1000007072.

## 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. Manufac	ctured and certifie	d by:			FILTER SOLUTION				gton, Ontario, Canad	a L7T 2X9		
2. Manufac	ctured for:		ESG F	ILTRATION #1	(Name and address of Menufacturer)  6025 12th St. SE, Caigary, Alberta, Canada, T2H 2K1  (Name and address of Purchaser)							
3. Location	of installation:						Unknown					
4. Type: Vertical Fifter (Horizontal or vertical, tank)			14967M (Manufacturer's serial number)		W2404,3 (CRN)	(Name and add		14967 FA (Drawing nu			umber)	2014 (Year built)
5. The che	mical and physical. The design, cor	al properties of estruction, and	all parts me workmanshi	et the requirem p conform to A	ents of material sp SME Rules, Section	pecifications of the on VIII, Division 1.	ASME BO	ILER AND	PRESSURE VESSEL	10 Edition (Year)		
to 2011a Addenda						None						
		dends, if applicable	e (date)]	4.0	Nor	(Code Case numbe	36.5°			26"		
6. Shell: SA 240 316 (Material spec. number,			(Nominal thickness		(Corr. at		(Inner diameter)			[Length (overall)]		
	Name of the Control o		SHEEP STOCKER				Tono 1			Full 100 1		1
7. Seams:	Type 1		Full 10			\ (Time)	Type 1  (Time, hr)  Girth (welded dol angl.,			[RT (apot or full)]	[Eff. (%)]	(No of courses)
	[Long (welded, dbl. sngl., lap, butt)]		[R.T (spot or full)] [E#. (%)		(H. I. HIMP	(time,	frame, my					
8. Heads:	(a) Material			240 316		(b) Ma	terial	-		A 240 316 pec no., grade)		
			(Spec. no., grade)		T 20 - 100	Control Cities and		ioni	Hemispherical	Side to Pressure		o Pressure
	ocation (Top, ottom, Ends)	Minimum Thickness	Corrosi	The second secon	Knuckle Radius	Elliptical Ratio	Apex	nical Angle	The state of the s	Flat Diameter	VV001.71 TUTO	or Concave)
(a)	Top	0.947"	Allowari	- Hadius	riadios	2:1						oncave
(b)	Bottom	0.947"				2:1			-		C	oncave
If removab	ole, balts used (de	scribe other fa	stenings)			SA 193 B7 / S			STUD/NUT, (8) Red	quired		
2 MANUE 4440 and						(Material, spec_number, grade at max temp. 100 <sup>O</sup> F						
9. MAWP 1440 psi (Internal)				(Externa		at max temp.		(Internal)		(External)		
Min. design	n metal temp.	-50 <sup>1</sup>	°F	at	1440 psi	_ Hydro., pr	eu., or com	1.4.14.14.14		(Hydro)	1872 psig	
Proof test	No.	one I safety valve o	ppenings:							- 1 0m	et Dotaile I	Location (Insp.
C110000000	ourpose	1000	Diameter	446	10121	terial	Nozzle T Nom.	hickness Corr.	Reinforcement Mater	Nozzle	ent Details Flange	Open.)
	tlet, Drain, etc.)	No.	or Size	CL.600 LWN	Nozzle	Flange SA 182F 316	1"	COII.		WLD	INTG'L	
	nlet (N1) utlet (N2)	1	4"	CL.600 LWN			1"	-	1	WLD	INTG'L	
	ent(N3)	1	1"	CPLG.	SA 182F 316		6000#			WLD	-	-
Clear	n Drain(N4)	1	2"	CL.600 WN		SA 182F 316	0.154"	F.		WLD	INTG'L	-
	Drain(N5)	1	1/2"	CPLG.	SA 182F 316		6000#		-	WLD		
Gaug	e Port(N6/7)	2	1/2"	CPLG.	SA 182F 316	-	6000#		-	WLD		0.3500
11. Support	ks: Manufacturer	No (es or no) s Partial Data	Lugs	(Number)	Legs 4 (Number) and signed by Com	Others	(Des	one cribe) been furnist	Attached		o shell & b Where and ho	ottom head
			lmp	act test exem	(Name of p pt per UHA-51 &	ert, item number, Mar UCS-66 / Built						
We confo confo expir Date	orm to the ASMI es May, 3	E BOILER A rd 2014	de in this rep ND PRESS Co. N.	port are correct URE VESSEI ame	Filter Solu	ails of design, m VIII, Division I itions Inc.	aterial, cor . "U" Cert	nstruction ificate of a	, and workmanship o	f this vessel	3508	7
l, the		olding a valid Ontario	commissio	Filter Solution issued by th	RTIFICATE Ons Inc c National Board and employed er's Data Report	at I of Boiler and P by		ssel Inspe	Burlington, One ectors and/or the State TSSA of Ontario	tario e or Province	of and state	that.
to the VESS conce	best of my know SEL CODE, Sec erning the pressu	wledge and b tion VIII, Div are vessel des	elief, the M vision 1. By scribed in th	anufacturer has signing this c is Manufactur	as constructed the	is pressure vesse the inspector n Furthermore, n	or his/her of either the i	lance with employer inspector i	ASME BOILER AN makes any warranty, nor his/her employer	expressed or	RE implied,	
Date		4 Join			S	Z Artion	_	Commiss		34)4A	Province and emetibed	