FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1



~~~\Vai	Manufactured and certified by			EXCHANGER INDUSTRIES (A Division of Premetalco Inc.) 5505 - 52 Street S.E., Calgary, AB T2A 6A8  (Name and address of Manufacturer)														
	ufactured for				TIT	AN PR	OJECT	S LTD., 8th	FLR. 7	703 - 6 AVE S.	W. CA	LGAF	RY AB	T2P0T9				,
1								•		idress of Purchase								
3. Loc	ation of installat	ion				~	M	URPHY OIL		TUS LAKE , S		ATCH	EWAN					
<b>4.</b> Typ	,	ноі	RIZONT	(Mario and addisso)														
•			vert., or s	phere)	-		(Tani	c,separator, jkt.	vessel, l	neat exh.,etc.)				(Mfg's serial No.)				
	A-357		····· ,				691A/B		N/A				1998					
E 401	CR) ME Code, Section	•			1995	(Draw) - 1996	ing No.)		(Nat'l. Bd No. <b>N/A</b>				lo.) (Year Built) <b>N/A</b>					
a. Wol	ie Code, Secuc	in viii, Div 1		1	Edition and A		date)	<del>~~ </del>		Code Case N	ło.			Spec		e per UG-12	0(d)	
tems 6	-11 to be com	pleted for	single v	vali vesse	i, jacket of	jackete	d vesse	i, shells of h	eat exc	hanger, or chan	nber of	multi-	chambe	red vess	el.			
3. She	I (a) No. of Co	urse(s):			2		(t	o) Overall length	n (ft & in.)	):	19	' 8 9/1	16"					
	· · · · · · · · · · · · · · · · · · ·		<del></del>				т		Т							1		
Course(s)				Material				Thickness		Long. Joint (Cat.A)		Circ		cum. Joint (Cat. A,B,		Heat 1	Treatme	ent
No.				Spec./Grade or Type N			Nom.	Nom. Corr.	Type Full,Spot,None		Eff. 1	Туре	ype Full,Spot,None		Eff.	Temp.	Ti	me
1	2'10 1/4" 10'x 0"			SA-516-70N			.625"	1/8"	1	SPOT	.85	1	SPOT		.85	N/A N/A	N/A N/A	VA
1	2'10 1/4" 9'x8 9/16" SA-516				-516-70N	i-70N		1/8"					SI	SPOT				
, Lla						N//A			<u> </u>	<u> </u>	L	<u></u>	<u> </u>		40 701	L	<u> </u>	
'. He	ads: (a)			(Mat'l Sr	oec. No. Grad	N/A le or Type	) H.T Tim	e & Temp		(b) Mat'l		(Mei	fl Snec 1		16-70N or Type) H	T Time & Te	mp	
	Location (Top	) Thic	kness	(Mat'l Spec. No. Grade or Type) H.T Time & Temp.  Radius Elliptical Conicel				1		6	lat	It'l Spec. No. Grade or Type) F			Catagory A			
			1	<del> </del>	1	•		Conical	H	emishperical			<del></del>	T				T
(a)	Bottom, Ends	i) Min.	Corr.	Crown	Knuckle	K8	atio	Apex Angle	<del> </del>	Radius	Diai	neter	Convex	Concave	Туре	Full,Spot,	None	Eff.
(b)	END	.588"	1/8"		<b>†</b>	2	 :1		<u> </u>					x				
	novable, bolts u		<del>-1-,, -</del> -	etonom)				I	1	N/	/A		<u> </u>	J		1		L
10	11014010, 00103 0	isou (dosoni	70 Oll 101 10	3(61)613)														
		1/9 4								(Mat'l Spec. No.	Grade,	size No.)	)					
в. Тур	of Jacket	**************************************			N/A				Ja	(Mat'l Spec. No.	Grade,	size No.)			i/A			
n.		1						N/Δ	_ Ja		Grade,	size No.)		nibe as Oge	e & weld,			
be	r, give dimensio				N/A	429	2	N/A	***	cket Closure				ribe as Oge	ee & weld, if bolt	ed, describe		
be	r, give dimensio	ens						-	Ja	cket Closure					e & weld,	ed, describe	or sket	tch. psi.
be D. M.A	r, give dimensio	48 mal)	•	nal)	N/A	(intern	al)	(external)		cket Closure	metal to	этр.	(Desc	ribe as Oge	ee & weld, if bolt °F a	ed, describe	48	psi.
be D. M.A	r, give dimensio	48 mal)	•	nal)	N/A	(intern	al) <b>(f). PLA</b> T	(external)	PER UK	cket Closure  F Min. design	metal to	этр.	(Desc	ribe as Oge	ee & weld, if bolt °F a	ed, describe	48	psi.
