

## INSPECTION AND TEST CERTIFICATE /% EN-10204-3.1

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8/7/2019 4:20:19 PM

VELAN INC. 7007 Cote de Liesse Montreal

Customer Name: SUNBELT SUPPLY Valve Type: Full Port Gate

Figure Number: F08-2064C-13MY Description: 2"600 GT RF CF8M/316

Order:

Certificate: VC00027692 Date: 8/7/2019

Line: 1

Size: 2" (50 mm)

Pressure Class: 600 Class

Quantity: 2

## HYDROSTATIC TEST

Tes	Test Stan
Test Type	dard API-59
61-11	98
Packing	Hydro Test Result
Seat	lts ACCEPTABLE
Seat	Other Test:
Backseat	ACCEPTABLE

Test Type		Shell	Packing	(H.P.)	(L.P.)	Backsea
Duration (s	(scc)	15	15	N/A	15	
Pressure (p	(psig)	2175	2175	N/A	80	
Result		ACCEPTABLE	ACCEPTABLE	N/A	ACCEPTABLE	ACCEPTABLE

### A351-15-CF8M-

						CHEM	CHEMICALS				MEC	MECHANICALS	ALS
			С	Cr	Mn	Mo	Z	P	s	Si	ELONG	UTS	YIELD
Heat Code	Unit	Heat Treat	%	%	%	%	%	%	%	%	(%)	(ksi)	(ksi)
SMG01F01 BONNET	BONNET	SOL ANN/QUE N	0.059	18.52	0.87	2.09	9.42	0.032	0.01	1.22	54.2	76.58	46.41
SMG08E28 BODY	вору	SOL ANN/QUE	0.065	18.87	0.84	2.12	9.35	0.032	0.01	1.2	50.6	78.32	47.57
A351-16-CF8M-	-M8												
						CHEMICALS	ICALS				MEC	MECHANICALS	ALS
2			C	Cr	Mn	Mo	Z	P	SS	Si	ELONG UTS		YIELD
Heat Code	Unit	Heat Treat	%	%	%	%	%	%	ø	%	(%)	(ksi)	(ksi)
ЈИН22К26 ВОДУ	ВОДУ	SOL ANN/QUE	0.066	18.477	0.935	2.247	9.415	0.033	0.005	1.179	60.2	81.34	45.8
	BONNET	ANN/QUE	0.066	18.477	0.935	2.247	9.415	0.033	0.005	1.179	60.2	81.34	45.8



EN-10204-3.1

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TEST REPORT (EN 10204 - 2.1)

Valve Item STEM SEAT NUTS ASTM-A182 F316L+CoCr ASTM-A194 8M Specification SS316

All Velan Valves are tested in accordance with specification required by the design. Valves designed to API specifications API 594, API 600, API 602, API 603, API 608, API 609 and API 623 are tested to API 598. Valves designed to B16.34 are tested to B16.34 and MSS-SP-61.

WDGE

STUD

ASTM-A193 B8M CL.2 ASTM-A351 CF8M

All materials are dually certificable to ASTM / ASME.

accuracy of the data. The header information on this certificate (including customer name, valve description, figure number, and quantity) has been entered by the user of this application and he/she is therefore responsible for the

Velan certifies that valve(s) described above are in compliance with the requirements of the identified standards and specifications. This report is based on actual test results of chemical and mechanical properties as well as hydrostatic test, and is in compliance with EN 10204 3.1.

