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

Manufactured and certified by		LARSEN & D'AMICO MFG. LTD. 9805 - 51 Avenue, Edmonton, Alberta T6E 4W8 (Name and Address of Manufacturer)					
2. Manufactured for:		ARGO SALES LTD., P.O. BOX 1160, NISKU, ALBERTA, T9E 8A8 (Name and Address of Purchaser)					
3. Location of installation:	RESALE (Name and Address)						
4. Type:VERTICAL SEPARATO (Horz, Vert, Tank, etc.)	(Mfgr	-11687 's serial No.)	R3524.21 (CRN)		N/A Nat'l. Bd. No.)	2003 (Year Built)	
5. The chemical and physical pr						RE	
VESSEL CODE. The design	construction, and work	manship conform to	N/A	(Year)	Addenda (Date)		
Code Case Numbers 6. Shell: SA-516-70N	1.0"	(25.40) 1/	Special Services pe 8" (3.2)	er UG-120(d) 24" O.D. (610)	96"	(2438)	
Matl. (Spec. No., Grade	Nom. Thk.	Co	orr. Allow.	Diam I.D. / O.D.	Lengt	th Overall	
	inch	(mm) in	ch (mm)	inch (mm)	inch	(n: m)	
7. Seams: TYPE 1 Long, (Welded, Dbl Sngl., Lap, Butt)	FULL 100 R.T. (Spot Eff. (% or Full)	1150 °F 62° 6) H.T. Temp.	1 °C 1.0 Time (hr.)	TYPE 1 Girth (Welded, Dbl., Sngl., Lap, Butt)	R.T. (S, Jt/Partial/F		
8. Heads: (a) Matl SA-516-70 (Spec. No. Grade)	N	(b) Matl SA-516-70 (Spec. No. Grade)	N			
Location (Top, Thicknet Bottom, Ends) in.	ss Allowance	Radius R	adius Elliptical	Conical Hemispherica		Side to Pressure	
(a) TOP 0.9375" (2		. (mm) in. 0" (0.00) 0"	(mm) Ratio (0.00) 2:1	Apex Angle Radius	Diameter	Concave or Convex) CONCAVE	
(b) BOTTOM 0.9375" (2		0" (0.00) 0"	(0.00) 2:1			CONÇAVE	
f removable, bolts used (describe	other fastenings) N/	(Matl., Spec. No	o., Gr., Size, No.)				
9. MAWP 1440 psi 99	8 Kpa at max. temp.	127 °F	52.85 °C	Min. design metal tem	p. -20 °F	-28.88 °C	
	18 Kpa	Hydro To	est pressure	2160 psi	14893 Kpa	1	
10. Nozzles, inspection and safet Purpose (inlet, outlet, drain) No.	Diam. or Size	Туре	Mat'l	Nom. Reinforcement Thk. Mat'l	How Attached	Location	
(mod saust aram)	T GI GIEG T		CHED U4 FORM	THIC MEET	Attached	Location	
(Yes or No)	ugs N/A Leg (No.)	(No.)	(Describe)	Attached	BTM HEAD/V (Where and How	()	
 Remarks: Manufacturer's Pa report: N/A 	tial Data Reports prope	rly identified and sig	ned by Commissio	ned Inspectors have been	furnished for the	following items of the	
(n.	me of part, item number, N FPER UG-20(f)	ffg's name and indentif	ying stamp)	**HEAD CALC	CULATED Min. 0.93	375 in. (23.81 mm)	
Type: 3 PHASE VERTICAL Weight: 3311 lbs.	SEPARATOR 501.87 (kg)			WO# 4450 Hydrotest Position:	Item # HORIZON	VS1	
그 그 그 이 경기를 하게 하면 하는데 하는데 이 경기를 하고 있는데 하는데 되었다면 하는데	.67 (cu. Meters)			Fabrication Drawing			
We certify that the statements ma	de in this report are con		ils of design, materi	al, construction, and workman	anship of this ves	sel conform to the	
ASME Code for Pressure Vessels				Expires October 28, 2004			
Date 19/03 Comp			ing Ltd Signed _	4/1			
1	(Manufacturer) CERTIFICATE OF SI	HOP/FIELD INSPEC	(Representative)			
Vessel constructed by: Larsen & by the National Board of Boiler an inspected the component describe	Pressure Vessel Inspec	ctors and/or the State					
and state that, to the best of my k 1. By signing this certificate neith Manufacturer's Data Report. Furth of any kind rarising from or connec	nowledge and belief, the er the inspector nor his ermore, neither the inspe	Manufacturer has co employer makes an	nstructed this pressi y warranty, express	ure vessel in accordance with	e pressure vesse	described in this	
	1 //	1/1		11			
	1/4 00	Tako	Commissions All	#97			
Date 10/18, 2003 Signer	(Authorized Inspector)	Tako	[14]	perta 7 ational Board (include. Endorsemen	nts) State, Prov. and N	No.]	

