	with this ins	spection	*	1	11. 10	,					
Date	2-12-08	S	Signed	allas	MLSC	Con	nmissions	134/1 INat'l F	A IA	15-88 nts), State, Pr	rov. and No.
				CAMILOTIA	- Angeroal						

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

4/2

. Manufactured and certified by:			Winbco Tank Co. 1200 E. Main St. Ottumwa, IA 52501 USA (Name and address of Manufacturer)							
2. Manufactured for:			Tate	Tate & Lyle 1989 Haves Ave Fort Dodge, IA 50501 USA						
. Location of installat	ion:					ort Dodge, IA 50				
1. Type: Vertical (Horiz, vert, or sphere)				(Tank, separe	07210 (Mir.'s serial No.)					
(CRN)		07210 (Drawing No.)		67 (Nat'i Bo		2008 (Year built)				
dditional Nozzles:	No.	Diameter or Size	Туре	Material	Nozzle Thickness	Reinforcement	How Attached	Location		
		Diameter of Oize	1,700	Tenationian		Material				
(Inlet, Outlet, Drain, etc)		4" NIDO	CL 1501.1	CA 212 TD204	0.237"	N/A	UW-16.1(e)	N/A		
(Inlet, Outlet, Drain, etc) LIQUID FEED (A)	.1_	4" NPS	CI. 150 LJ	SA-240 304	0.237"	N/A SA-240 304	UW-16.1(e) UW-16.1(h)			
(Inlet, Outlet, Drain, etc) LIQUID FEED (A) PACKING ACCESS (M1)	1-	19.25" ID	ÇI. 150 SQ	SA-240 304	0.237" 0.375" 0.28"	SA-240 304				
(Inlet, Outlet, Drain, etc) LIQUID FEED (A)	1 1 2			The second secon	0.375"		UW-16.1(h)	Cylinder #1 N/A N/A		
(Inlet, Outlet, Drain, etc) LIQUID FEED (A) PACKING ACCESS (M1) STEAM INLET (G)	1 1	19.25" ID 6" NPS Studding Outlet 3"	Cl. 150 SO Cl. 150 LJ	SA-240 304 SA-312 TP304	0.375" 0.28"	SA-240 304 SA-240 304	UW-16.1(h) UW-16.1(h)	Cylinder #1 N/A		

Certifi	cate of Authorization: Type:	UNo	3593 Expires _	January 25, 2011
Date	2.12.08 Name	Winbco Tank Co	Signed	(Representative)
Date	2-/2-08 Name	Ocla M & SC (Authorized Inspector)	Commission	(Nat'l Board Incl. Endorsement, State, Province and No.)