

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

(A) 568183

Manufactured and certified by: NATCO CANADA LTD. 9423 SHEPARD RD. SE. CALGARY, AB T2H 2H3
(Name and address of manufacturer)

Manufactured for: CONOCO PHILLIPS CANADA 401 - 9TH AVE SW, CALGARY, T2P 2H3
(Name and address of purchaser)

3. Location of installation: CONOCO PHILLIPS CANADA STOCK
(Name and address)

4. Type: VERTICAL 8793-03 U 4045.2 RD-8793-03 REV 0 N/A 2008
Horiz. or Vert. tank Mfr.'s Serial No. CRN Dwg. 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 2004
Year

to '06 N/A N/A
Addenda (date) Code Case Nos. Special Service per UG-120(d)

6. Shell SA 106B 0.688" 0.0625" 1' - 10 5/8" 7' - 6"
Mat'l. (Spec. No., Grade) Nom. Thk. Corr. Allow. Diam. I.D. Length (overall)

7. Seams S N/A 100% N/A N/A
Long (welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. Time (hr)
TYPE 1 SPOT 70% 1
Grth (welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, or Full) Eff. (%) No. of Courses

8. Heads (a) Mat'l. SA 516-70N (b) Mat'l. SA 516-70N
(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)	TOP	0.550"	0.0625"			2:1 SE				CONCAVE
b)	BOTTOM	0.550"	0.0625"			2:1 SE				CONCAVE

If removable, bolts used (describe other fastenings)

(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 735 psi at max. temp. 100 °F Min. design metal temp. -20 °F at 735 psi
(internal) (external) (internal) (external)
 Hydro., pneu., or comb. test pressure 1103 psi

Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Material	How Attached	Location

11. Supports: Skirt YES Lugs NIL Legs NIL Other N/A Attached BOTTOM 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:

VERTICAL 2 PHASE SEPARATOR (TAG: V-100) VOLUME: 31.01 CU.FT.
(Name of part, item number, Mfr.'s name and identifying stamp)
IMPACT TEST EXEMPT PER UG-20(f)1-5 & UCS-66(a)(b)(c) FAB. DRG.: D-8793-03 REV 2

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. 11313 Expires September 9, 2010

Date: FEB 20-08 Co. Name: NATCO CANADA LTD. Signed: [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by: NATCO CANADA LTD. at CALGARY, 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 ABSA have inspected the component described in this Manufacturer's Data Report on FEB 20 2008, 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 FEB 20 2008 Signed: [Signature] Commissions: ALBERTA #11
(Authorized Inspector) (Nat'l Board incl. endorsements, State, Prov. and No.)

① 568183

[illegible]

Certificate of Authorization: Type: "U" No. 11.313 Expires: SEPT. 9, 2010.
FEB 20-08 Name: Natco Canada Ltd. Signed: _____
 (Manufacturer) (Representative)
 Date: FEB 7 0 2008 Name: _____ Commission ALTA #11
 (Authorized Inspector) (Natl. Board incl. endorsements, State, Prov. and No.)
 Shop Order #: 8793-03



Certified by
MATCO CANADA LTD.
ONTARIO ALBERTA CANADA

(A) 568153

MAWP 735 PSI @ 100 °F

5068 KPA @ 38 °C

HT-2

MDMT -20 °F @ 735 PSI

-29 °C @ 5068 KPA

SERIAL NO 8793-03 RLT 2008

ORIN U 4045.2 TAG V-100

SH/MAT SA 106 B IN 17.47 MM

HD/MAT SA 51670NTH IN 13.97 MM

CORR. ALL 0625 IN 1.6 MM



the pressure equipment safety authority

9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

February 19, 2008

Attention: Gary Foucault
NATCO CANADA LTD
CALGARY PURCHASES/MARVA
BOX 850 STN T
9423 SHEPARD ROAD SE
CALGARY, AB T2H 2H3

Re: Design registration

The design submission, tracking number 2008-00392, originally received on January 17, 2008 was surveyed and accepted for registration as follows:

CRN : U4045.2

Accepted on: February 19, 2008

Reg Type: New Design

Drawing No. : RD-8793-03 SHT 1 Rev 0 As Noted

Description	MAWP	Design Temperature	MDMT
Internal Pressure	5068 kPa	38°C	-29°C

The registration is conditional on your compliance with the following notes:

External nozzle fillet weld sizes detailed as 1/4" are revised to 3/8".

An acceptance letter and a copy of the stamped drawing will be sent to you.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3358 or fax (780) 437-7787 or e-mail Chomin@absa.ca.

Sincerely,

CHOMIN, DWIGHT, P. Eng.
Design Survey Engineer

8793-03