Vice President, QA Victor Apostolescu

### ALCO FLOW CONTROL

### ASME VALVE MODIFICATION

QF 704 Rev 0

4905-72 Avenue, Edmonton, Alberta T6B 2M6 PHO

PHONE: (780) 440-4560

### **INSPECTION & TEST REPORTS**

TUD 2		2. (780) 440-43				10110							
	DATE	Aug13	3/ 2019		)B#	73674		1.D. #				isted	
CI	USTOMER	Sun	belt		ATION	EDMON		P.O.				73-00	
	MAKE		lan ''		PE	GAT		FIG		F08-		13MY-W:	320
3.4	SIZE ATERIAL	2			NDS ERIAL	RF	V-	RATIN			6	00	
M	BODY		8M	BON	NET	CF8			TRIM:	SEAT		13CR/CF8	
	ID #	BODY HT#	BONNET HT#	SHELL	BK. SEAT	H.P. CLOSURE	LKG. D.P.M.	L.P. CLOSURE	LKG. D.P.M.	DURATION SEC.	ACC	REJ	TESTEL
1	70186	SMG08E28		2225	1650	1650	0	80	0	60/120	X		SHARM
2	70187	JUH22K26		2225	1650	1650	0	80	0	60/120	X		SHARM
3	70201	001111111			1000	2000			-	00/120			
4	g g Care		-	- 7-									
5													
6													
7													
8													
9													
10													
11				1777									
12													
13													
14													
15				l				7 7					
TE!	ST PRESSURE	E IS IN PSI:	TEST CO	DDE:	API 598	yes	ASME 16.34		М	SS.SP.61		OTHER	
	TEST REQU		SHELL	YES	BAC	CKSEAT	yes	H.P. CLO	SURE	yes	L.P. C	CLOSURE	yes
	INSPECTE	D BY:	Edwa	ard Chan	ıg /	CUSTON	MER INS	PECTOR:					
СН	IECKLIST:	ENDS CO	OVERED	V	PAI	NTING	×	APPEAR	ANCE	1	TAG	GGING	1
		QUAN	TITY	2	M.T.R	TRACKING	مر	PAPERW	ORK		PAC	KAGED	1
V	INSPECTE VORK PERFO		EDWA	RD CHA	NG	CUSTO	MER INS	PECTOR:					
Disas	semble												
	for Husky ca	it.c test											
	mble and Hy		per API 598										
PTG-	22												
PTG-													
SIGN	ATURE	1	Sici										



### HARDNESS TESTING REPORT

2450-80 Ave, Edmonton, Alberta T6P1N2 Phone:(780)469-8333 Fax:(780)469-8884

HT# 51976

			Sign:			Date	e:			
Fechnician Bill Parry  The above interpretation is a profection Representative (Print):	ssional op	inion: final intern	T/CGSB Level	sibility of the	client.	Assista				
nterpretation is done in accordance	e with the			professional a	ability.					
			O.T. hrs			O 1/IVIL			rinto	
A.M. TIME IN TIME OUT	TIME IN	TIME OUT	S.T. 0.5 hrs	KMS	SUBS MAN DAY	OT/ME	ALS		UMABLES hits	3
			-							_
										-
										_
	- 4572	m-111-4-1								
Bonne	, Heat #:	JUH22K26		190						
		JUH22K26		198					✓ ✓	
	V1A									
Bonnet		SMG01F01		177					✓	
Body,	Heat #: S	SMG08E28		188					<b>√</b>	
	V1									
EST EQUIPMENT: Instrument: Krautkramer ARDNESS RESULTS:		_ Model: ched drawings	Mic 10	Serial I Sheets sk		-5800 Ca	I. Date:	May 9, Supplem		<b>)</b>
XAMINATION CONDITIONS				s Ground	☐ Machined	d 🗌 Pair	nted 🗆	Shot Bla	asted	15°C
Description:			Gate Valve							
Acceptance Standard		sky Cat. C		ocale. D	IIIIIICI		W.O.		674-3	ů.
_ocation: Examination Standard		est Techno FM A1038		Scale: B	rinnol		JOB #		976 300	
Client:		o Inc.	In a land				IOD 4	L. E1	076	
Date:		just 12, 20	10				Page	3	_ of	3



