

**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

O.I.N.: 5.1087301 TO  
5.1087310

1. Manufactured and certified by CHIL-CON PRODUCTS LTD, 36 CRAIG STREET, PO BOX 1385, BRANTFORD, ONT, N3T 5T6  
(Name and address of Manufacturer)

2. Manufactured for \_\_\_\_\_  
(Name and address of Purchaser)

Location of installation UNKNOWN

4. Type HORIZ C980015B-(1 TO 10) K7371.51620 58512 8290-8299 1998  
(Horiz. or vert., tank) (Mfg's serial No.) (CRN) (Drawing No.) Rev.2 (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 1995 EDIT.  
(Year)

to A96 1518-4 \_\_\_\_\_  
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

**DUPLICATE**

6. Shell: SA53B 3/8" NIL 16" O.D. 38-1/8"  
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: ERW PIPE NONE 85% -- -- S/BUTT/BACKING NONE 1  
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot Partial, or Full) No. of Courses

8. Heads: (a) Matl. SA 516 70 (b) Matl. SA 516 70  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	END	.2146"	NIL	--	--	2:1	--	--	--	CONCAVE
(b)	END	1.5973"	NIL	--	--	--	--	--	20-1/8"	FLAT

If removable, bolts used (describe other fastenings) SA 193 B7, 5/8" - 11 UNC, QTY = 24 PER HEAD, NUTS: SA 194 2H  
(Matl., Spec. No., Grade, Size, No.)

9. MAWP 400 psi at max. temp. 400 °F  
 Min. design metal temp. -20 °F at 400 psi. Hydro., pneu., or comb. test pressure 500 psi.

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
CONN	1	3-1/8"	W.E.	SA106B	SCH.80	-----	UW-16.1c	TOP
CONN	1	3/4"	SCRD CPLG	SA105	3000 LB	-----	UW-16.2k	BOTTOM
CONN	1	1/2"	SCRD CPLG	SA105	3000 LB	-----	UW-16.2k	TOP
CONN	1	3-1/8"	W.E.	SA106B	SCH.80	-----	UW-16.1i	END

11. Supports: Skirt NO Lugs 4 Legs -- Other ----- Attached SIDES/WELD  
(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:

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(Name of part, item number, Mfg's. name and identifying stamp)  
**NO IMPACT TESTS REQUIRED AS PER UCS-66(a) FOR NON-CORROSIVE SERVICE**  
**HEADS ARE HOT FORMED**

**CERTIFICATE OF SHOP 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. 29646 expires JUNE 5, 2000.

Date April 8/98 Co. Name CHIL-CON PRODUCTS LTD. Signed [Signature]  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by CHIL-CON PRODUCTS LTD. at BRANTFORD, ONTARIO, CANADA

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 ONTARIO and employed by \_\_\_\_\_

have inspected the component described in this Manufacturer's Data Report on 8/4/98, 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 22/4/98 Signed Robert E. Blakemore Commissions 59 NB 8944B  
(Authorized Inspector) (National Board Incl. endorsement), State, Prov. and No. 1