

**MANUFACTURER'S DATA REPORT FOR INDIRECT FIRED HEATER COILS**

PARTIAL

A # 542713

<b>Manufactured By:</b>	NATCO CANADA LTD. 9423 SHEPARD RD. SE CALGARY, AB T2C 4R6
<b>Manufactured For:</b>	CONOCO PHILLIPS CANADA 401-9TH AVE SW, CALGARY, AB T2P 2H3
<b>Ultimate Owner:</b>	AS ABOVE
<b>Location of Installation:</b>	GRANDE CACHE LSD: 10 - 33 - 60 - 10 W6M

<b>Manufacturer Serial No.</b>	<b>Construction Drawing No.</b>	<b>CODE: ASME</b>	<b>Year Built</b>
8414-52	D-8414-52	Edition 2004 Addenda - /	2005

**CONSTRUCTION**

	Coil ID/Purpose	Design Pressure	Design Temp	Design Minimum Temp	Corrosion Allowance	Registered Drawing No.	CRN
a	3" XXH 2500# RTJWN	5625 psi	200°F	-20°F	0.0625"	RD-520300-00	L5831.21
b	3" S160 900#	2000 psi	200°F	-20°F	0.125"	RD-520300-00	L5831.21
c							
d							
e							

**COIL**

	Tubes			End Closures			Openings			
	Mat'l Spec.	Diameter	Thickness	Mat'l Spec.	Thickness	Mat'l Spec.	Rating	Mat'l Spec.	Size/Type	Rating
a	SA 106B	3 XXH	0.600"	SA234 WPB	0.600"	SA 105N	2500#			
b	SA 106B	3 S160	0.438"	SA234 WPB	0.438"	SA 105N	900#			
c										
d										
e										

**HEADERS/MANIFOLDS**

	Purpose	Size	Shell		Ends			Openings	
			Mat'l Spec.	Thickness	Mat'l Spec.	Thickness	No.	Size/Type	Rating
f									
g									

**TEST PRESSURE, NDE AND POST WELD HEAT TREATMENT**

	Hydrostatic Test Pressure	Radiograph (100% or % Random)	Other NDE (MT) (PT) (UT)	Post Weld Heat Treatment		Overall Length	Heating Surface	Volume
				Temp.	Time			
a	8438 psi	100%		1150°F	1 HR	18' - 6 3/4"	136.9 SQ.FT.	4.344 CU.FT.
b	3000 psi	100%		1150°F	1 HR	18' - 6 3/4"	139.9 SQ.FT.	5.685 CU.FT.
c								
d								
e								
f								
g								

IMPACT TESTING: IMPACT TEST EXEMPT PER 323.3

REMARKS: PROCESS COIL FOR INDIRECT FIRED HEATER

**CERTIFICATE OF COMPLIANCE**

We certify that the statements in this report are correct and that all details of design, material, construction, and workmanship of this coil bundle are in accordance with the above Provincial Registered Design.

Date DEC 15 2005 Signed [Signature] For NATCO CANADA  
(Representative) (Manufacturer)

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, a duly authorized Safety Codes Officer employed by ABSA has inspected the above Heater Coils and state that, to the best of my knowledge and belief, the construction is in accordance with the Alberta Safety Codes Act and Regulations.

Date DEC 15 2005 Signed [Signature] AB 40