### NDE EXAMINATION REPORT

2450-80 Ave, Edmonton, Alberta T6P1N2 Phone:(780)469-8333 Fax: (780)469-8884

71777	NOL I	ZAMINATION	TILL OF	DED	ODT# 5	1076			
TECHNOLOGIES IN	C.			MT [	ORT#: 5	LT 🖂		VT	$\triangleleft$
					<del>-</del>				
Date:	August 12, 201	9				Page	3	of	3
Client:	Alco Inc.								
Location:	Rivest Techno	logies Inc.				JOB #:	519	76	
Examination Standard	ASME V Art. 6					P.O. #:	927	'88	
Acceptance Standard	<b>ASME B16.34</b>		v Cat. C		1	W.O. #	736	74-3	8
Description:	Qty. (2): 3" 600# \								
EXAMINATION CONDITIONS:   A	as Welded ⊠ Base Me	etal	☐ Machin	ed  Painted	☐ Shot	Blasted It	spectio	n Temp:	15°C
		Se 10.7 to 1 to 1				Diaotoa	, op o o ti o		
Minimum Light Requirements: Black EQUIPMENT SI	cklight min 1000uW/cm ERIAL NO.	MPI TECHNIQ		LPI TECHNIQU	JE	TE	ST MEI	DIUM	
☐ Hand Yoke Magnaflux Y-6		☐ AC		Vater Washable		Wet: Ba			
☐ Blacklight Spectroline B	B 150P	DC DC		Solvent Remova		Dry: Ma			_
The state of the s	R1000 SN:1821145			ell Time15_ eloper Time 15		□ Dye: Ma     □ Dev:			
Calibrated / Due: Meter:9/13/18, 9/13/ Rivest Procedure: LT-1 Revision.				pretation Time 13		Batch #:	agnana	X OND C	-
EXAMINATION:									
	5 S U SS			w					
A Visual and liquid pene	etrant examination	on was perform	ned on a	ll accessible	areas	on the to	llowii	ng:	
	0.111								
Qty. (2): 2" 600# Velan	Gate Valve								
V1									
Body HT: SMG08E28									1
Bonnet HT: SMG01F01									
V1A									
Body HT: JUH22K26									
Bonnet HT: JUH22K26									
DECILITE:									
RESULTS:									
No rejectable indication	a ware noted du	ring overningti	on						
No rejectable indication Valves are acceptable t			OH.						
valves are acceptable t	o the above star	lualus.							
This Certificate or Report is valid only for that wo	rk which was specifically request	ed. The company is not resp	oonsible for any	views or opinions expres	ssed by emplo	vees performing	this work	which fall ou	tside the
contract terms or reference. All Certificates and/will not be responsible for deviation within the no	or Reports are the result of work	performed in conformance w	ith applicable sp	ecifications and standar	rds to the best	of our ability and	intent. H	owever, the	Company
A.M.	P.M.	TOTAL HOURS	KMS	SUBSIST				MABLES	
TIME IN TIME OUT TIE	ME IN TIME OUT	S.T hrs		MAN DAY	OT/MEAI	LS			
Interpretation is done in accordance	with the specified standa	O.T. hrs ard, to the best of my	professional	ability.	-	1			
Technician Jeff Kinsella	12	T/CGSB Level II			Assistant				
The above interpretation is a profess	ional opinion, final interp	retation is the respon	sibility of the	client.	, toolotailt				
Client Representative (Print):		Sign:			Date:				
						<b>******</b>			



2450-80 Ave, Edmonton, Alberta T6P1N2 Phone: (780) 469-8333 Fax: (780) 469-8884

RT#: 51976

Date:	
Date.	

August 9, 2019

JOB #:

51976

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Client: Location: Rivest Technologies Inc.

Alco Inc.

P.O. #:

93300

Description: Qty. (2) - 2" 600# Velan Gate Valve

IF IP UC		ETE FUSION ETE PENETRATIO :UTTING	P - DN BT IC	POROSIT - BURN T - INTERNA - LOW CO	TY THROUGH AL CONC		X = R HB - H C - CR AB - A SH - S	OLLON ACK RC BU	RNS	.D	SEVEI AS PER ASTM E Radiogr	R E446	1 - SIN 2 - DOI 3 - SIN	UBLE WA	ES LL EXPOS ALL EXPOS LL VIEWIN ALL VIEWII	SURE G	1 - AS 2 - AS 3 - AS	E LEGEND  ME B31.3 NORMAL 5 - ASME B16.3  ME B31.3 SEVERE 6 - CSA Z 662  ME VIII DIV 1 UW51 7 - Husky Cat. C  ME VIII DIV 1 UW52 8 - SCL L37 Ca	
	FILM NO.	LOCATION	DIA.	THK.	SOD	SYM	IF	IP	IC	UC	s	Р	SH		PROC #	CODE #	1	REMARKS	X
1	X#																	WO#: 73674-3	
2								U .											
3														1				Body Heat #: SMG08E28	
4	V1							1										Bonnet Heat #: SMG01F01	
5	X1	Body	2"	600#	24"								===		2/4	5/7	1		
6	X2	Body	2"	600#	24"										2/4	5/7	1		
7	Х3	Bonnet	2"	600#	24"										1/3	5/7	1		
8																			-
9																			
10																		Body Heat #: JUH22K26	
11	V1A																	Bonnet Heat #: JUH22K26	
12	X1	Body	2"	600#	24"							1	2		2/4	5/7	1		
13	X2	Body	2"	600#	24"							1	2		2/4	5/7	1		
14	Х3	Bonnet	2"	600#	24"						-				1/3	5/7	1		
15																			
16																			$\vdash$
17																			
18																			
19				il i															
20																			
21																			
22																			
23		+																	
24		¥												-					
25																			
26													_						
27																			

