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

1.	Manufactured and certified by						EXCHANGER INDUSTRIES LIMITED 5505 - 52 Street S.E., Calgary, AB T2C 2W8											
2. Manufactured for							(Name and address of manufacturer) Hatch Ltd., 840 - 7 th Avenue, S.W., Calgary, AB T2P 3G2 (Name and address of purchaser)											
3.	Location of installation													LSD# 7-18-93-12 W4M				
4.							11-5029 V8509.2				11-5029	Rev.				2012		
						, ,						ng No.)		(Nat'i Bd. No.)		(Year built)		
5.	The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOI VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1												ME BOILER ANI	2010				
	to			_										Year -				
		Addenda (Date)					Code Case Nos							Special	` '			
6.	Shell:	***************************************		A516-70NI Spec. No., Gr		As Below Nom. Thk. (in.)				Oorr. Allo			N/A Diam. I.D. (m			As Below h (overall) (mm)		
7.	Seams	ms: Mig root & Corner welds Long. (Welded, Dbl., R. Sngl., Lap, Butt)				R.T. (Spo	- 1.0 Spot or Full) (Eff., %)			21°C Temp. (°C)		r. (hr)	Girth (Weld	Girth (Welded, Dbl., Sngl., Lap, Butt)		1.0 2 (Eff.%) No. of Courses		
8.	Heads:	(a) Mat	l				(b) Mat'l.							(Spec. No., Grade)				
	10	cation (on (Top, Minimum Co			rrosion	Crown		Elliptic		eal Conical		l Hemispl	horical	Flat	Side to Pressure		
		ottom, Er		Thickness		owance	Radius	Knuckli	Knuckle Radius			Apex Angle			Diameter	(Convex or Concave)		
(a) (b)												-						
lf	remova	able, bolt	s used (d	escribe other t	astening	gs)					(Mattl S	nec No	, Gr., Size, No.)					
9. N	//AW P		2300 (internal)				103 (external)		kPa at	kPa at max, temp.					149 (extern	°C.		
	Min. de	esign me	tal temp.	•	-45		, ,	, ,		ydro., pneu.,	or comb. te	est press	ure	29	990	, kpa.		
10.			tion and	safety valve op							Nozzie		T					
Purpose (Inlet, Outlet,		utlet,	No.	or Size		Type	Mai Nozzle					s (mm) Cor.	Reinforcement Mat'l.	How A	Attached	Location		
Drain) Inlet			1	3" Cl.300		RFWN	SA333-6		Flange SA350-LF2 CI.1		Nom.	3	None	UW16.1a	Flange Type 1	Top Front		
Outlet		-	1	3" CI.300		RFWN		SA333-6		SA350-LF2 CI.1		3	None	UW16.1a	Type 1	Bottom Front		
Vents Drains			2	1" Cl.6000 1" Cl.6000		CPLG CPLG		SA350-LF2 CI.1 SA350-LF2 CI.1				3	None None	UW16.1a		Top Front/Rear Bott. Front/Rear		
11.	Suppo	rts: Skirt	: Skirt No Lugs (Yes or No)		Lugs	N/A (No.)			N/A Ot (No.)		her	Sideframes (Describe)				Bolted nere and how)		
12.	12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following												llowing items of					
	tne r	eport:						(Name of pa	rt, item num	ber, Mfgr's.	name an	d identifying stamp	o)				
	P.S.V.:		*	**	Impa	act Testing:		es, required on plate @ -45°C. Fittings & flanges exempt per UCS-66(g). Tubes exempt per UCS-										
١	T/S & F Vrappe	/S Thk.: 25.4mm - Thk.: 12.7mm					End Plate Thk.: 12.7mm Box Sizes: 22.7mm Box Sizes: 32.7mm Box Sizes: 32.7mm Box Sizes: 32.7mm Box Sizes: 32.7mm							nm x 240m	m x 2114m	ım		
	scriptio				nanize	r Condense			pacity:	.09 cu	.m. [Box Sizes	s:					
	Item No	-	10	0-HX-110								SA 179	(122 pcs.)					
	Spo	t UT					Construction Construction					talled	by owners.					
										P/FIELD								
													I, construction			nis vessel		
	COI	norm t	5,98	_	ires	PRESSUR March		, 20 , 20	14	viii, bivis	ion 1. "U	Certif	icate of Autho	rization Num	nber	1 1		
	Dat	te	JUL	2 7 201		o. name	Exchang				Manufac	4	Signe	d	1 and	land		
							CERTI	IFICATE	OF SHO	P / FIELD	Manufac INSPEC				(керг	esentative)		
			nstructe		· · · · · · · · · · · · · · · · · · ·	EXCHANG					at			ary, Alberta		•		
	I, th	ne und	ersigne	d, holding a		commission		the Nati mployed		rd of Boil	er and Pr	ressure	Vessel Inspe ABSA	ctors and/or	the State o	r Province of		
				ne compone	ent des	scribed in thi	s Manufac	cturer's D	Data Repo		J. W		20 12		that, to the	*		
		_											SME BOILER			•		
													any warranty, or nor his/her	•		•		
			r any pe	ersonal inju				,	1				with this inspe	ction.				
	Dat	е	JUL	2 7 2012		Signed	- HA	uthorized I	nspector)	ちし	Cor	nmissio			9 NB 129	900 A e, Prov., and No.]		