

VT/HT 2500 Gallons

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

1. Manufactured by De Dietrich & Cie, 1 rue d'Offwiller, 67110 Zinswiller, France
(Name and address of manufacturer)
2. Manufactured for Chemetics International (U.S.), Inc. Vancouver, B.C., Canada
(Name and address of purchaser)
3. Location of installation First Chemical Corp. Pascagoula, Mississippi
(Name and address)
4. Type Vertical/horiz. Vessel No. 32279 N/A VT-1850-008 B 2964 Year Built 1981
(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 1977 and Addenda to Winter 79 (Date) and Code Case No. N/A Special service per UG-120(d) N/A
- Manufacturers' 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, mfr's name and identifying st., mp)

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

6. Shell: Material SA 285 B Nominal Thickness 25/32 in. Corrosion Allowance N/A in. Diam. 6 ft. in. Length 11 ft. in. 5-23/64
7. Seams: Longitudinal Welded, Dbl. Butt R.T. Spot Efficiency 85 % H.T. Temp. * F
(Welded, Dbl., Sngl., Lap, Butt) (Spot or Full)
- Time * Girth Welded, Dbl. Butt R.T. Partial No. of Courses 1
(Welded Dbl., Sngl., Lap, Butt) (Spot, Partial or Full)
8. Heads: (a) Material SA 285 B (Spec. No., Grade) (b) Material SA 285 B (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)	Top	7/8"	N/A	N/A	N/A	2/1
(b)	Bottom	7/8"	N/A	N/A	N/A	2/1
	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)		
(a)	N/A	N/A	N/A	Concave		
(b)	N/A	N/A	N/A	Concave		

If removable, bolts used (describe other fastenings)

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

9. Type of Jacket N/A Proof Test
10. Jacket Closure N/A If bar, give dimensions If bolted, describe or sketch.
(Describe as ogee & weld, bar, etc.)
11. Constructed for max. allowable working pressure 148.5 psi at max. temp. 400° F Min. temp. (when less than -20 F) N/A F.
Hydrostatic, ~~XXXXXX~~ test pressure 148.5 psi

Items 12 and 13 to be completed for tube sections

12. Tubesheets: Stationary—Material N/A Diam. (Subject to pressure) in. Nominal Thickness in. Corrosion Allowance in. Attachment (Welded, Bolted) Floating—Material (Spec. No., Grade) Diam. in. Nominal Thickness in. Corrosion Allowance in. Attachment (Spec. No., Gr.)
13. Tubes: Material N/A O.D. in. Nominal Thickness in. or gauge Number Type (Straight or "U")
(Spec. No., Gr.)

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

14. Shell: Material N/A Nominal Thickness in. Corrosion Allowance in. Diam. ft. in. Length ft. in.
(Spec. No., Gr.)
15. Seams: Longitudinal N/A R.T. Efficiency % H.T. Temp. F Time
(Welded, Dbl., Sngl., Lap, Butt) (Spot or Full)
- Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of courses
16. Heads: (a) Material N/A (Spec. No., Grade) (b) Material (Spec. No., Gr.)

	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)

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

(12/31/77)

422111/3

P.O. #233-5251-001 (Spare)

This form (E00108) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

17. Constructed for max. allowable working pressure N/A psi at max temp. F. Min. temp. (when less than -20 F) F.
 Hydrostatic, pneumatic, or combination test pressure psi.

Items below to be completed for all vessels where applicable.

18. Safety Valve Outlets: Number N/A Size Location

19. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached
see attached form	U-4						

20. Inspection Openings:

Manholes No. 1 Size 31-1/2" dia. Location On head

Handholes No. 0 Size Location

Threaded No. 0 Lifting Size 4-3" Location

21. Supports: Skirt NO Lugs (No) Legs (No) Other 4 side support lugs Attached Welded on heads & shell
 (Yes or no) (No) (No) (Describe) (Where and how)

22. Remarks:

see attached form U-4

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 Aug. 25, 81 Signed De Dietrich & Cie

by WAGNER R. D.C. MGR.

"U" Certificate of Authorization No. 11718

expires April 16 19 83

CERTIFICATE OF SHOP INSPECTION

Vessel made by De Dietrich & Cie at Zinswiller, France

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 New York and employed by The Royal Indemnity Company of New York, N.Y. have inspected the pressure vessel described in this Manufacturers' Data Report on July 10 19 81

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 Aug. 25, 1981

Signed Martin KOENIG Commissions

N.B. 9354

(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

(Manufacturer)

by

(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

of 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 (Authorized Inspector)

Commissions

(Nat'l Board, State, Province and No.)