o. Of Exp.	Film Brand & Design	Screen Type &	No. of Film	Type of	Physical Size	Material	OFD	IQ	II
	a zooigii	Thickness	per Cassette	Energy				Туре	Size
10	Kodak	0.010" Pb	1	IRI92	<0.12"	P1	600#	ASTM	В

This Certificate or Report is valid only for that work which was specifically requested. The company is not responsible for any views or opinions expressed by employees performing this work which fall outside the contract terms or reference. All Certificates and/or Reports are the result of work performed in conformance with applicable specifications and standards to the best of our ability and intent. However, the Company will not be responsible for deviation within the normal limits of accuracy in accordance with the standard practices. Final Code Acceptance shall require Client and Manufacturer Representative's signatures.

A.N			.M.	TOTAL	HOURS	KMS		STENCE	FILM
TIME IN	TIME OUT	TIME IN	TIME OUT	S.T.	hrs		MAN DAY		4 - 14" x 17"
			pecified code, to the	O.T.	hrs				6 - 70 x 220mm

Radiographer Daryl Rivest The above interpretation is a professional opinion, final film intel	SNT/CGSB Level	II CGSB # 6202	Assistant	Adam	
I am in full agreement with the contents of this report and accep	receipt of the associated	film. Client Representative:			



√ = Accept

DEFECT LEGEND

### RADIOGRAPHIC INSPECTION REPORT

SEVERITY

**PROCEDURES** 

2450-80 Ave, Edmonton, Alberta T6P1N2 Phone: (780)469-8333 Fax: (780)469-8884

CODE LEGEND

600#

**ASTM** 

В

of 3

RT#: 51976

Date:	August 9, 2019	JOB #:	51976	Page	3
Client:	Alco Inc.	P.O. #:	93300		
Location:	Rivest Technologies Inc.	Description:	Qty. (2) - 2" 600	0# Velan Gate Valve	

X = Reject

IF - INCOMPLETE FUSION P - POROSITY BT - BURN THROUGH HB - HOLLOW BEAD C - CRACK 1 - SINGLE WALL EXPOSURE 1 - ASME B31.3 NORMAL 5 - ASME B16.34 - INCOMPLETE PENETRATION 6 - CSA Z 662 7 - Husky Cat. C AS PER 2 - DOUBLE WALL EXPOSURE 2 - ASME B31.3 SEVERE **UC - UNDERCUTTING** IC - INTERNAL CONCAVITY AB - ARC BURNS ASTM E446 3 - SINGLE WALL VIEWING 3 - ASME VIII DIV 1 UW51 S-SLAG/SAND LC - LOW COVER SH - SHRINKAGE Radiographs 4 - DOUBLE WALL VIEWING 4 - ASME VIII DIV 1 UW52 8 - SCL L37 Cat.3 FILM LOCATION PROC CODE DIA THK X SOD SYM ΙF IP IC UC S P SH REMARKS NO # 1 X# WO#: 73674-3 2 3 Body Heat #: SMG08E28 4 V1 Bonnet Heat #: SMG01F01 5 X1 Body 2" 600# 24" 2/4 5/7 6 X2 2" Body 600# 24" 2/4 5/7 7 X3 Bonnet 2" 24" 1 1/3 5/7 8 9 10 Body Heat #: JUH22K26 11 V1A Bonnet Heat #: JUH22K26 12 X1 Body 2" 600# 24" 1 2 2/4 5/7 13 X2 Body 2" 600# 24" 1 2 214 5/7 Bonnet 2" 600# 24" 1/3 5/7 15 16 17 18 19 20 21 22 23 24 25 26 27 No. Of Exp. Film Brand Screen No. of Film Type of **Physical Size** Material OFD IQI & Design Type & per Energy Type Size **Thickness** Cassette 10 Kodak 0.010" Pb 1 **IRI92** < 0.12" P1

