## 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 Code Rules, Section VIII, Division 1

	Manufactured and certified by		Y Toromon	Toromont Process Systems , 10121 Barlow Trail NE, Calgary, Alberta, Canada, 133 3C6 (1) 3 4 5 7 5 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
2.	Manufactured for		Toromor	nt Process Syst	ems , 101	21 Barlow bress of purcha	Trail NE	. Calq	ary, Albe	rta, Canada, <sup>-</sup>	ГЗЈ <u>3С</u> 6		
3.	Location of install	ation		Stock (Name and address)									
4.	. Type Vertical			80417401 R9944.213 OSV-480				0-03-CS-002 Rev0			2006		
•••			that make a						(Nati. Bd. No.)				
5. The chemical and physical properties of all parts meet the requirements of material specifications of the							the Aow	200	)4				
	CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1												
	to		7		<del></del>					Consist Consist	per UG-120(d	· · · · · · · · · · · · · · · · · · ·	
^	Ob all a	Addenda				Code Case Nos. 0.0625"		3' - 10 1/2"			8' - 6"		
о.	Shell: SA-516-70N Matl. (Spec. No., Grade			Nom. Thk. (in.			.) Diam. I.D		I.D. (ft. & in.	.) Len	ngth (overall) (ft. & in.)		
7.	Seams: Type 1 S		pot .85					/pe 1	Spot R.T. (Spot	.70 Eff.(%)	No. of		
	Long.(Welded, Dbl.,Sngl.		Butt) R.T. (Sp	oot or Full) Eff.(%)	H.T. Temp.	(°F) Time	(hr)	Girth,(Welded, Obl.,Sngl.,Lap,Butt)		or Full)	201.(70)	Courses	
8.	Heads: (a) Mati.		SA	SA-516-70N		(b) Matl.				SA-516-70N			
	·		(Spe	c. No., Grade)					(Spec. No., Grade)				
	Location (Top,	Minimum			Knuckle	Elliptical	Coni	1	Hemispheri Radius	cal Flat Diameter	Side to	Pressure Concave)	
(0)	Bottom, Ends)	Thickness			Radius	Ratio SE 2:1	Apex A	Angle	naulus	- Diameter		cave	
(a)	1 · · · · · · · · · · · · · · · · · · ·	0.6875				SE 2:1	+			_		cave	
(b)	Bottom	0.6875	' 0.0625'			3E 2.1					1		
	If removable, bolts	s used (des	cribe other fa	stenings)				C N	- o., Gr., Size.	No.1			
_	A 5 A 1 A 1 D	400		_	nei at.	max. temp.			_			°F.	
9.	(external) (internal) (external)												
	Min. design metal	temp.	-20	Fat400	Psi. I	Hydro., pne	u., or con	nb. test	pressure	5:	20	psi.	
	•												
10.	Nozzles, inspectio	n and safet	ty valve openi	ngs:									
	Purpose N		Diam.	Type	Ma	tl	Nom.		rcement	How Attached	Location		
<u> </u>	hlet, Outlet, Drain)		or Size	Type	Triati.		Thk.	^	/latl.				
					A TT A C	NIED	U4	E.	)DM				
				SEE SEE	ATTAC	HED	<u>U4</u>		DRM				
								<del> </del>	-				
							····	<u> </u>					
1.	Supports: Skirt	No	Lugs	3 Legs	Ot	her		A1	ttached	Shell	& Welded	<u> </u>	
	Remarks: Manufac	(Yes or no)	1)	No.)	(No.)	mad by Car	Describe)	d Inene	ctore have	www. been furnished e	ire and now! I for the fol	lowing	
			tial Data Repo	rts properly identi	med and sig	inea by Cor	IIIIII	u mopo	0.010 1.01			_	
į	items of the report	:	····		(Name of part,	item number,	Mfgr's. name	and iden	tifying stamp	)			
	Item: V-2	Vessel T	ype: Oil Se		Construct	ion Drawi	ng: 8041	7-401	Rev 1				
-	Volume: 120 Cu			ct Testing: No,	per UG-2	20(f)							
_													
Г				CERTIFICA	TE OF SHO	P/FIELD CO	MPLIAN	CE					
١٨/٤	certify that the st	atements r	nade in this re	eport are correct	and that all	details of d	esign, ma	terial, c	onstructio	n, and workma	nship of this	s vessel	
COL	nform to the ASM	ME Code	for Pressure	Vessels, Section	VIII, Divis	sion 1. "U'	' Certifica	te of	Authorizat	ion No3	<u>3,658                                    </u>		
		er 26, 200							-				
Da	te <u>23 Nous</u>	ه مکاد	o. name	Toro	mont Proces	s Systems		s	igned	150			
					(Manufa	cturer)				(Re	presentative)		
					CATE OF SI	HOP/FIELD	INSPECT		0-1	m. Albarta C	onada		
Ve	ssel constructed by	/		Toromont Proces				at _		ry, Alberta, C		inco.of	
I, t	he undersigned, ho Alberta	lding a val	id commission	issued by the Na and o	ational Board employed b	d of Boiler a y <u>AB</u>	and Pressi SA	ure Ves	sel inspec	tors and/or the	State or Pro		