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)

Location of installation:

RESALE

(Name and Address)

Type: Vertical

SEPARATOR

VS-11687

R3524.21

LD-4975-A REV 0

N/A

2003

Purpose Inlet, Outlet, Drain)	No.	Diameter or Size	Туре	Material	Nominal Thk.	Reinforcement Material	How * Attached	Location
	1	3" ID	600# RFLWN	SA-105N	0.81"		1	SHELL
N1-INLET	1	3" ID	600# RFLWN	SA-105N	0.81"		1	TOP HEAD
N2-GAS OUTLET	- 	2" NPS	600# RFWN	SA-105N	SCH 160		2	TOP HEAD
N3-PSV		2" NPS	PIPE	SA-106-B	SCH 160			
N4-OIL LLC	1	3" ID	600# RFLWN	SA-105N	0.81"		1	SHELL
N5-WATER LLC	1	3" ID	600# RFLWN	SA-105N	0.81"		1	SHELL
N6-OIL OUT	1	2" NPS	600# RFWN	SA-105N	SCH 160		2	SHELL
140-OIL COT	1	2" NPS	PIPE	SA-106-B	SCH 160			
N7-WATER OUT	1	2" NPS	600# RFWN	SA-105N	SCH 160		2	SHELL
MATER OOT	1	2" NPS	PIPE	SA-105N	SCH 160			
N8-DRAIN	- i -	2" NPS	600# RFWN	SA-105N	SCH 160		2	BTM HEAD
140-DIVAIN	1	2" NPS	PIPE	SA-106-B	SCH 160			
	1	2" NPS	ELBOW	SA-234-WPB	SCH 160			
			000# DELVA/NI	SA-105N	0.81"		1	SHELL
N9-HLSD	11	3" ID	600# RFLWN		0.81"		1	SHELL
N10 A/B-INSP.	2	3" ID	600# RFLWN	SA-105N	0.81	+		
			271.0	CA 40EN	6000#		2	SHELL
C1A/B-OIL LG	2	3/4" NPS	CPLG	SA-105N SA-105N	6000#	 	2	SHELL
C2A/B-WATER LG	2	3/4" NPS	CPLG		6000#		2	SHELL
C3-PI	1	1/2" NPS	CPLG	SA-105N SA-105N	6000#		2	SHELL
C4-TI	1	3/4" NPS	CPLG	3A-10314	0000#			
		+==						
							 	

1) PER Fig. UW-16.1 (c), 2) P	ER fig. UW-16.1(a)
--------------------------------	--------------------

Certificate of Authorization:

Type: U No. 14254

Date July 18, 2003 Name

Date July 15/63 Name LARSEN & D'AMICO MFG. LTD.

(Authorized Inspector)

Signed (Manufacturer)

Commission Alberta

[Nat'l Board incl. Endorsement, State, Province and No.]

OCTOBER 28

2004