will not be responsible for deviation within the normal limits of accuracy in accordance with the standard practices. Final Code Acceptance shall require Client and Manufacturer Representative's signatures. TOTAL HOURS **KMS** SUBSISTENCE FILM TIME IN TIME OUT TIME IN TIME OUT S.T. hrs MAN DAY OT/MEALS 4 - 14" x 17" O.T. hrs 6 - 70 x 220mm Film Interpretation is done in accordance with the specified code, to the best of my professional ability.

This Certificate or Report is valid only for that work which was specifically requested. The company is not responsible for any views or opinions expressed by employees performing this work which fall outside the

Dans Rint

Radiographer	Daryl Rivest		SNT/CGSB Level	II CGSB # 6202	Assistant	A dama	
The above interpr	retation is a profess	sional opinion fin	al film interpretation is the responsib	lity of the client	Assistant	Adam	
I am in full agreer	ment with the conte	ante of this ronad	and accept execution is the responsib	illy of the client.			
. a iii iaii agi ccii	none with the conte	ents of this report	and accept receipt of the associated	film. Client Representative:			





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EN-10204-3.1

Customer Name: SUNBELT SUPPLY

Figure Number: F08-2064C-02NE Valve Type: Full Port Gate

VELAN INC. 7007 Cote de Liesse Montreal

Description: 2"600 GT RF WCB/13CR/HF NACE

Order:

Line: 1

Certificate: VC00027685

Date: 8/7/2019

Pressure Class: 600 Class Size: 2" (50 mm)

Quantity: 2

## HYDROSTATIC TEST

Tes	Test Standard:	API-598		Hydro Test Results	alts : ACCEPTABLE	Other Test:	Other Test: ACCEPTABLE
	Test Type		Shell	Packing	Seat (H.P.)	Seat (L.P.)	Backseat
	Duration	(sec)	15	15	N/A	15	15
	Pressure	(psig)	2225	2225	N/A	80	1650
	Result		ACCEPTABLE	ACCEPTABLE	N/A	ACCEPTABLE	ACCEPTABLE

### A216-16-WCB-

								CI	CHEMICAL	LS						MECHA	NICALS	
			Œ	Δ	С	Cr	Cu	Mn	Mo	Z	P	00	<u>S:</u>	<	ELONG	RED	G RED UTS	YIELI
Heat Code	Unit	Heat Treat		%	%	%	%	%	%	%	%	%	%	%	(%)	(%)	(ksi)	(ksi)
BNJ19K15	BODY	NORMALI ZED	0.36	0.045	0.187	0.046	0.028	0.9	0.009	0.155	0.024	0.009	0.376	0.003	31	60	78.9	51.2
BNJ20C07	BONNET	NORMALI ZED	0.37	0.037	0.208	0.031	0.023	0.875	0.004	0.022	0.027	0.008	0.377	0.006	29	58	75.71	49.02
BNJ20K11	BONNET	NORMALI ZED	0.34	0.04	0.18	0.03	0.02	0.91	0.007	0.037	0.021	0.009	0.387	0.001	29	62	74.26	47.14
BNJ20K15	вору	NORMALI 0 ZED	0.37	0.036	0.188	0.039	0.023	0.95	0.008	0.133	0.024	0.009	0.373	0.005	29	54	76.29 45.54	45.54



### EN-10204-3.1

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TEST REPORT (EN 10204 - 2.1)

Valve Item WDGE NUTS STUD STUD STEM SEAT NUTS ASTM-A479 SS410 NACE ASTM-A216 WCB+CoCr ASTM-A105/A106+CoCr ASTM-A193 B7M ASTM-A194 2HM ASTM-A193 B7 ASTM-A1942H Specification

All Velan Valves are tested in accordance with specification required by the design. Valves designed to API specifications API 594, API 600, API 602, API 603, API 608, API 609 and API 623 are tested to API 598. Valves designed to B16.34 are tested to B16.34 and MSS-SP-61.