). M.A	r, give dimensio	48 mai) SHELLS	IDE & TI	nal)	N/A	(intern	al) [ <b>f). PLA</b> ]	(external)	PER UK	cket Closure  F Min. design  CS-66(a). REQ'E	metal to	этр.	(Desc	32	ee & weld, if bolt °F a	ed, describe	48	psi.
). M.A 0. Imp 1. Hyd tems 1	r, give dimensic W.P.: 3-4 (inte	48 mai) SHELLS .test press. p	DE & TO	nal) UBES EXI ons.	N/A	(intem 2 UG-20( 522 P	al) (f). PLAT	(external)	PER UK	F Min. design CS-66(a). REQ'E he component(s) to Proof test	metal to	emp. CHANN	(Desc	32	ee & weld, if bolt °F a	ed, describe	48 'L ON	psi.
. M.A 0. Imp 1. Hyd tems 1	r, give dimensic W.P.: 3-4 (inte	######################################	DE & TO	nai) UBES EXI ons. &IT	N/A t max. temp.	(intern 2 UG-20( 522 P	al) (f). PLAT PSI 1/8"	(external) FE EXEMPT (Indicate yes or	PER UK no and t	F Min. design CS-66(a). REQ'E he component(s) to Proof test	metal to	emp. C <b>HANN</b> 3/16"	(Desc	32	ee & weld, if bolt *F a & NOZ S	ed, describe	148 'L ON	psi.
). M.A 0. Imp 1. Hyd tems 1	r, give dimensic W.P.: 3-4 (inte	######################################	DE & TO	nai) UBES EXI ons. &IT	N/A t max. temp.	(intem 2 UG-20( 522 P	al) (f). PLAT PSI 1/8"	(external) FE EXEMPT (Indicate yes or	PER UK	F Min. design CS-66(a). REQ'E he component(s) to Proof test	metal to	emp. CHANN	(Desc	32	ee & weld, if bolt *F a & NOZ S	ed, describe	148 'L ON	psi.
D. M.A O. Impo 1. Hyd tems 1 2. Tubo	r, give dimensic W.P.: 3-4 (inte	test press. properties tu SA-Stationary	DE & TO	nai) UBES EXI DONS. RIT ec. No.)	N/A t max. temp.	(intern 2 UG-20( 522 P 35 a., in. (sub	al) (f). PLAT PSI 1/8"	(external) FE EXEMPT (Indicate yes or	PER UK no and t	F Min. design CS-66(a). REQ'E he component(s) te Proof test 14" hk. in.	metal to	3/16" T. Allow	(Desc	32  MA FLG 8	ee & weld, if bolt *F a *NOZ S	ed, describe	'L ON	psi.
be. M.A 0. Imp 1. Hyd tems 1 2. Tube	r, give dimension W.P.: 34 (interact test 2-13 to be consistence): Floating (Mat'l S	sHELLS test press. properties tu SA- Stationary	oressbe section 266-4N8 y (Matil Sp	ons. AIT ec. No.) Dia., in	N/A t max. temp.  EMPT PER	(interm 2 UG-20( 522 P 35 3., in. (subpress.)	eal)  (f). PLAT  PSI  1/8"  Diject to pr	(external)  E EXEMPT (Indicate yes or	PER UK	F Min. design CS-66(a). REQ'E he component(s) te Proof test 14" hk. in.	metal to	3/16" n. Allow	(Desc	32  MA FLG 8	ee & weld, if bolt *F a *NOZ S	ed, describe  It 3  TUB MAT  BOLTE  ment (welde	'L ON	psi.
