

ABSA

ALBERTA BOILERS SAFETY ASSOCIATION

Manufacturers Data Report

For Indirect Fired Heater Coils

(A) No. 3112160

3112160

Manufactured by Maloney Steel Ltd. 8825 Shepard Road S.E., Calgary, Alberta T2H 1X1
 Manufactured for SUNCOR INC. 112 - 4 Ave. S. W., Calgary, Alberta T2P 2V5
 Ultimate Owner SUNCOR INC. 112 - 4 Ave. S. W., Calgary, Alberta T2P 2V5
 Location of Installation 15-20-73-6-W6M
 Mfg. Serial Number 95-C3159-3001-A Year Built 1995
 Drawing Number 95-C3159-3001 Intended Service

a. Material Specifications SA106-B SA234WPB/SA105N 1500#
 Coil Ends (Flange/N.P.T.) Rating
 b. Material Specifications SA106-B SA234WPB/SA105N 900#
 Coil Ends (Flange/N.P.T.) Rating
 c. Material Specifications SA106-B SA234WPB/SA105N 300#
 Coil Ends (Flange/N.P.T.) Rating

a. Diameter 3 Nom. Thickness .438 O/A Length 15'-9" C/A .128"
 b. Diameter 3 Nom. Thickness .438 O/A Length 15'-9" C/A .128"
 c. Diameter 1 1/2 Nom. Thickness .145 O/A Length 16'-0" C/A .0625"

a. Maximum Working Pressure 21370 Kpa at Maximum Temperature 93 °C
 b. Maximum Working Pressure 13060 Kpa at Maximum Temperature 93 °C
 c. Maximum Working Pressure 4650 Kpa at Maximum Temperature 93 °C

a. Hydrostatic Test Pressure 32063 Kpa C.R.N. M8872.2
 b. Hydrostatic Test Pressure 20040 Kpa C.R.N. M8872.2
 c. Hydrostatic Test Pressure 6975 Kpa C.R.N. M8872.2

Heating Surface Radiography 100% (Random, %, Full)
 Volume P.W.H.T. YES
 Remarks a) 11.576m², b) 5.812m², c) 4.641m²
 a) 0.257m², b) 0.129m², c) 0.056m²

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 is in accordance with Registered Design

No. M8872.2

Date: Aug 11/95 Signed WJH For Maloney Steel Ltd.
 (Representative) (Manufacturer)

CERTIFICATE OF INSPECTION

I, the undersigned, a duly authorized Boiler and Pressure Vessel Inspector employed by Alberta Boilers Safety Association have inspected the above Heater Coils and state to the best of my knowledge and belief, the construction is in accordance with the Alberta Safety

Date: 11/8/95 Signed [Signature] CB-42 (94/06)

(A) 3112160

PARTIAL DATA REPORT

PROVINCE OF B.C., MINISTRY OF LABOR
SAFETY ENGINEERING SERVICES DIVISION
BOILER & PRESSURE VESSEL SAFETY BRANCH

HEATER COILS

No. 2P7967 to 2P7969

Manufactured by Maloney Steel Ltd-2, 1655 Dilworth Drive Kelowna B.C. V1Y 8M1
Manufactured for Maloney Steel Ltd, Calgary Jurisdiction AB
Ultimate Owner Suncor Inc. 112, 4th Ave. S.W., Calgary AB T2P 2V5
Location of Installation Unknown

Type	<u>Indirect</u>	<u>95-K8454-A,B & C</u>	<u>N/A</u>	<u>1995</u>
	(Direct-Indirect)	Mfg. Serial Number	C.R.E. Number	Year Built
COIL # Drawing Number	<u>C3159-3001</u>		Intended Service	<u>Nat. Gas</u>
1 Material Specifications	<u>SA106-B</u>	<u>Oil</u>	<u>SA234-WPB</u>	<u>1500#</u>
			<u>Ends (Flanges/R.P.T.)</u>	<u>Rating</u>
2 Material Specifications	<u>SA106-B</u>	<u>Oil</u>	<u>SA234-WPB</u>	<u>900#</u>
			<u>Ends (Flanges/R.P.T.)</u>	<u>Rating</u>
3 Material Specifications	<u>SA106-B</u>	<u>Oil</u>	<u>SA234-WPB</u>	<u>300#</u>
			<u>Ends (Flanges/R.P.T.)</u>	<u>Rating</u>

Material Specifications		Coil	Ends (Flanges/R.P.T.)	Rating
1 Diameter	<u>3 inch</u>	<u>Nom. Thickness</u>	<u>0.438</u>	<u>O/A Length 15'-09"</u>
2 Diameter	<u>3 inch</u>	<u>Nom. Thickness</u>	<u>0.438</u>	<u>O/A Length 15'-09"</u>
3 Diameter	<u>14 inch</u>	<u>Nom. Thickness</u>	<u>0.145</u>	<u>O/A Length 16'-0"</u>
Diameter		<u>Nom. Thickness</u>		<u>O/A Length</u>
1 Max. Working Pressure	<u>3100 psig</u>		<u>at Max. Temperature</u>	<u>2000F</u>
2 Max. Working Pressure	<u>2025 psig</u>		<u>at Max. Temperature</u>	<u>2000F</u>
3 Max. Working Pressure	<u>675 psig</u>		<u>at Max. Temperature</u>	<u>2000F</u>
Max. Working Pressure			<u>at Max. Temperature</u>	
1 Hydrostatic Test Press.	<u>4650 psig</u>	<u>R.T.</u>	<u>100%</u>	<u>P.W.H.T. Yes</u>
			<u>(Rupture 3 or Full)</u>	
2 Hydrostatic Test Press.	<u>3038 psig</u>	<u>R.T.</u>	<u>100%</u>	<u>P.W.H.T. Yes</u>
			<u>(Rupture 3 or Full)</u>	
3 Hydrostatic Test Press.	<u>1013 psig</u>	<u>R.T.</u>	<u>100%</u>	<u>P.W.H.T. Yes</u>
			<u>(Rupture 3 or Full)</u>	
Hydrostatic Test Press.		<u>R.T.</u>		<u>P.W.H.T.</u>
			<u>(Rupture 3 or Full)</u>	

Volume Coil #1= 9.086 ft³; Coil #2= 4.562 ft³; Coil #3= 1.978 ft³
Remarks _____

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 is in accordance with Registered Design No.

Date July 19, 1995Signed Kimberly Robb
(Representative)For Maloney Steel Ltd.-2

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, a duly authorized Inspector of Boilers and Pressure vessels employed by Province of B.C., Ministry of Labor, Safety Engineering Services Division, do hereby certify that the construction is in accordance with the Boilers and Pressure Vessels Regulations.

Date 95-07-19Signed K. St. Louis

••NOTE: