## FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT

A part of Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Boller and Pressure Vessel Code Rules, Section VIII, Division 1

1.	. Manufactured and certified by Atlas Industrial Manufacturing Co., 81 Somerset Place, Clifton, NJ 07102.																	
2.								(Name and address of Manufacturer) , LP, PO Box 98, Pittsburgh, PA 15230										
(Name and address of Purchaser 3. Location of installation Bayer CropScience LP, Route 23 - Bldg. 3										3ldg. 33								
4.	. Type: Condenser Shell						(Name and address) 12541 N/A								• •			
		[Des	cripilon of vesse 10722	el part (	art (Shell, two-piece head, tube bundle)						(Manufacturer's					•	RN) 2010	
		(Nati	ional Board num	ber)	D-21383-3 (Drawing Number)					Atlas Industrial Mfg. Co. (Drawing prepared by)						Year built)		
5.	ASME Code,	Secti	ion VIII, Div.	1			7 and	,			<del>-</del>	N/A					N/A	
Iten	ns 6-11 incl. to b	e con	ipleted for sir	ı <del>g/e-</del> 11		((Edition jackets-				els, si	Co hell of heat exchar	igers, <del>or c</del>	-	of multiche			vice per UG-	120(d)]
6,	Shell: (a) No	ımbe	er of course(	s): _			1	_			(b) Overall length :				17	'-7 1/	2"	
	Cour	se(s)	)		Materia	ıl	Thi	cknes	8		Long. Joint (Cat. A) Circum.					3 & C)	Heat Tr	eatment
No.	Diameter		Length		pec./Grade		Non			уре	Full, Spot, None		Type	Full, Spot		· Eff.	Temp.	Time
1	24" O.D.		17'-7 1/2"	+-	SA-106	-B	3/8"	1/8	3"   3	s	None	1.0	7	Nor	ne .70		N/A	N/A
	•			†-				╁		-	·	+	1	<del></del>				-
				$\prod$														
7.	Heads: (or Exp. Joint)	(a)	(Mai	erlal sp	N/A spec. number, grade or type) (H.T. — time and temp)					(b) N/A (Material spec. number, grade or type) (					(H.T. — time and temp)			
	Location (Top, Thickness			is	Radius Elliptical Cor				nical	Hemispherical	Pressure Category A							
	1 <del> </del>			Corr.	Crown	Knuck	kle Ratio		Apex	Angle	Radius	Diameter	Convex	nvex Concave Type		Full, Spot, None		e Eff.
(a) (b)							+				<u>                                     </u>	· ·	<u> </u>	-	<b></b>			-
		L							l		I	<del></del>	Ĺ	<u></u>	<u> </u>	<u> </u>		
ir re	movable, bolts	usea	(describe of	iner i	asternings)	-					(Material	Spec. numb	er, grade,	size number)	)		<del></del>	
8.	Type of jacket					I/A					Jacket closu	re		- (5)			-1-1	
	If bar, give dim	ensi	าทร								(Describe as ogee weld, bar, etc.)  If bolted, describe or sketch.							etch.
	-	§75	· . ——	<u>-</u> -	psi at m	nax. ter	mp. 575				°F. Min. design metal temp -20 °F at FV&75						psi	
٠.		rnal)	(Exle	•	- '		· –	(Intern	(Internal) (External)								<b></b> '	
10.	Impact test				UG-20 (1 dicate yes or n						<u>.</u>		at test t	emperatu	re of			— ℉
11.	Hydro. <del>, pneu.,</del>	er-co	mb. Test pre			o and the		19	прассте		Proof test				V/A			
ltems	s 12 and 13 to be	com	pleted for tub	e secti	ions.										-			
12.	Tubesheet		SA-24	0, 31	, 316 26,00"						2	1/8"	1/8" Welded					
			[Stationary (mat	erial sp			[Diamel	er, (subj	ecl to p	ress.)]	(Nomina	i (hickness)		(Corr. allow	(Corr. allow.) [Atlachment (welded or bolted)]			
		ec., no.))			(Diame			•	thickness)			(Corr. allow.) (Al						
13.	Tubes SA-249, TP316 (Material spec., no., grade or type)			5/8				۸ (A.W.)		363			Straight Type (straight) or U]					
tems	14-18 incl. to be	(Male ( <i>COIII</i>	erial spec., no., g <i>ipleted for <del>inti</del></i>	rade o r <i>er-eh</i>	rtype) <i>ambers o∫ je</i>	reketed	vessels	O.D) or chi	o.) annels	of he	(Nomina eat exchangers.	il thickness)		(Number)	· · · · · · · · · · · · · · · · · · ·	(11)	pe (straight)	or O <sub>1</sub>
14. 8	Shell: (a) No.	of c	ourse(s)			N	/A				(b) Overall I	ength						
	Course	Γ_	Material	<del></del> T	Thickness L			·Lo	ong. Joint (Cat. /	Circum. Joint (Cat. A			B & C)   Heat Trea		alment			
No.	Diameler	İ	· Length	Spe	c./Grade or	Туре	Nom. Corr.		Тур		Full, Spot, None	Eff.	Type Full, Spot,		<del></del>		Temp.	Time
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Form	U-2	(Back)

15.	15. Heads: (a) N/A (b)  (Material spec. number, grade or type)(H.T. – time and temp) (Material spec. number, grade or type)(H.T. – time and temp)																		
		- 47				11100		<del></del>					<del>,</del>		Pressure	ace or type)	Catego		<del></del> 1 .
ł	Location Botton			Min,	kness Corr.		Radius rown Kn		Illptical Ratio	Conical Apex Ang		mispherical Radius	Flat   Diameter		Concave	Type	Full, Spo		Eff.
(a)				- 191111.			TOWN AND	uckie .		, post ang			2,2,7,0,0	CONVOX	Concave	Type	Tun, ope	it, Ivone	
(b)	——-			<del>                                     </del>	<del> </del> -						+-		<del> </del> -	<del> </del>		<del>  -</del>			
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II IE	movable,	DOILS	use	u (uescribe	e utilei lasi	em	ngs/					- (	Viaterial spec	. number. ar	ade, size, r	umber)			
16.	MAWP	٨	I/A ernal)		(External)	ps	i at max.	temp.		_		°F. M	in. design	_		·-	at		psi
17.	impact te									•	(Externa	•		at test te	emperati	ire of			°F
	mpaor to	·			(Inc	licate	e yes or no ar	d the comp	onent(s	) impact test	ed)			at toot to	mporati				
	18. Hydro., pneu., or comb. Test pressure N/A Proof test  19. Nozzles, Inspection, and safety valve openings:																		
19.	Nozzles, I	nspe	ction	, and safe	ty valve op	enli	ngs:												
	Puroose	ļ	1.1.	Diameter	Flange	L		!	Materia	<u>al</u>		Nozzle T	hickness	Reinforcement		How Attached		Location	on
(Inlet,	Outlet, Drain	, etc.)	ivo.	or Size	Туре		Nozz	le	Ì	Flange		Norn.	Corr.	Mate	erial	Nozzle Fig. UW-16.1	Flange Fig. 2-4	(Insp. Op	en.)
	nlet / Outle	et	2	8"	CI 150 WN	S	A-106-B		SA-10	05		.322"	1/8"	SA-5	16-70	(C)	(6)		
-	ess. / Tem	_	4	<del></del>	H.C.		A-105					CI 3000	1/8"			(C)			
	/ent / Drair		8		H.C.		A-105			-		CI 3000	1/8"			(C)			
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20. i	dentificati	on or	Pari	t(s)								• .							
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21 5	Supports:	Skirt		No	Lugs		No	Legs	No	Others	, .	,	I/A		Attache		Shell, V	Volded	
21. 0	supports.	OKHE	-	(Yes or no)			lumber)		Number)		·		scribe)		Allacine	···	(Where a		
22 E	2omarke:	244	216	Conden	ser 'Shel	י דיוו	Coma Tvi			-							·	•	
44, 1	vomarka.					_							·						
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Date	MOA. (	13	201	Nam	ю <u> </u>	TI	LAS IND				CTU	RING CO	<u>).                                    </u>	Signed 🔟	an	5- // (/ C			- }
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