. M.A 0. Imp. 1. Hyd tems 1 2. Tube	r, give dimension W.P.: 34 (interest co.pneu.or comb 2-13 to be consistent: Floating (Mat'l Sistent:	sHELLS .test press. propleted tu SA- Stationary pec. No.)	press	Dia., in	N/A t max. temp.  EMPT PER  Dia  i. (subject to p	(interm to UG-20() 522 P 35 a., in. (subsection of State	nai)  (f). PLAT  PSI  1/8"  pject to pr	(external)  TE EXEMPT (Indicate yes or	PER UX no and t  9 1/ Nom. t	F Min. design CS-66(a). REQ'E the component(s) te Proof test  14" hk. in.  Cor  BWG M/W hk., in. or gauge	metal to	3/16" rr. Allow	(Desc	32  MA FLG 8	ee & weld, if bolt *F a  *NOZ S  *I/A  Attach  ttachment	BOLTE ment (welded or b	L ON	psi.
be. M.A  O. Importante  1. Hyd  terms 1  2. Tube  3. Tube	r, give dimension W.P.: 34 (interpretation of the content of the c	stest press. properties of the stationary st	press	Dia., in	N/A t max. temp.  EMPT PER  Dia t. (subject to per of jacks	(interm to UG-20() 522 P 35 a., in. (subsection of State	nai)  (f). PLAT  PSI  1/8"  pject to pr	(external)  TE EXEMPT (Indicate yes or	PER UX no and t  9 1/ Nom. t	F Min. design CS-66(a). REQ'E the component(s) te Proof test  14" hk. in.  Cor  BWG M/W hk., in. or gauge	metal to	3/16" rr. Allow	(Desc	32  1A FLG 8	ee & weld, if bolt *F a  *NOZ S  *I/A  Attach  ttachment	BOLTE ment (welded or b	L ON	psi.
D. M.A.  10. Important description of the second se	r, give dimension W.P.: 34 (interest co.pneu.or comb 2-13 to be consistent: Floating (Mat'l Sistent:	stest press. properties of the stationary st	press	Dia., in	N/A t max. temp.  EMPT PER  Dia  i. (subject to p	(interm to UG-20() 522 P 35 a., in. (subsection of State	1/8"  1/8"  2SI  1/8"  Dject to pro-  /4"  D, in.	(external)  TE EXEMPT (Indicate yes or	PER UK no and t  9 1/ Nom. t  12 Nom. t	F Min. design CS-66(a). REQ'E he component(s) te Proof test  A" hk, in.  Cor BWG M/W hk,, in. or gauge changers.	metal to	3/16" rr. Allow	(Desc	32  MA FLG 8	ee & weld, if bolt *F a  *NOZ S  *I/A  Attach  ttachment	BOLTE ment (welded or b	L ON	psi.
). M.A 10. Impa 11. Hyd 12. Tubo 13. Tubo	r, give dimension W.P.: 34 (interpretation of Country o	test press. properties of the stationary sta	press	Dia., in	N/A t max. temp.  EMPT PER  Dia  . (subject to per of jacket)	(interm to UG-20() 522 P 35 a., in. (subsection of State	1/8"  1/8"  Diject to pro-  //4"  Di, in.	(external)  TE EXEMPT (Indicate yes or ess.)  Nom. thk. ir  channels of I	PER UK no and t  9 1/ Nom. t  12 Nom. t  heat exc. (ft & in.)	F Min. design CS-66(a). REQ'E he component(s) te Proof test  A" hk. in.  Cor  BWG M/W hk., in. or gauge changers.	metal to	3/16" n. Allow	EL TEN	32 1A FLG 8 N	ee & weld, if bolt F a  NOZ S  I/A  Attach  ttachment	BOLTE ment (welder (welded or but)	D oolted)	psi.
). M.A. (10. Imp.) (11. Hyd) (12. Tub) (13. Tub) (14. She	r, give dimension W.P.: 34 (interpretation of combosine) 2-13 to be consistent:  Floating (Mat'l Sies: 4-17 Incl. to be Course()	shells  test press. properties to SA- Stationary  pec. No.)  Mat'l Spec.  te complete trice(s):	DE & TU press	Dia., in	N/A t max. temp.  EMPT PER  Dia t. (subject to per of jacket  1	(interm to UG-20) (interm to UG-20) (interm to UG-20) (intermediate intermediate in	1/8" Diject to pro- /4" Do, in. sels or (b)	(external) TE EXEMPT (Indicate yes or ess.) Nom. thk. in channels of it) Overall length	PER UK no and t  9 1/ Nom. t  Nom. t theat exc	F Min. design CS-66(a). REQ'E he component(s) te Proof test  A" hk. in.  Cor BWG M/W hk., in. or gauge changers.	Cc - T. Allow	3/16" m. Allow ., in. 3:  Num	EL TEN	32  1A FLG 8  N  At	ee & weld, if bolt "F a  k NOZ S  L/A  Attach  ttachment  T	BOLTE ment (welde  (welded or b  ype (Straight	D d or bol or U)	psi.