has	e inspected the co	mponent c	lescribed in th	is Manufacturer's	Data Repo	rt on	10	w 2	7/00	<u> </u>	_ and state	-	
+.	the best of my kno	wiedne an	d helief the M	Manufacturer has	constructed	this pressu	ıre vessel	in acco	ordance w	ith ASME Code	Section VI	11,	
D:	isian 1 Dy signin	a thic cor	tificata naith	er the Inspector	nor his er	nnlover ma	kes anv w	arranty	, express	ea or impilea, i	roncenning	LI IC	
J	ssure vessel descr	ibed in this	Manufacture	er's Data Report	. Furtherm	ore, neither	the inspe	ctor no	r nis empi	oyer shall be lia	ible in any n	ianner for	
	personal injury or	property d	lamage or a lo	ss of any kind ari	ising from o	r connected	d with this mmission	sinspeg	1001.	-			
Da	te <u>&amp; / 1/2/</u>	<b>5</b> \$	igned	(Authorized In	Sour -		mmssion	· CESA	[Nat'l Board	(incl. endorsements	), State, Prov.	and No.]	
<u> </u>				(Addition 20 In	apector/								

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

3. Location of Installation  4. Type: Vertical (Hortz., vert., or sphere)  R9944.213 (CRN)  Data Report Item Number Curlat Drain)  10 M1 Manway 1  10 N1 Inlet 1  10 N2 Outlet 1  10 N3 Oil Outlet 1  10 N4 PSV 1  10 C1 Drain 1  10 C2A LG 1  10 C2B LG 1  10 C3 Oil Fill 1  10 C4 LSLL 1  10 C5 Oil Return 1  10 C6 TE 1  10 C7 LSHH (Opt) 1  10 C8 Oil Pump Return 1	Diam. or Siza 14" x 18" 8"	O (Tank, 2	(Name and address of purchaser) Stock  Il Separator separator, heat exh., etc.)  3-CS-002 Rev0 Remarks	_ L*1. Bd. No.)	804174 (Mfg's. senia	401										
R9944.213 (CRN)   Purpose (Inlet, No Item Number   Outlet Drain)   10 M1   Manway   1	Size 14" x 18" 8"	(Tank, s OSV-480-03 (Drav	eparator, heat exh., etc.) 3-CS-002 Rev0 wing No.) (Na	_ t'l. Bd. No.)		1 No.) 2006										
Data Report Item Number         Purpose (Inlet, Outlet Drain)         No           10 M1         Manway         1           10 N2         Outlet         1           10 N3         Oil Outlet         1           10 N4         PSV         1           10 C1         Drain         1           10 C2A         LG         1           10 C3         Oil Fill         1           10 C4         LSLL         1           10 C5         Oil Return         1           10 C6         TE         1           10 C7         LSHH (Opt)         1           10 C8         Oil Pump Return         1	Size 14" x 18" 8"			_ £'l. Bd. No.)												
Item Number         Outlet Drain           10 M1         Manway         1           10 N1         Inlet         1           10 N2         Outlet         1           10 N3         Oil Outlet         1           10 N4         PSV         1           10 C1         Drain         1           10 C2A         LG         1           10 C3         Oil Fill         1           10 C4         LSLL         1           10 C5         Oil Return         1           10 C6         TE         1           10 C7         LSHH (Opt)         1           10 C8         Oil Pump Return         1	Size 14" x 18" 8"	Туре	Remarks													
Item Number         Outlet Drain           10 M1         Manway         1           10 N1         Inlet         1           10 N2         Outlet         1           10 N3         Oil Outlet         1           10 N4         PSV         1           10 C1         Drain         1           10 C2A         LG         1           10 C3         Oil Fill         1           10 C4         LSLL         1           10 C5         Oil Return         1           10 C6         TE         1           10 C7         LSHH (Opt)         1           10 C8         Oil Pump Return         1	Size 14" x 18" 8"	Туре		Remarks												
