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

(Alternative Form For Single Chamber, Completely Shop-Fabricated Vessels Only)

As Required by the Provisions of the ASME Code Rules, Section VIII. Division 1

LARSEN & D'AMICO MFG. LTD. 9805 - 51 Avenue, Edmonton, Alberta T6E 4W8

ARGO SALES LTD., P.O. BOX 1160, NICKU, ALBERTA, T9E BA8

(Name and Address of Manufacturer)

(Name and Address of Purchaser).

Manufactured and certified by

Manufactured for

Type:	Verti	cal											
	I. Aller	Vert, Tank, etc	:)	C-9041 (Migr s ser	ral No)		3078.21 RN)	3	LD-33 (Drawii	100-A REV ng No)		Ba No)	1998 (Year Burt)
		ysical proper e design, con									BOILER AND 1 1995 to (Year)	PRESSURE 1997 Addenda (Da	
N/A Code Case	Numbers							N/A Special	Services per U	IG-120(d)	(con	vocaion (p.e.	
Shell:				1.0" Nom Thk inch	(25.4 (mm)	0)	1/8° Corr inch	Allow					36" (8534) ength Overall ch (mm)
Seams:		ed, Dbl R	T (Spot					°C	60 Time (hr.)	Girth (V	/elded_Dbl i		
Heads:	. ,						(b)						
	lom, Ends)		Allow	wance (mm)	Radi	us (mm)	Radıı ın	us (mm)	Fliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Drameter	Side to Pressure (Concave or Convex)
В				(3.2)	0.	(0.00)		(0.00)	21				CONCAVE
st Nozz ies , i	1440 psi inspection a	9928 F	(pa ve openin	gs:	·		•		ıte	2160 psi		14893 Kp	-28 88 °C a
		No				Туре		Mal1	1	-	Matil	Attached	Location
Remarks:	(Ye Manufacti MPACT TEST	s or No) mer's Partial I IS EXEMPT PI	(No.) Data Repo	orts proper	(A ty identif	VA No) fied and s	Other	N/A (Des	cribe) nissioned in:			(Where and I	,
Type: Weight:	CONTACT 9425 R	TOR TOWER							PROVIDED I	Hydr	otest Position		C CONTAL CO-A REV S
	- Control of the Cont				CE	RTIFICAT	TE OF S	HOP C	OMPLIANCE				
de for Pre	ssure Vesse	is, Section VII	I, Division	1. "U" Cerl	tificate of	Authoriz	ation No	14254	Expires Octo			of this vessel	conform to the ASME
1000	C3/48	Company	rame I			Manurac	aunng i	Lta s		Representative	9)		
National compone d state the ming this ta Report	Board of Boi ent described at, to the bes certificate no Furthermon	ilor and Pressi 5 in this Manul 5 of my knowle either the insp e, neither the	rre Vessel facture's D adge and t actor nor I	inspectors ata Report cellef, the A his employe	g Ltd. e end/or to on Manufacto er makes	t 9805-5 he State C 72 urer has d any war	Avenue Province Provi	ted this	nonton, Albe liberta and er 2 , 19 pressure vesi I or implied, d	mployed by sel in accordanceming to	Alberta Bollers lance with ASM the pressure ves	Salvity Associ E Code, Secti sel described	ciation have inspected ion VIII, Division 1. B) in this Manufacturers
1098.	10-2	3 Signed _	finarized ins	Long	j Stier	· ·	Co	mmissic	ns <u>Albert</u>	42R	ude Endersements	ellällöruppy-seemuuni välgöre- superp	
	Both	Mati (Specificate in Mati Specificate in Mati	Mati (Spec No , Grade) Seams: TYPE 1 Long, (Welded, Dbl Rongi , Lap, Bult) Heads: (a) Mati SA-516-70 N (Spec No Grade) Location (Top, Bottom, Ends) TOP 0.9375'(23.8' BOTTOM 0.9375'(23.8' BOTTOM 0.9375'(23.8' BOTTOM 0.9375'(23.8' BOTTOM 0.9375'(23.8' Nozzles, inspection and safety valuet, outlet, drain) No Supports: Skirt YES Lug (Yes or No) Remarks: Manufacturer's Partial I report: IMPACT TESTS EXEMPT PE AND UCS-66(c) ITEM #21 Type: CONTACTOR TOWER Weight: 9425 ibs. 4270 Capacity: 50.28 cu.ft. 1.42 To certify that the statements made in de for Pressure Vessels, Section VII as a Report. Furthermore, neither the inspection or neither the inspection.	Seams: TYPE 1 FULL Long, (Welded, Dbl. R.T. (Spot. Sngl., Lep, Bult) or Full) Heads: (a) Matt. SA-516-70 N (Spec. No. Grade) Location (Top. Thickness Allon Bottom, Ends) in (mm) in TOP 0.9375'(23.81) 1/8' BOTTOM 0.9375'(23.	Matl (Spec No , Grade) Nom Thk inch Seams: TYPE 1 FULL 100 Long, (Welded, Dbl RT (Spot of Fult) Heads: (a) Matl SA-516-70 N (Spec No Grade) Location (Top, Thickness Allowance Bottom, Ends) in (mm) in (mm) TOP 0.9375*(23.81) 1/8* (3.2) BOTTOM 0.9375*(23.81) 1/8* BOTTOM 0.9375*(23.81) 1/8	Mati (Spec No , Grade) Nom Thk inch (mm) Seams: TYPE 1 FULL 100 Long, (Welded, Dbi R T (Spot Eff (%) Sngl , Lap, Bult) or Full) Heads: (a) Mati SA-516-70 N (Spec No Grade)	Matl (Spec No , Grade) Nom Thk (mm) Seams: TYPE 1 FULL 100 1150 of Long, (Welded, Dbl. RT (Spot. Eff (%)) HT Term (Minimum) Heads: (a) Matl SA-516-70 N (Spec No Grade) Location (Top. Minimum Allowance Radius Radius Bottom, Ends) in (mm) in (m	Matl (Spec No , Grade) Nom Thk (mm) inch Seams: TYPE 1 FULL 100 1150 °F 621.1 Long, (Welded, Dbl. R T (Spol. Eff (%) H T Temp Sngl. Lep, Bult) or Full) Heeds: (a) Matl SA-516-70 N (Spec No Grade) Location (Top. Minimum Corroson Radius Radius International Intern	Matl (Spec No , Grade) Nom Thk (mm) Corr Allow Inch (mm) Seams: TYPE 1 FULL 100 1150 °F 621.1 °C Long, (Welded, Dbl RT (Spol Eff (%) HT Temp Sngl , Lap, Bult) or Full) Heeds: (a) Matl SA-516-70 N (Spec No Grade) Location (Top. Minimum Corrosson Radius Radius Radius Bottom, Ends) in (mm)	Metl (Spec No , Grade) Nom Thk (mm) Nom Thk (mm) Nom Thk (mm) Nom Cort Allow (Spec No Grade) (Mm) Nom	Mati (Spec No. Grade) Nom Thk Inch Inch Inch Inch Inch Inch Inch Inch	Mail (Spec No , Grade) Nom Tink Inch In	Medi (Spec No , Grade) Nom Ihk (mm) Noch (

