

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
 (Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only) **(A) 185432**
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by LEGRAND INDUSTRIES LTD., 616 - 58th Avenue S.E., Calgary, Alberta
 2. Manufactured for BECHTEL CANADA LTD FOR ESSO CHEMICAL CANADA
 3. Location of Installation PORTAGE LA PRAIRIE, MANITOBA
 4. Type HORIZONTAL 81-11-01 A2558-4 81-11-010 (Year Built) 1981
(Horiz. or vert. tank) (Mfg'r's Serial No.) (CRN) (Drawing No.) (Nat'l Brd. No.)
 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 1980 (Year) and Addenda to S80 (Date) and Code Case Nos. _____ Special Service per UG-120(d) _____
 Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: _____

6. Shell; Matl. SA 516 Gr 70 Nom. Thk. .875 in. Corr. Allow. .125 in. Diam. 8 ft. 10 in. Length 25 ft. 0 in.
(Spec. No., Grade) (Name of part, item number, Mfg'r's name and identifying stamp)
 7. Seams: Long. BUTT R.T. FULL Eff. 100 % H.T. Temp. _____ F Time _____ hr. Girth BUTT R.T. FULL No. of Courses 3
(Welded, Dbl., Snpl., Lap, Butt) (Spot or Full) (Welded, Dbl., Snpl., Lap, Butt) (Spot, Partial, or Full)
 8. Heads: (a) Material SA 516-GR 70 (b) Material SA 516-GR 70
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Elipse Ratio	Conical Apex Angle	Hemisp. Radius	Fiz. Diam.	Side to Pressure (Conve. or Concave)
ENDS	.820	.125			2:1				CONCAVE

If removable, bolts used (describe other fastenings) _____
(Material, Spec. No., Gr., Size, No.)
 9. Const. for max. AWP 250 psi at max. temp. 120° F. Min. temp. -20° F. Hydro. pneu., or comb. pressure 438 psi.
 10. Safety Valve Outlets: Number 2 Size 4" Location SHELL

11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
MANWAY	1	20" 300#	RFWN	A 105	YE	SA516-70	WELDED	HEAD
VENT	1	6" 300#	RFWN	A 105	SCH 120	SA516-70	WELDED	SHELL
	1	3" 300#	RFWN	A 105	SCH 160	SA516-70	WELDED	SHELL
	4	2" 300#	RFWN	A 105	SCH 160	SA516-70	WELDED	SHELL
	5	1 1/2" 6000#	SW CLPG	A 105			WELDED	SHELL/HEAD
	5	3/4" 6000#	SW CLPG	A 105				SHELL/HEAD

12. Supports: Skirt _____ Lugs _____ Legs _____ Other SADDLES Attached _____
(Yes or no) (No.) (No.) (Describe) (Where and how)

13. Remarks: PROPANE STORAGE DRUM
SURF AREA 950 sq ft
VOL 1400 cu ft

CERTIFICATE OF 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.
 Date Aug 12/81 Signed LEGRAND INDUSTRIES LTD by Dan Douglas
(Manufacturer) (Representative)
 "U" Certificate of Authorization No. 5635 expires 30 JANUARY 19 83

CERTIFICATE OF SHOP INSPECTION

Vessel made by LEGRAND INDUSTRIES LTD at 616 - 58th Avenue S.W., Calgary
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Alberta and employed by GOVERNMENT OF ALBERTA
 have inspected the pressure vessel described in this Manufacturers' Data Report on AUG 12, 1981, 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 the Manufacturers' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.
 Signed [Signature] Date 8/08/81 Commissions _____
(Inspector) (Nat'l Board, State, Province and No.)



MANITOBA

DEPARTMENT OF LABOUR
Mechanical and Engineering Division

MANUFACTURER'S SPECIFICATIONS

UNFIRED PRESSURE VESSEL

Manufactured to Manitoba Regulations 96/57 and CSA B51

Date APRIL 20, 1981

Type of Pressure Vessel PROPANE STORAGE DRUM (To Contain) PROPANE
(Air, Ammonia, Propane, etc.)

Manufactured by LEGRAND INDUSTRIES LTD. 616 58TH AVENUE SE. CALGARY ALBERTA T2H 0P8
(Name and address of manufacturer)

Working Pressure 250 PSIG Temperature 120/-20 Degrees F. Dwg. No. 81-11-010 Rev 1

Designs to A.S.M.E. Code year 1980 Section UW11 Part No. (A)

List registration numbers previously allotted by other provinces

Outside diameter 97 3/4" Overall length 1400 Cu. Ft. cubic feet capacity Heating surface

Outside surface (Required on Propane and A.A. vessels for checking safety valve)

1. OUTER SHELL AND HEADS:

Note: This section also pertains to simple vessel with no inner shell, tube bank or coil. (See Section 2)

Design Pressure 250 PSIG Working Pressure 215 PSIG

Design temperature 120°F Working temperature 120°F

Inside diameter of shell 96" Min. design thickness shell plates 7/8" (0.875")
(Top, bottom, intermediate, etc.)