10 M1         Manway         1           10 N1         Inlet         1           10 N2         Outlet         1           10 N3         Oil Outlet         1           10 N4         PSV         1           10 C1         Drain         1           10 C2A         LG         1           10 C2B         LG         1           10 C3         Oil Fill         1           10 C4         LSLL         1           10 C5         Oil Return         1           10 C6         TE         1           10 C7         LSHH (Opt)         1           10 C8         Oil Pump Return         1	14" x 18" 8"		Matl.	Nom. Thk	Reinforcement	How Attached	Location									
10 N1 Inlet 1 10 N2 Outlet 1 10 N3 Oil Outlet 1 10 N4 PSV 1 10 C1 Drain 1 10 C2A LG 1 10 C3 Oil Fill 1 10 C4 LSLL 1 10 C5 Oil Return 1 10 C6 TE 1 10 C8 Oil Pump Return 1	8"			1.00"	-	UW16.1(c)	Head									
10 N2 Outlet 1 10 N3 Oil Outlet 1 10 N4 PSV 1 10 C1 Drain 1 10 C2A LG 1 10 C3 Oil Fill 1 10 C4 LSLL 1 10 C5 Oil Return 1 10 C7 LSHH (Opt) 1 10 C8 Oil Pump Return 1	<del> </del>			0.593"	-	UW16.1(c)	Sheli									
10 N3 Oil Outlet 1 10 N4 PSV 1 10 C1 Drain 1 10 C2A LG 1 10 C2B LG 1 10 C3 Oil Fill 1 10 C4 LSLL 1 10 C5 Oil Return 1 10 C6 TE 1 10 C7 LSHH (Opt) 1 10 C8 Oil Pump Return 1				0.593"	-	UW16.1(c)	Shell									
10 N4         PSV         1           10 C1         Drain         1           10 C2A         LG         1           10 C2B         LG         1           10 C3         Oil Fill         1           10 C4         LSLL         1           10 C5         Oil Return         1           10 C6         TE         1           10 C7         LSHH (Opt)         1           10 C8         Oil Pump Return         1			SA-105N / SA-234-WPB / SA-106-B	0.300"	<del></del>	UW16.1(c)	Head									
10 C1         Drain         1           10 C2A         LG         1           10 C2B         LG         1           10 C3         Oil Fill         1           10 C4         LSLL         1           10 C5         Oil Return         1           10 C6         TE         1           10 C7         LSHH (Opt)         1           10 C8         Oil Pump Return         1	3"	CL 300 RFWN	SA-105N / SA-234-WPB / SA-106-B	0.437"	-	UW16.1(c)	Shell									
10 C2A         LG         1           10 C2B         LG         1           10 C3         Oil Fill         1           10 C4         LSLL         1           10 C5         Oil Return         1           10 C6         TE         1           10 C7         LSHH (Opt)         1           10 C8         Oil Pump Return         1	1"	Cplg	SA-105N	CL6000	-	UW16.1(c)	Head									
10 C2B         LG         1           10 C3         Oil Fill         1           10 C4         LSLL         1           10 C5         Oil Return         1           10 C6         TE         1           10 C7         LSHH (Opt)         1           10 C8         Oil Pump Return         1		Cplg	SA-105N	CL6000	-	UW16.1(c)	Shell									
10 C3 Oil Fill 1 10 C4 LSLL 1 10 C5 Oil Return 1 10 C6 TE 1 10 C7 LSHH (Opt) 1 10 C8 Oil Pump Return 1	3/4"	Cplg	SA-105N	CL6000	_	UW16.1(c)	Head									
10 C4 LSLL 1 10 C5 Oil Return 1 10 C6 TE 1 10 C7 LSHH (Opt) 1 10 C8 Oil Pump Return 1	3/4"		SA-105N	CL6000	_	UW16.1(c)	Shell									
10 C5 Oil Return 1 10 C6 TE 1 10 C7 LSHH (Opt) 1 10 C8 Oil Pump Return 1	1"	Cplg Cplg	SA-105N			UW16.1(c)	Shell									
10 C6 TE 1 10 C7 LSHH (Opt) 1 10 C8 Oil Pump Return 1				CL6000	<u> </u>	UW16.1(c)	Shell									
10 C7 LSHH (Opt) 1 10 C8 Oil Pump Return 1	3/4"	Cplg SA-105N		CL6000		UW16.1(c)	Shell									
0 C8 Oil Pump Return 1			SA-105N	CL6000		UW16.1(c)	Shell									
	1 1/2"	Cplg	SA-105N	CL6000		UW16.1(c)	Shell									
	1 1/2"	Cpig	SA-105N	CL6000	-		Shell									
10 C9 PI/PDI (Opt.) 1	3/4"	Cplg	SA-105N	CL6000	-	UW16.1(c)	ļ									
10 C10 TI (Opt.) 1	3/4"	Cplg	SA-105N	CL6000	-	UW16.1(c)	Shell									
10 C11 PDI (Opt.) 1	3/4"	Cplg	SA-105N	CL6000	•	UW16.1(c)	Shell									
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ertificate of Authorization: Type	"U"	No.	33,658 Expires Nov	ember 26,	2008											
pate 23NOCO Name	,	Toromont Pro		gned	Representa	tive)										