FORM U-4 MANUFACTURERS' DATA REPORT SUPPLEMENTARY SHEET
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

N° 6461/2

1. Manufactured by De Dietrich & Cie, 1 rue d'Offwiller, 67110 Zinswiller, France
(Name and address of manufacturer)
2. Manufactured for Chemetics International (U.S.), Inc. Vancouver, B.C., Canada
(Name and address of purchaser)
3. Location of installation First Chemical Corp. Pascagoula, Mississippi
(Name and address)
4. Type Vertical/horizontal Vessel Number 32279 N/A VT-185C-008 B 2964
Horiz. Vess. Tank, etc. Mfg. serial CRN Owg Nat'l Bld No.
- Year Built 1981

Data Report
Item Number

Remarks

Purpose	19 Nozzles		Type	Material	Nominal thickness	Reinforcement material	How attached
	Number	Diam. or size					
Inlet	1	24"	Dbl. Butt Girth	SA 181-60	25/32"	None	Welded
Inlet	1	18"	Dbl. Butt Girth	SA 181-60	45/64"	None	Welded
Inlet	1	8"	Dbl. Butt Girth	SA 181-60	5/8"	None	Welded
Inlet	13	6"	Dbl. Butt Girth	SA 181-60	5/8"	None	Welded
Inlet	2	4"	Dbl. Butt Girth	SA 181-60	5/8"	None	Welded
Inlet	3	3"	Dbl. Butt Girth	SA 181-60	5/8"	None	Welded
Outlet	1	6"	Dbl. Butt Girth	SA 181-60	5/8"	None	Welded

20 Remarks *Vessel H.I. at high temperature for extended period of time due to glass lining process.

*Vessel can be used in vertical or horizontal position.

Glass lined steel vessel for chemical use.

Date August 25, 1981 De Dietrich & Cie
ManufacturerSigned WAGNER R. Q.C. MGR.Date Aug 25, 1981
 Authorized Inspector's Signature Martin KOENIGCommissions N.B. 9354
Natl. Board, State, Province and No.

422111/3 P.O. #233-5251-001 (Spare)



FORM R-1 REPORT OF REPAIR

0052001007
Sales Order No.

4216697
Serial No.

in accordance with the provisions of the *National Board Inspection Code*

1.	WORK PERFORMED BY:	Pfautler, Inc. <small>(name of repair organization)</small>	1434 <small>(Form Registration No.)</small>
		1000 West Avenue, Rochester, New York, 14611 <small>(address)</small>	4216697/V171037 <small>(Po No., Job No., etc.)</small>
2.	OWNER:	Chemours Company FC LLC <small>(name)</small>	
		P.O. Box 2900, Chestnut Run Plaza 735 3255-5, Wilmington, Delaware, 19805 <small>(address)</small>	
3.	LOCATION OF INSTALLATION:	First Chemical Corp. <small>(name)</small>	
		1001 Industrial Road, Pascagoula, Mississippi, 39581 <small>(address)</small>	
4.	ITEM IDENTIFICATION:	Pressure Vessel <small>(boiler, pressure vessel or piping)</small>	NAME OF ORIGINAL MANUFACTURER: DeDietrich, France
5.	IDENTIFYING NOS.:	32279 <small>(mfg. serial no.)</small>	2964 <small>(National Board No.)</small>
		N/A <small>(Jurisdiction No.)</small>	N/A <small>(other)</small>
			1981 <small>(year built)</small>
6.	NBIC EDITION / ADDENDA:	2015 <small>(edition)</small>	N/A <small>(addenda)</small>
	Original Code of Construction for Item:	ASME/VIII/1 <small>(name/ section/ division)</small>	1977/1979W <small>(edition/ addenda)</small>
	Construction Code Used for Repair Performed:	ASME/VIII/1 <small>(name/ section/ division)</small>	2015/ <small>(edition/ addenda)</small>
7.	REPAIR TYPE:	<input checked="" type="checkbox"/> Welded	<input type="checkbox"/> Graphite Pressure Equipment
			<input type="checkbox"/> FRP Pressure Equipment
8.	DESCRIPTION OF WORK:	<input type="checkbox"/> Form R4 Supplementary Sheet is attached <input type="checkbox"/> FFSA Form (NB-403) is attached	
		<div>Removed glass lining. Repaired wasted areas by welding. Reapplied glass lining. Replaced (2) nameplate tabs PN4010542, (1) 24" collar PN4030949, (1) 31.5" collar PN4031610, (1) insulation ring PN4032174, (20) tabs PN:V171037A, and (2) insulation rings PN4031612. Spot radiography performed on the 31.5" and 24" collar circumferential weld seam.</div>	
	Hydro Pressure Test, if applied	Int:135	MAWP
			I:135/FV
9.	REPLACEMENT PARTS:	(Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report):	
	(name of part, item number, data report type or certificate of Compliance, mfg's. name and identifying stamp)	<div>N/A</div>	
10.	REMARKS:	<div>Thicknesses are adequate to maintain design pressure and temperature. Order Number: 4216697, Customer PO#:9900394506.</div>	



CERTIFICATE OF COMPLIANCE

I, Richard T. Sinsabaugh, certify that to the best of my knowledge and belief the statements in this report are correct and that all material, construction, and workmanship on this Repair conforms to the National Board Inspection Code. National Board "R" Certificate of Authorization No. 89 expires on December 31, 2018

Date 04/24/2017, Signed _____

Pfaudler, Inc.
(name of repair organization)

[Signature]
(authorized representative)

CERTIFICATE OF INSPECTION

I, Seth DeJohn, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency, where required, issued by the Jurisdiction of GA, NY and employed by The Hartford Steam Boiler Inspection and Insurance Company of Hartford, CT have inspected the work described in this report on April 24, 2017 and state that to the best of my knowledge and belief this work complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date April 24, 2017 Signed _____

(inspector)

Commissions _____

14032R, GA926, NY5420
(National Board and Jurisdiction No.)