

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

A487425

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., PO BOX 1160, NISKU, ALBERTA T9E 8A8**
 (Name and Address of Purchaser)
3. Location of installation: **RESALE**
 (Name and Address)
4. Type: **3 PHASE VERTICAL SEPARATOR VS-11289 N9713.21 LD-3531-A REV 0 N/A 2002**
 (Horz. Vert. Tank, etc.) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year Built)
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2001 to 2001
 (Year) Addenda (Date)
6. Shell: **SA-516-70N 1.375" (34.93) 1/8" (3.2) 30" O.D. (762) 120" (3048)**
 Mat'l. (Spec. No., Grade) Nom. Thk. inch (mm) Corr. Allow. inch (mm) Diam. I.D. / O.D. inch (mm) Length Overall inch (mm)
7. Seams: **TYPE 1 FULL 100 1150 °F 621 °C 1.5 TYPE 1 FULL UW11(a) 1**
 Long, (Welded, Dbl R.T. (Spot or Full) Eff. (%) H.T. Temp. Time (hr.) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot/Partial/Full) No. of Courses

8. Heads: (a) Mat'l **SA-516-70 N** (b) Mat'l **SA-516-70 N**
 (Spec. No. Grade) (Spec. No. Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness in. (mm)	Corrosion Allowance in. (mm)	Crown Radius in. (mm)	Knuckle Radius in. (mm)	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Concave or Convex)
(a)	TOP	1.3125" (33.34)	1/8" (3.2)	0" (0.00)	0" (0.00)	2:1				CONCAVE
(b)	BOTTOM	1.3125" (33.34)	1/8" (3.2)	0" (0.00)	0" (0.00)	2:1				CONCAVE

If removable, bolts used (describe other fastenings)

N/A
 (Mat'l., Spec. No., Gr., Size, No.)

9. MAWP **1440 psi 9928 Kpa** at max. temp. **100 °F 37.84 °C** Min. design metal temp. **-18 °F -27.77 °C**
 at **1440 psi 9928 Kpa** Hydro Test pressure **2160 psi 14893 Kpa**
10. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain)	No.	Diam. or Size	Type	Mat'l	Nom. Thk.	Reinforcement Mat'l	How Attached	Location
SEE ATTACHED U4 FORM								

11. Supports: Skirt **YES** Lugs **N/A** Legs **N/A** Other **N/A** Attached **BTM HEAD WELDED**
 (Yes or No) (No.) (No.) (Describe) (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: **N/A**

(name of part, item number, Mfg's name and identifying stamp) ****HEAD CALCULATED Min. 1.3125 in. (33.34 mm)**

IMPACT TEST EXEMPT AS PER UG-20(f) PARAGRAPHS 1-5 EXCEPT:
ITEMS 1 & 2 WHICH ARE EXEMPT PER UCS-66 CURVE D

Type: **3 PHASE VERTICAL SEPARATOR** PRESSUR RELIEF DEVICE PROVIDED BY **WO# 4364 Item # VS 1**
 Weight: **7294 lbs. 3308.56 (kg)** OTHERS IN PIPING Hydrotest Position: **HORIZONTAL**
 Capacity: **44.9 cu.ft. 1.27 (cu. Meters)** Fabrication Drawing No. **LD-3531-A REV 1**

CERTIFICATE OF SHOP/FIELD COMPLIANCE

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. "U" Certificate of Authorization No. **14254** Expires **October 28, 2004**

Date **NOV 25, 2002** Company Name **Larsen & D'Amico Manufacturing Ltd** Signed **[Signature]**
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by: **Larsen & D'Amico Manufacturing Ltd. at 9805-51 Avenue, Edmonton, Alberta** 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 **Alberta** and employed by **Alberta Boilers Safety Association** have inspected the component described in this Manufacturer's Data Report on **NOV 25, 2002**

and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his 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 or connected with this inspection.

Date **NOV 25, 2002** Signed **[Signature]** Commissions **Alberta #187**
 (Authorized Inspector) (National Board (include Endorsements) State, Prov. and No.)

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2.	Manufactured for:	ARGO SALES LTD., PO BOX 1160 ,NISKU , ALBERTA T9E 8A8 (Name and Address of Purchaser)						
3.	Location of installation:	RESALE (Name and Address)						
4.	Type:	Vertical (Horz, Vert, or Sphere)	3 PH SEPARATOR (Tank, Sep., Heat Exh., Etc.)	VS-11289 (Mfg'r's Serial No.)	N 9713.21 (CRN)	LD-3531-A REV 0 (Drawing No.)	N/A (Nat'l. Bd. No.)	2002 (Year Built)

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

Expires **OCTOBER 28 2004**

Signed _____
(Manufacturer) (Representative)

Commission **Alberta** #87
[Nat'l Board incl. Endorsement, State, Province and No.]