

109220

No. #

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

(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

- 1. Manufactured and certified by **Tricor Metals Ohio Div., 3225 West Old Lincoln Way, Wooster, Ohio, 44691**  
(Name and address of Manufacturer)
- 2. Manufactured for **Bayer Cropscience LP, P.O. Box 98, Pittsburgh, Pennsylvania, 15230-0098**  
(Name and address of Purchaser)
- 3. Location of Installation **Bayer Cropscience LP, Route 25- Building 330, Institute, West Virginia, 25112**  
(Name and address)
- 4. Type **Vertical Tank** **V-472311** **N/A** **V-472311, Rev 2** **411** **2015**  
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)
- 5. ASME Code, Section VIII, Division 1 **2013/ N/A** **N/A** **N/A**  
(Edition and Addenda, if applicable (date)) (Code Case numbers) (Special service per UG-120(d))
- 6. Shell: **SA-240-316/316L** **3/8"** **1/8"** **23.25" (ID)** **4' 4.375"**  
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))

Body Flanges on Shells

No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
2	CL 150 RF,SO	N/A	N/A	N/A	N/A	SA-182-F316	Fig UW-21	Shell	(20)	1 1/4-8UN, SA-193-B7	2.50x1.25x.165	F436

- 7. Seams: **Type 1** **Spot** **85%** **N/A** **N/A** **Type 1** **Spot** **85%** **2**  
[Long. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] [Eff. %] [H.T. temp] (Time, hr) [Girth. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] [Eff. %] (No. of courses)

8. Heads: (a) Material **SA-240-316** (b) Material **SA-240-316**  
(Spec. no., grade) (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)	Top	.335"	1/8"	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b)	Bottom	.335"	1/8"	N/A	N/A	2:1	N/A	N/A	N/A	Concave

Body Flanges on Heads

	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

- 9. MAWP **79 psi** **15 psi** at max. temp. **450 °F** **450 °F**  
(Internal) (External) (Internal) (External)
- Min. design metal temp. **-20 °F** at **79 psi** Hydro, pneu., or comb. test pressure **HYDRO. at 111 psi**
- Proof test **N/A**

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet/Vent	2	3"	150# RF-WN	SA-312-TP316	SA-182-F316	.216"	1/8"	Inherent	UW-16.1(c)	Type 1	
Outlet/Level	3	1 1/2"	150# RF-WN	SA-312-TP316	SA-182-F316	.281"	1/8"	Inherent	UW-16.1(c)	Type 1	
Inspection	1	6"	150# RF-WN	SA-312-TP316	SA-182-F316	.280"	1/8"	Inherent	UW-16.1(c)	Type 1	Shell

- 11. Supports: Skirt **No** Lugs **N/A** Legs **(3)** Other **N/A** Attached **Shell, Welded**  
(Yes or no) (Number) (Number) (Describe) (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, Manufacturer's name and identifying stamp)

From section 6: Body flange dimensions are 24" ASME B16.5 flanges. All stainless steel used is dual certified to 316/316L.

CERTIFICATE OF SHOP/FIELD 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 BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 29750 expires July 24, 2018

Date 08/21/2015 Co. name Tricor Metals Ohio Div. Signed William Hall  
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Tricor Metals Ohio Div. at 3225 West Old Lincoln Way, Wooster, Ohio, 44691  
 I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and employed by HSB Global Standards, of Hartford, CT

have inspected the component described in this Manufacturer's Data Report on August 18, 2015, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her 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 08/24/2015 Signed Bruce North Commissions 9918A, OH100  
 (Authorized Inspector) [National Board (incl. endorsements)]