be. M.A. O. Imp. 1. Hyd tems 1 2. Tubo tems 3. Tubo No.	r, give dimension W.P.: 34 (interest	stest press. properties of the complete true of the complete true of the complete co	DE & TU press	Dia., in	N/A t max. temp.  EMPT PER  Dia t. (subject to per of jacket)  Material  Grade or Type	(interm to UG-20) (interm to UG-20) (interm to UG-20) (intermediate intermediate in	1/8"  1/8"  oject to pro-  /4"  O., in.  seels or  (b)  Nom.	(external)  IE EXEMPT (Indicate yes or ess.)  Nom. thk. ir  channels of I ) Overall length nickness Corr.	PER UK no and t  9 1/ Nom. t  Nom. t  theat ex. (ft & in.)	F Min. design CS-66(a). REQ'E the component(s) te Proof test  14" hk. in.  Cor BWG M/W hk., in. or gauge changers.  cong. Joint (Cat.A) Full, Spot, None	metal to O ON C Cc - T. Allow	3/16" rr. Allow ., in. 3: Nun Circ	EL TEN ., in. 38 nber cum. Join	32 1A FLG 8 N At 1' - 4"	ee & weld, if bolt F a  NOZ S  I/A  Attach  Attachment  T  & C)  Eff.	BOLTE ment (welder (welded or b U ype (Straight	D O O O O O O O O O O O O O O O O O O O	psi.  iLY.
be. M.A. O. Imp. 1. Hyd 1. Hyd 1. Tubol 3. Tubol 4. She	r, give dimension W.P.: 34 (interpretation of combosine) 2-13 to be consistent:  Floating (Mat'l Sies: 4-17 Incl. to be Course()	shells  test press. properties to SA- Stationary  pec. No.)  Mat'l Spec.  te complete trice(s):	DE & TU press	Dia., in	N/A t max. temp.  EMPT PER  Dia t. (subject to per of jacket  1	(interm to UG-20) (interm to UG-20) (interm to UG-20) (intermediate intermediate in	1/8" Diject to pro- /4" Do, in. sels or (b)	(external) TE EXEMPT (Indicate yes or ess.) Nom. thk. in channels of it) Overall length	PER UK no and t  9 1/ Nom. t  Nom. t theat exc	F Min. design CS-66(a). REQ'E he component(s) te Proof test  A" hk. in.  Cor BWG M/W hk., in. or gauge changers.	Cc - T. Allow	3/16" m. Allow ., in. 3:  Num	EL TEN ., in. 38 nber cum. Join	32  1A FLG 8  N  At	ee & weld, if bolt "F a  k NOZ S  L/A  Attach  ttachment  T	BOLTE ment (welde  (welded or b  ype (Straight	D d or bol or U)	psi.  iLY.
be. M.A. O. Imp. 11. Hyd tems 1 22. Tube tems 1 44. She	r, give dimension W.P.: 34 (interpretation of combound of course) Course(: Diameter, in. 38"	stest press. properties of the complete true of the complete true of the complete co	DE & TU press	Dia., in	N/A t max. temp.  EMPT PER  Dia t. (subject to puber of jacket 1  Material Grade or Type	(interm 2 UG-20)( 522 P 35 a., in. (subpress.) 3. O.D. eted ves	psi 1/8" Dject to pro- /4" D, in. sels or (b) Nom. 2 1/2"	(external)  IE EXEMPT (Indicate yes or ess.)  Nom. thk. ir  channels of I ) Overall length nickness Corr.	PER UK no and t  9 1/ Nom. t  Nom. t  theat ex. (ft & in.)	F Min. design CS-66(a). REQ'E the component(s) te Proof test  14" hk. in.  Cor BWG M/W hk., in. or gauge changers.  cong. Joint (Cat.A) Full, Spot, None	metal to O ON C Cc - T. Allow	3/16" rr. Allow ., in. 3: Nun Circ	EL TEN ., in. 38 nber cum. Join	32  1A FLG 8  N  A1' - 4''  1' - 4''  oot, None  JLL	ee & weld, if bolt F a NOZ S  I/A  Attach  Attachment  T  & C)  Eff.  1.0	BOLTE ment (welder (welded or b U ype (Straight	D O O O O O O O O O O O O O O O O O O O	psi.  iLY.