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Manufactured and certified by

LARSEN & D'AMICO MFG. LTD. 9805 - 51 Avenue, Edmonton, Alberta T6E 4W8

(Name and Address of Manufacturer)

Manufactured for

ARGO SALES LTD., P.O. BOX 1160, NISKU, ALBERTA, T9E 8A8

(Name and Address of Purchaser)

3 Location of installation RESALE

Exh Etc)

(Name and Address)

Type:

Vertical

(Horz, Vert, or Sphere)

CONT. TOWER (Tank Sep Heat

C-9041 (Mfgrs Senal No.)

N3078.213 (CRIII)

LD-3300-A REV 1

(Drawing No.)

NIA

1998

(fratil Bd No.)

(Year fluit

Purpose	ftem	Diameter	T	88-41-1	Nominal	Reinforcement	How *	Location
(inlet, Outlet, Drain)	No.	or Size	Type	Material	Thk.	Material	Attached	
INLET	N1	3"	600# RFWN	SA-105	SCH XXH		WELDED	SHELL
		3"	PIPE	SA-106-B	SCH XXH			
		3"	ELbOW_	SA-234-WPB	SCH 80			
		7.5"	REPAD		3/8"	SA-516-70		
GAS OUTLET	N2	3"	600# RFWN	SA-105	SCH XXH		WELDED	TOP HEAD
	<u> </u>	3"	PIPE	SA-106-B	SCH XXH			
	<u> </u>	7.5	REPAD		3/8"	SA-516-70		
DRAIN	C1	1"	COUPLING	SA-105	6000#		WELDED	BTM HEAD
		1"	PIPE	SA-106-B	SCH XXH			
		1"	ELBOW	SA-234-WPB	SCH XXH			
WATER OUT	C2	1"	COUPLING	SA-105	6000#		WELDED	SHELL
COIL	C3 A-D	1"	COUPLING	SA-105	6000#		WELDED	SHELL
LG DIL	C4 A-B	3/4"	COUPLING	SA-105	6000#		WELDED	SHELL
INSPECTION	C5 A/B	2.375 ID	COUPLING	SA-105	6000#		WELDED	SHELL
TRAY DRAINS	C6 A-I	1"	COUPLING	SA-105	6000#		WELDED	SHELL
LG WATER	C7 A/B	3/4"	COUPLING	SA-105	6000#		WELDED	SHELL
LC WATER	C8	2"	COUPLING	SA-105	6000#		WELDED	SHELL
TI	C9	3/4	COUPLING	SA-105	6000#		V.'ELDED	SHELL
Pl	C10	1/2"	COUPLING	SA-105	6000#		WELDED	SHELL
GLYCOL OUT	C11	1"	COUPLING	SA-105	6000#		WELDED	SHELL
GLYCOL IN	C13	1"	COUPLING	SA-105	6000#		WELDED	SHELL
PSV	C14	2"	COUPLING	SA-105	6000#		WELDED	SHELL
OIL OUT	C15	° 1"	COUPLING	SA-105	6000#		WELDED	SHELL
LC OIL	C16	2"	COUPLING	SA-105	6000#		WELDED	SHELL
HLSD	C17	2"	COUPLING	SA-105	6000#		WELDED	SHELL
BREAK FLANGES	21	20°	600# RFWN	SA-105	SCH 80		WELDED	SHELL
		20"	600# Flex Gsk't	316 SS				
		1-5/8"ø	STUDS	SA-193-B7M				
		1-5/8°ø	NUTS	SA-194-2H				

Certificate of Authorization.

Type

14254 No.

OCTOBER 28

2001

LARSEN & D'AMICO MFG, LTD.

(Manufacturer)

(Authorizedonspectos

Signed

(Representative)

Commission

Alberta 126 (Natl Roard incl. Endorsement State Province and No.)

Expires