9-37 G-2

125 ton

FORM U-1A MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS

Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only

1. Manufactured by Leader Iron Works, Inc. (Name and address of Manufacturer) Decatur, Illinois
2. Manufactured for Cardox Corporation (Name and address of Purchaser) Chicago, Illinois
3. Type Horiz. (Horiz. or Vert.) Vessel No. (32027) (Mfrs. Serial) ( ) (State & State No.) Natl. Bd. No. 32268 Yr. Built 1959
4. SHELL: Matl. A-212-B T.S. FL 70000 Nom. Thk. 1¼ In. Corr. Allow. 0 In. Diam 10 Ft 6 In. Lgth. 50 Ft 0 In. (Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)
5. SEAMS: Long Weld-D-Butt S.R. Yes X.R. Complete Sectioned No Efficiency 95 % (Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)
   Girth Weld-D-Butt S.R. Yes X.R. Complete Sectioned No No. of Courses 7
   If riveted or brazed describe seams fully under remarks.
6. HEADS: (a) Material A-212-B FL T.S. 70000 (b) Material ____ T.S. ____

	Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Ends	1¼ Min.			2:1				Concave
(b)									

   If removable, bolts used ____ (Material, Spec. No., T.S., Size, Number) Other fastening ____ (Describe or Attatch Sketch)
7. Constructed for {Int. / Ext} pressure of 325 psi Max Temp 450 °F Subzero ____ °F Hydrostatic Test 490 psi
8. SAFETY OR RELIEF VALVE OUTLETS: Number 2 Size 2" Location Shell
9. NOZZLES:

Purpose (Inlet Outlet, Drain)	Number	Diam or Size	Type	Material	Thickness	Reinforcement Material	How Attached
	1	2 1/2	Nipple	Stl.	Sch. 80		Weld
	3	2	Nipple	Stl.	Sch. 80		Weld

10. INSPECTION OPENINGS: Manholes, No. 1 Size 15 Location Shell
    Handholes, No. ____ Size ____ Location ____
    Threaded, No. ____ Size ____ Location ____
11. SUPPORTS: Skirt No (Yes or No) Lugs ____ (Number) Legs ____ (Number) Other None (Describe) Attached ____ (Where & How)
12. REMARKS: This is a 125 ton Storage Tank.

(Brief description of purpose of the vessel, as Air Tank, Water Tank, L.P.G., Etc.—State Contents.)

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this vessel conform to the ASME Code for Unfired Pressure Vessels.

Date 9/11 19 59 Signed Leader Iron Works, Inc. (Manufacturer) By [signature]

Certificate of Authorization Expires Dec. 31, 1961

CERTIFICATE OF SHOP INSPECTION

PAID
RECEIVED

Inspection Agency's Serial No. H.S.B. 32267

VESSEL MADE BY Leader Iron Works, Inc. at Decatur, Illinois

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in THE STATE OF ____ and employed by Hartford Steam Boiler Insp. & Ins. Co. of Hartford, Conn. ____ inspected internally and externally, the vessel described in this report on ____ 19____, and certify that the statements made in this report are correct corresponding with mill test reports of materials furnished by the builders, and measurements made of the vessel and that this vessel is constructed in accordance with the ASME Code for Unfired Pressure Vessels.

Date 9-11 1959

[signature] Inspector's Signature

Commissions NB 4159 State or Natl. Bd. & Number

Printed in U. S. A.

Copies of this Form obtainable from Amer. Soc. Mech. Eng., 29 W. 39th St., New York 18, N. Y.

BUILT BY

LEADER IRON WORKS, INC.

DECATUR, ILLINOIS

MFG. ORDER NO. [illegible] MFG. SERIAL NO. [illegible]

YEAR BUILT [illegible]

MAXIMUM DESIGN PRESS. [illegible]

NAT'L BOARD NO. [illegible]

R. S. O. NO. [illegible]

CUST. SERIAL NO. [illegible]

9-37-92

PAID
TREASURER

REPORT OF PHYSICAL AND CHEMICAL PROPERTIES OF STEEL USED

CUSTOMER CARDOX CORP. OUR ORDER NO. 9-37-G 2

ADDRESS CHICAGO, ILLINOIS CUST. ORDER NO. 2346 (125 TON STORAGE TANK)

ITEM	SUPPLIER	HEAT NO.	Steel Specs.	Ten Str. lbs./sq. in.	Elast. Lt. lbs./sq. in.	Elong. %	CHEMICAL ANALYSIS C.	Mn.	P.	Sul.	Sil.	Cr.	Ni.
HEAD } 2 Pcs.	WICKWIRE	4-6314 K (27)	A-212-B Flg. Sil.	75,600	42,500	28.2	.27	.80	.012	.020	.20		
"	"	4-6314 K (23)	"	75,700	42,600	30.0	"	"	"	"	"		
HEAD } 2 Pcs.	"	4-6314 K (24)	"	75,400	42,600	29.0	"	"	"	"	"		
"	"	4-6308 K (1)	"	74,500	42,300	28.5	.28	.68	.012	.025	.19		
SHELL COURSE #1	"	5-1570 K (11)	"	77,200	43,400	25.5	.26	.74	.014	.032	.27		
" #2	"	5-1570 K (14)	"	78,500	43,900	25.0	"	"	"	"	"		
" #3	"	5-1570 K (13)	"	76,100	42,200	26.0	"	"	"	"	"		
" #4	"	4-6308 K (8)	"	78,400	44,000	25.0	.28	.68	.012	.025	.19		
" #5	"	4-6308 K (9)	"	76,600	43,000	26.2	"	"	"	"	"		
" #6	"	3-2807 K (14)	"	78,300	44,800	31.2	.28	.74	.013	.019	.22		
" #7	"	4-6308 K (7)	"	78,500	44,900	28.2	.28	.68	.012	.025	.19		

I HEREBY CERTIFY THAT THE ABOVE IS AN EXACT COPY OF SUCH DATA LISTED ON THE MILL TEST REPORTS RETAINED IN OUR FILES.

LEADER IRON WORKS, INC.

BY Norman E. Anderson

DATE 8-11-59