be. M.A. O. Imp. 1. Hyd tems 1 2. Tube tems 1 4. She	r, give dimension W.P.: 34 (interpretation of combound of course) Course(: Diameter, in. 38"	stest press. properties of the complete true of the complete true of the complete co	DE & TU press	Dia., in Spec./(SA-	N/A t max. temp.  EMPT PER  Dia t. (subject to puber of jacks 1  Material  Grade or Type  516-70N	(interm to UG-20) (interm to UG-20) (interm to UG-20) (intermediate intermediate in	psi 1/8" Dject to pro- /4" D, in. sels or (b) Nom. 2 1/2"	(external)  TE EXEMPT  (Indicate yes or ess.)  Nom. thk. ir  channels of I  ) Overall length  nickness  Corr.  1/16"	PER UK no and t  9 1/ Nom. t  Nom. t  theat ex. (ft & in.)	F Min. design CS-66(a). REQ'E the component(s) te Proof test  14" hk. in.  Cor BWG M/W hk., in. or gauge changers.  cong. Joint (Cat.A) Full, Spot, None	Ccc . T. Allow	3/16" T. Allow J., in. Circ	EL TEN  , in.  38 nber  Full,Sp	32  MA FLG 8  N  At 1' - 4''  It (Cat. A,B, bot,None JLL	ee & weld, if bolt F a NOZ S  I/A  Attach  Attach  T  & C)  Eff.  1.0	BOLTE ment (welde  (welded or b  Uype (Straight  Heat T  Temp.	D d or bol tor U)	psi.  iLY.
be. M.A. M.A. M.A. M.A. M.A. M.A. M.A. M.	r, give dimension W.P.: 34 (interest content of the	stest press. properties of the complete stationary pec. No.)  Mat'l Spec. pec complete complete complete stationary pec. No.)  Length (ft & 1' 4"	DE & TU press	Dia., in Spec./( SA- (Mat'l Sp	N/A t max. temp.  EMPT PER  Dia t. (subject to per of jacket  Material  Grade or Type  516-70N  SA- ec. No. Grade	(interm to press.) 35 a., in. (subpress.) 3. O.C. eted ves 516-70 e or Type)	All (b) PLAT (b) PLAT (c) PLAT	(external)  TE EXEMPT (Indicate yes or ess.)  Nom. thk. in the indicate of I overall length ending the indicate of I overall length end	PER UK no and t  Nom. ti  Nom. ti  theat exc (ft & in.)	F Min. design CS-66(a). REQ'E he component(s) te Proof test  A" hk. in.  Cor BWG M/W hk., in. or gauge changers.  cong. Joint (Cat.A) Full, Spot, None FULL  (b) Mat'l	Cc	3/16" rr. Allow ., in. Circ Type 1	EL TEN  ., in.  38 nber  Full,Sp Ft	32  1A FLG 8  N  Ai  1' - 4"  At (Cat. A,B,bot,None JLL No. Grade o	ee & weld, if bolt F a NOZ S  I/A  Attach  Attach  T  & C)  Eff.  1.0	BOLTE ment (welder (welded or b U ype (Straight Temp. 1150	D d or bol or U)  reatme Tir 150N	psi.  ited)
be. M.A. O. Imp. 1. Hyd tems 1 2. Tube tems 1 4. She	r, give dimension W.P.: 34 (interpretation of the control of the c	test press. properties of the complete stationary spec. No.)  Mat'l Spec. see complete complete complete complete stationary spec. No.)  Length (ft & 1' 4"	iDE & Tu	Dia., in Spec./( SA- (Mat'l Sp	N/A  t max. temp.  EMPT PER  Dia  (subject to public to	(interm to UG-20)  522 P  35 a., in. (subsected vesses)  3 control of the US-20 of	psi 1/8" Dject to pro- /4" D, in. sels or Nom. 2 1/2" N H.T Time	(external)  TE EXEMPT (Indicate yes or ess.)  Nom. thk. ir  channels of I ) Overall length nickness  Corr.  1/16"	PER UK no and t  Nom. ti  Nom. ti  theat exc (ft & in.)	F Min. design CS-66(a). REQ'E he component(s) te Proof test  A''' hk. in.  Cor BWG M/W hk., in. or gauge changers.  cong. Joint (Cat.A) Full,Spot,None FULL  (b) Mat'i	Ccc . T. Allow	3/16" T. Allow I., in. Circ Type 1 (Mat	EL TEN  , in.  38 nber  Full,Spec. N Side to	32  IA FLG 8  N  AI  1' - 4"  It (Cat. A,B. pot,None  JLL  N  Io. Grade o	ee & weld, if bolt if bolt if a NOZ S  I/A  Attach  Attach  T  & C)  Eff.  1.0	BOLTE  BOLTE  ment (welded or b  U  ype (Straight  Heat T  Temp.  1150	D d or bol or up of the treatme	psi. ILY. Ited)
