0538

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

(Alternative Form for Single Chamber, Completely Shop Fabricated - Vessel Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

(A) 3130849

1 Manufactured and certified by: **Maloney Steel Ltd. 8825 Shepard Road S.E. Calgary, Alberta T2H 1X1** (Name and address of manufacturer)

2 Manufactured for: **STARTEC REFRIGERATION SERVICES LTD. 6700 - 9 ST. N.E., CALGARY, AB. T2E 8K6** (Name and address of purchaser)

3 Location of installation: **PORTABLE** (Name and address)

4 Type: **HORIZONTAL** (Horizontal or vert. tank) | **95-C3421-3000E** (Mfg's serial No.) | **N0488.2** (CRN) | **C3421-3000 REV.1** (Drawing No.) | **N/A** (Natl. Bd.No.) | **1995** (Year built)

5 The chemical and physical properties of all parts meet the requirements of material specification of the ASME BOILER AND PRESSURE VESSELS CODE. The design,construction, and workmanship conform to ASME Rules, Section VIII, Division 1 **1992** (Year)

to: **A94** (Addenda (date)) | **N/A** (Code Case Nos.) | **N/A** (Special service per UG-120(d))

6 Shell: **SA106B** (Mat'l (Spec. No., Grade)) | **.375"** (Nominal Thk. (in.)) | **.0625"** (Corr.Allow.(in)) | **1'-6" OD** (Diameter I.D.(ft.&in.)) | **6'-0" S/S** (Length (overall) (ft & in))

7 Seams:

Long.(Welded, Dbl., Sngl.,Lap,Butt)	R.T.(Spot or Full)	Effy.(%)	H.T. Temp (°F)	Time (hr)	Girth (Welded Dbl., Sngl.,Lap,Butt)	R.T. (Spot, Partial, or Full)	No. of Courses
SEAMLESS	N/A	100	N/A	N/A	TYPE NO. 1	SPOT	1

8 Heads: (a) Matl. **SA516-70** (Spec. No. Grade) (b) Matl. **SA516-70** (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	.345"	.0625"	--	--	2:1 SE	--	--	--	CONCAVE
(b)	END	.345"	.0625"	--	--	2:1 SE	--	--	--	CONCAVE

If removable, bolts used (describe other fastenings) **N/A** (Matl., Spec. No., Gr.,Size, No.)

9 MAWP: **350** psi at max. temp **250** °F

Min.Design Met.Temp. **-20** °F at **350** psi Hydro.,pneu, or comb. test pressure **525** psi

10 Nozzles, Inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diameter or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached	Location
INLET	1	3"	RFWN 300#/PIPE	SA106B	.436"	INTEGRAL	WELDED	SHELL
GAS OUTLET	1	3"	RFWN 300#/PIPE	SA333-6	.300"	INTEGRAL	WELDED	SHELL
OIL OUTLET	1	2"	RFWN 300#/PIPE	SA333-6	.343"	INTEGRAL	WELDED	SHELL
LEVEL	2	1 1/2"	CPLG.	SA105	6000#	INTEGRAL	WELDED	SHELL
DRAIN,FILL,PSV	3	3/4"	TOL	SA105	6000#	INTEGRAL	WELDED	SHELL
LSL	1	1 1/2"	LONG CPLG.	SA105	6000#	INTEGRAL	WELDED	SHELL
TSHH	1	1/2"	CPLG.	SA105	6000#	INTEGRAL	WELDED	SHELL

11 Supports: Skirt **NO** (Yes/No) Lugs **0** (No.) Legs **0** (No.) Other **2 SADDLES** (Describe) Attached **WELDED TO SHELL** (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: **N/A** (Name of part, item number, Mfg's name and identifying stamp)

GAS ACCUMULATOR TAG

IMPACT TESTING: **IMPACT TEST EXEMPTION PER UG-20(f)**

VOLUME: **11.23 FT.³ (0.32 M³)**

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. **15742** expires **MAY 5, 1998**

Dec 19/95 Co. Name **Maloney Steel Ltd** (Manufacturer) Signed (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by **Maloney Steel Ltd** at **Calgary, Alberta, 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 **Alberta** and employed by **Alberta Boilers Safety Association** have inspected the component described in the Manufacturer's Data Report on 19-12-19 95, 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 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.

19-12-95 Signed (Authorized Inspector) Commissions **Alberta #11** (Nat'l Bd (incl.endorsements), State,Prov. and No.)