Shell material spec. No. SA516 GR70
(ASTM-ASME) (Top, bottom, intermediate, etc.)

Longitudinal joint DBL BUTT Longitudinal joint eff. 100% Unit stress, psi 17,500
(Single, double or lap welded, etc.)

Heads 2:1 ENDS
(Flat, dished, elliptical 2:1, etc.) (Top, bottom, intermediate, etc.)

Radius of dish Of knuckle

Inside diameter of heads 96" ENDS
(Top, bottom, intermediate, etc.)

Minimum design thickness of head plates 0.820" ENDS
(Concave head) (Convex head) (Top, bottom, intermediate, etc.)

Head material specification No. SA516 GR70 ENDS
(ASTM-ASME) (Top, bottom, intermediate, etc.)

Type of head joints DBL BUTT ENDS
(Single, double or lap welded, etc.) (Top, bottom, intermediate, etc.)

NOTE: If bolted or riveted construction, give detail sketches with all dimensions, etc., on design drawings.

Corrosion allowance thickness 0.125" 0.125"
(On shell) (On head)

If lined or clad vessel Lining specification No. (ASTM-ASME)
(Thickness of shell lining) (Of head lining)

Safety valve outlets 2 Required safety valve capacity (ASME, lbs. per hour or cubic feet per minute)

Fusible plug NO Drain connection YES 3" Manhole YES 1"
(Yes or No) (Size) (Yes or No) (Size) (Yes or No) (Number)

Number, size and kind of inspection openings (Free of piping and other attachments)

Nozzles SEE NOZZLE DATA ON DRAWINGS
(Type, size, thickness and reinforcing)

Vessel to be stress relieved NO In shop (Yes or No) In field (Yes or No)
(Yes or No) (Yes or No) (Yes or No)

SECTION 1 (Continued)

Vessel to be radiographed YES Spot or complete radiograph COMPLETE
(Yes or No)

Vessel to be examined by sectioning NO Code year and paragraph LW11.(a) 1980
(Yes or No) (ASME)

2. INNER SHELL, COIL OR TUBE BANK (Also heads of same, if any)

Design pressure Working pressure Design temperature Working temp.

Inside diameter of shell Minimum thickness shell plate Shell material spec. No.
(ASTM-ASME)

Longitudinal joint Longitudinal joint efficiency Unit stress per sq. in.
(Single, double or lap welded, etc.)

Heads Radius of dish of knuckle
(Flat, dished, elliptical, 2:1, etc.)

Inside diameter of head Minimum thickness of head plates
(Concave head) (Convex head) (Other heads)

Head material specification No. Type of head joints
(ASTM-ASME) (Single, double or lap welded, etc.)

NOTE: If bored or riveted construction give detail sketches with all dimensions, etc., on design drawings.

Corrosion allowance thickness
(On shell) (On heads)

If lined or clad vessel Lining specification No.
(Thickness of shell lining) (Of head lining) (ASTM-ASME)

Heating surface of coil or tube bank How attached to heads
(Square feet)

Number of tubes Size Thickness or gauge No. Spec. No.
(ASTM-ASME)

Is separate safety valve from that outer shell required Required capacity
(Yes or No) (ASME lbs. per hr. or cu. ft. per min.)

Safety valve outlet Fusible plug
(Number and size) (Yes or No) (Size)

Number, size and kind of inspection openings

To be stress relieved In shop In field
(Yes or No) (Yes or No) (Yes or No)

To be radiographed Spot or complete radiograph
(Yes or No)

To be examined by sectioning Code year and paragraph this part

3. Is the welding procedure to be used registered with the department? SEE BELOW Regist. Number SEE BELOW
(Yes or No)

Do welders hold current certificate? YES, ALBERTA
(Yes or No)

Remarks, etc WELDING PROCEDURES REGISTERED WITH PROVINCE OF ALBERTA BOILERS BRANCH

WP242 LG4 MARCH 24, 1969

LES MARCH 24, 1969

LG19 NOVEMBER 30, 1972

4. I HEREBY CERTIFY THAT if the design to which the foregoing statements pertain is registered by the department, that every vessel manufactured under such registration will be constructed strictly in accordance with these specifications and related drawings, and that each vessel will be stamped in accordance with the CSA B51 Canadian regulations for the Construction and Inspection of Boilers and Pressure Vessels.

B. J. Cellier
(Signature for manufacturer)

APRIL 20, 1981

(Date submitted)

PROVINCE OF MANITOBA
Mechanical & Engineering Division
Registration of Boiler or Pressure Vessel

Drawing No.(s) 81-11-010 Rev 1

Canadian Registration No. A9558-4

Registered for a maximum working pressure
of 250 PSI at 1000 F

Subject to design, construction and inspection in accordance with the applicable A. S. M. E. Code(s) and Regulations made under The Steam and Pressure Plants Act.

81.05.22
DATE EXAMINER

L. A. D. Jones
DIRECTOR

(Leave blank for Department Registration Stamp)