be. M.A. Hyd tems 1 2. Tubol 3. Tubol 4. She	r, give dimension W.P.: 34 (interest content of the	test press. properties of the complete stationary spec. No.)  Mat'l Spec. see complete complete complete complete stationary spec. No.)  Length (ft & 1' 4"	DE & TU  press. be sectic 266-4N8 y (Mat'l Sp  No., Grad ed for in  in.)  kness  Corr.	Dia., in Spec./( SA- (Mat'l Sp	N/A t max. temp.  EMPT PER  Dia t. (subject to per of jacket  Material  Grade or Type  516-70N  SA- ec. No. Grade	(interm to press.) 35 a., in. (subpress.) 3. O.C. eted ves 516-70 e or Type)	psi 1/8"  1/8"  Dject to pro-  /4"  D, in.  sels or  Nom.  2 1/2"  N H.T Time tical	(external)  TE EXEMPT (Indicate yes or ess.)  Nom. thk. in the indicate of I overall length ending the indicate of I overall length end	PER UK no and t  Nom. ti  Nom. ti  theat exc (ft & in.)	F Min. design CS-66(a). REQ'E he component(s) te Proof test  A" hk. in.  Cor BWG M/W hk., in. or gauge changers.  cong. Joint (Cat.A) Full, Spot, None FULL  (b) Mat'l	Ccc . T. Allow	3/16" rr. Allow ., in. Circ Type 1	EL TEN  , in.  38 nber  Full,Spec. N Side to	32  1A FLG 8  N  Ai  1' - 4"  At (Cat. A,B,bot,None JLL No. Grade o	ee & weld, if bolt F a NOZ S  I/A  Attach  Attach  T  & C)  Eff.  1.0	BOLTE ment (welder (welded or b U ype (Straight Temp. 1150	D d or bol or up of the treatme	psi. iLY.

## FORM U-1 (Back)

	`				FURIN	U-1 (Bac	;K)	•			
16. M.A.W.P.:	2167	· 	- psi at	max. temp42	8		°F Min. design	metal temp.	32	°F a	t <u>2167</u> psi,
	(interna		xtemai)	(inten							
17. Impact test	Y	ES REQ'D C	ON CHAN. TER	MA FLG & NOZ.					SIDE & TU	BES EXE	MPT PER UG-20(1).
						yes of no and	the component(s) tes	sted)		a	الانات الحادث المتحادث
18. Hydro,pneu.or c	mb.test	press. press.	*****	3251	PSI	2	Proof test			WA	
19. Nozzles, inspec	ion, and	safetv valve ope	ninas:	× .				,			· ·
Purpose	<u> </u>	Diameter	Flange	Mate	erial	Nozzi	e Thickness	Reinforcement	How a	ttached	Location
(Inlet, Outlet, Dm)	No.	or Size	Туре	Nozzie	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.)
CHANNEL INLET	1	4" 1500#	RTJWN	SA-266-4NIT	SA-350LF2	1 7/16"	1/16"	NONE	UW16.1C	WELDED	CHANNEL BOTTOM
CHANNEL OUTLE	T 1	4" 1500#	RTJWN	SA-266-4NIT	SA-350LF2	1 7/16"	1/16"	NONE	UW16.1c	WELDED	CHANNEL TOP
SHELL INLET	1	8" 300#	RFWN	SA-106 B	SA-105N	.500"	1/8"	SA-516-70N	UW16.1c	WELDED	SHELL TOP
SHELL OUTLET	1	8" 300#	RFWN	SA-106-B	SA-105N	.500"	1/8"	SA-516-70N	UW16.1c	WELDED	SHELL BOTTOM
	_										
	_										
20. Supports:	Skirt	N/A Lu	igs N/A	Legs	N/A Othe	er	SADDLE	Attached	W	ELDED 1	O SHELL
zer cappono.	O.u.	Yes/no	No.		No.		(Describe)			(Where a	nd how)
21 Manufacture	's Parti	ai Data Repo	rts properly ide	entified and signer	by Commissione	ed Inspector	s have been furr	ished for the follow	ing items o	f the repo	rt:
				and identifying n						•	N.
