

FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

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1. Manufactured by Lee Industries, Inc., 514 W. Pine St., Philipsburg, PA 16866
(Name and address of manufacturer)

2. Manufactured for American Cyanamid Co., Purch. Dept., Lederle Lab. Div., Middletown Rd.,
(Name and address of purchaser) Pearl River, NY 10965

3. Location of installation Unknown
(Name and address)

4. Type Vert. Uniflow Jkt. tank Vessel No. A-9208 - C-2254R2 3379 Year Built 1984
(Horiz., or vert. tank) (Mfr's Serial No.) (CRN) (Drawing) (Nat'l Bld No.)

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 1983 and Addenda to Winter of 1983 (Date) and Code Case no. - Special service per UG-120(d) -

Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: -
(Name of part, item number, mfr's name and identifying stamp)

* Items 6-11 incl. to be completed for single walled vessels, jackets of jacketed vessels, or shells of heat exchangers

* 6. Shell: Material SA240304 Nominal Thickness .078 in. Corrosion Allowance - in. Diam. 2 ft 2 in. Length - ft - in.
(Spec. No., Grade)

* 7. Seams: Longitudinal Welded single butt R.T. No Efficiency N/A % H.T. Temp No F
(Welded, Dbl., Sngl., Lap, Butt) (Spot or Full)

Time No Girth - (Welded Dbl., Sngl., Lap, Butt) R.T. - No. of Courses -
(Spot, Partial or Full)

* 8. Heads: (a) Material - (Spec. No., Grade) (b) Material - (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)	-	-	-	-	-	-
(b)	-	-	-	-	-	-
	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)		
(a)	-	-	-	-		
(b)	-	-	-	-		

If removable, bolts used (describe other fastenings) -

* 9. Type of Jacket Uniflow coil jacket (Material, Spec. No., Gr., Size, No.)
Proof Test Cyl. 1200 PSIG

* 10. Jacket Closure Welded Single Fillet If bar, give dimensions - If bolted, describe or sketch.
(Describe as ogee & weld, bar, etc.)

* 11. Constructed for max. allowable working pressure 100 psi at max. temp. 338° F Min. temp. (when less than -20 F) - F.
Hydrostatic, ~~pressure~~ test pressure 151 psi

Items 12 and 13 to be completed for tube sections

12. Tubesheets: Stationary—Material - (Spec. No. Gr.) Diam. - in. Nominal Thickness - in. Corrosion Allowance - in. Attachment - Floating—Material - (Spec. No., Grade) Diam. - in. (Welded, Bolted)

Nominal Thickness - in. Corrosion Allowance - in. Attachment -

13. Tubes: Material - (Spec. No., Gr.) O.D. - in. Nominal Thickness - in. or gauge Number - Type - (Straight or "U")

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell: Material SA240316L Nominal Thickness .109 in. Corrosion Allowance - in. Diam. 2 ft 2 in. Length 2 ft 2 in.
(Spec. No., Gr.)

15. Seams: Longitudinal Welded Dbl Butt R.T. Spot Efficiency 85 % H.T. Temp No F Time No
(Welded, Dbl., Sngl., Lap, Butt) (Spot or Full)

Girth - R.T. - No. of courses 1
(Welded, Dbl., Sngl., Lap, Butt) (Spot, Partial, or Full)

16. Heads: (a) Material SA240316L (Spec. No., Grade) (b) Material SA240316L (Spec. No., Gr.)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)	<u>Bottom</u>	<u>.1875</u>	<u>-</u>	<u>26</u>	<u>2 1/2</u>	<u>-</u>
(b)	<u>Top</u>	<u>.1875</u>	<u>-</u>	<u>26</u>	<u>2 1/2</u>	<u>-</u>
	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)		
(a)	<u>-</u>	<u>-</u>	<u>-</u>	<u>Concave</u>		
(b)	<u>-</u>	<u>-</u>	<u>-</u>	<u>Concave</u>		

If removable, bolts used (describe other fastenings) -

(Material, Spec. No., Gr., Size, No.)

Internal
17. Constructed for max. allowable working pressure 100 psi at max temp. 338° F. Min. temp. (when less than -20 F)
Hydrostatic, ~~pressure~~ test pressure 151 psi.

Items below to be completed for all vessels where applicable

18. Safety Valve Outlets: Number By Customer Size - Location (1) Steam Supply
19. Nozzles: (2) Top Head

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached
Steam Inlet	2	3/4"	CPLG	SA182F304	3000#	Inherent	Welded
Cond. Outlet	2	3/4"	CPLG	SA182F304	3000#	Inherent	Welded
Top Hd. Conns.	1	1"	FLANGE	SA312TP316L	Sch 10	Inherent	Welded
Top Hd. Conns.	2	1 1/2"	FLANGE	SA312TP316L	Sch 10	Inherent	Welded

20. Inspection Openings:

Manholes No. - Size - Location -
Handholes No. 1 Size 8" Location Top Head
Threaded No. - Size - Location -

21. Supports: Skirt No Lugs - Legs 3 Other - Attached Shell Welded
(Yes or no) (No.) (No.) (Describe) (Where and how)

22. Remarks: 60 gallon (220L) Dished bottom, non removable dished top uniflow jacketed
"UDB" tank. Tested in the vertical position.

CERTIFICATE OF 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.

Date 9/26/84 Signed Lee Industries, Inc. by N. W. Myers
(Manufacturer) (Representative)

"U" Certificate of Authorization No. 899 expires March 31, 1986

CERTIFICATE OF SHOP INSPECTION

Vessel made by Lee Industries, at Philipsburg

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 Pennsylvania and employed by H. S. B. I. & I. Co. of Hartford, CT have inspected the pressure vessel described in this Manufacturers' Data Report on 9-26-84 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 Manufacturers' 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 9-26-84 Signed S. M. Leach Commissions Nat'l Board 7977 Pa 2202
(Inspector) (Nat'l Board, State, Province and No.)

CERTIFICATE OF COMPLIANCE FOR FIELD WORK

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.

Date - Signed - by -
(Manufacturer) (Representative)

"U" Certificate of Authorization No. expires , 19

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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 and employed by have compared the statements in this Manufacturers' Data Report with the described pressure vessel and state that parts referred to as data items, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1.

The described vessel was inspected and subjected to a hydrostatic test of psi.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturers' 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 - Signed - Commissions -
(Authorized Inspector) (Nat'l Board, State, Province and No.)

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- Data Report**
Item Number

Date 9/26/84 Lee Industries, Inc.
Manufacturer Signed N.W. Myers

Date 9-26-84 Authorized Inspector's Signature S.M. Lush Commissions Nat. B 7979 Pa 2202
Natl. Board, State, Province and No.