22. Remarks:	STI	RESS RELI	EVE: "U" BE	NDS @ 1100 F	FOR 30 MINS.						
SAFETY V	ALVES	S: PSV ON	PIPING				_ CUBIC CA	PACITY: <u>136.4</u>	CU. FT.		
SURFACE	AREA:	2743.4	SQ. FT.								
SERVICE:	THI	ERMAL EM	ULSION / BF	W EXCHANGE	R						
ITEM#:	E -	301B									
<del></del>										·	
					<b>CERTIFICATE OF</b>	SHOP COM	PLIANCE				
We certify that	he state	ments made i	in this report are	correct and that a	Il details of design,	material, co	enstruction and wo	orkmanship of this ve	sel confor	n to the	
ASME Code for	Pressu	re Vessels, Se	ection VIII, Divis	ion 1.							
U Certificate of			•	5983	Exp	ires	March 30 1999	.19 99			1
		9						10%	1/2		
Date 2101	NY	> Name	Exchan	iger Industries (A l	Division of Premet	talco Inc.)	Signed	1710	(Repres	entative)	<del></del>
									(,		
					CERTIFICATE OF						(7)
I, the undersign	d, hold	ing a valid cor	mmission issue	d by the National Be	pard of Boiler and	Pressure Ve		d/or the State or Prov	ince of A	LBERTA	
and employed b	У.	ALBERTA BO	DILERS SAFETY	/ ASSOCIATION	<u>1</u>	of		RY, ALBERTA			ave inspected
the pressure ve	sel des	cribed in the I	Manufacturer's I	Data Report on	yon	2./_	19 9 2	and state that, to the	best of m	y knowledg	e and belief, the
Manufacturer ha	s const	ructed this pre	essure vessel in	accordance with A	SME code, Section	n VIII, Divisio	n 1. By signing th	is certificate neither t	he inspecto	r nor his	
employer make:	any wa	irranty, expres	ssed, or implied,	, concerning the pre	essure vessel desc	ribed in the	Manufacturer's Da	ta Report. Furthermo	re, neither l	he inspect	or C
nor his employe	r shall b	e llable in any	manner for an	personal injury or	property damage o	or a loss of a	any kind arising fr	om or connected with	this inspec	tion.	
Λ	٠.	100	610	2X.	,			12)	TQ	# 2-	2
Date (	24	/ <u>98</u> Sign	ed A	Dan_	-		Commis		/ /7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Proviond No.)
					ized inspector)			(Matt Bid)in	7.6114013111	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Prov.and No.)
					IFICATE OF FIELD				*		
•			•		I details of design,	material, co	nstruction and wo	rkmanship of this ves	sel confor	n to the	
ASME Code for	Pressur	e Vessels, Se	ction VIII, Divisi	ion 1.							
U Certificate of	Authori	zation No.			Expires			9			1
Date		Name					Signed				
		1101110		(Manu	facturer)		. 0.900		(Repres	entative)	
				CERT	IFICATE OF FIELD	ASSEMBL	Y INSPECTION				
I, the undersions	d. hold	ng a valid con	nmission issued					d/or the State or Prov	ince of		
and employed b				,		of					ave inspected
the pressure ves	_	cribed in the 1	Manufacturer's F	Oata Report on	·····	V	, 19	and state that, to the	hest of m		,
					SME code Seetile	VIII Distata		•		-	o and bonor, the
		•						is certificate neither ti			
, ,	•	• • •		• .				ta Report. Furthermor	•	•	ZI .
nor his employe	snall b	e liable in any	manner tor any	personal injury or	ргорепу damage о	r a loss of a	iny kind arising fro	om or connected with	ınıs ınspec	uon.	
D-4- :		0:									
Date		Sign(	90				Commissio	INS			