Valves meet the material requirement of the current NACE MR0103 and NACE MR0175 / ISO 15156. Its is the equipment user's responsibility to ensure that the materials are suitable for the intended service.

All materials are dually certificable to ASTM / ASME.

The header information on this certificate (including customer name, valve description, figure number, and quantity) has been entered by the user of this application and he/she is therefore responsible for the accuracy of the data.

Velan certifies that valve(s) described above are in compliance with the requirements of the identified standards and specifications. This report is based on actual test results of chemical and mechanical properties as well as hydrostatic test, and is in compliance with EN 10204 3.1.

Victor Apostolescu Vice President, QA



ALCO FLOW CONTROL

### ASME VALVE MODIFICATION

QF 704 Rev 0

4905-72 Avenue, Edmonton, Alberta T6B 2M6 PHO

PHONE: (780) 440-4560

### **INSPECTION & TEST REPORTS**

	DATE	Aug13	3/2019	JC	)B#	73674	1-2	I.D. #	1		25	listed	-
CU	STOMER		belt		ATION	EDMON		P.O.				73-00	
	MAKE		lan		PE	GAT		FIG#		F08-		-02NE-W3	20
	SIZE		111		NDS	RF		RATIN		7.00		500	
M.	ATERIAL				ERIAL				TRIM:		T		
1	BODY	W	CB		NET	WC	В	STEN	A/ DISC			13CR/H	F/HF
	ID	BODY	BONNET	SHELL	BK.	H.P.	LKG.	L.P.	LKG.	DURATION			TECTED
	#	HT#	HT#	TEST	SEAT					1115,37	ACC	REJ	TESTED
-						CLOSURE		CLOSURE	D.P.M.	SEC.			BY
1	70184	BNJ19K15	BNJ20C07	2225	1650	1650	0	80	0	60/120	X		SHARMA
2	70185	BNJ20K15	BNJ20K11	2225	1650	1650	0	80	0	60/120	X		SHARMA
3													
4													
5				-									
6													
7													
8													
9													
10													
11					7								
12													
13													
14						· ·		-					
15													
13													
			TEST CO	DDE:	API	yes	ASME		24	SS.SP.61		OTHER	
TES	T PRESSURE	IS IN PSI:	1251 CC	JUIG.	598	yes	16.34		141	33.31.01		OTHER	
	TEST REQU	IRED:	SHELL	YES	BAC	KSEAT	yes	H.P. CLOS	SURE	yes	I.P. C	LOSURE	yes
1	#2" VINCE - #1			1 1 2 2 2 2 2 2			,			<i>y</i> 00	2318 1 0		jes
											101		-
5	INSPECTEI	D BY:	Edwa	ard Chan	g	CUSTON	MER INS	PECTOR:					
		-											
		nvino od			100	vo establica				/			/
		ENDS CO	OVERED		PAI	NTING	70	APPEARA	NCE	W.	TAC	GGING	V
CH	ECKLIST:			6									/
		OUAN	TTITY	2	Marna	DA CKING	عر	D	0011				
		QUAN	CITIY	2	WI.I.K	RACKING		PAPERW	ORK		PAC	KAGED	0.70
		Т											
	INSPECTED	BY:	EDWA	RD CHA	NG	CUSTON	AER INS	PECTOR:					
W	ORK PERFO					3,33,31	1221 1110	. Derom.					
												-	
						-							_
Disas	semble												
	for Husky car	t c test											
	nble and Hyd		OF ADI 508										
710001	iibic dila riye	no rest as p	61 Al 1 030										
PTG-2	22												
PTG-4	10												
-			**										
SIGNA	ATURE		2										
			//										
			Au										
		1	Alex										
		6	1										
							F-1-1-1-1			- 1-3			
												1	



### HARDNESS TESTING REPORT

2450-80 Ave, Edmonton, Alberta T6P1N2 Phone:(780)469-8333 Fax:(780)469-8884

HT# 51976

Date:	August 12, 20	19		-5152		_ Page	2	_ of	3
Client:	Alco Inc.								
Location:	Rivest Techno	logies Inc.				JOB;	#: 51	976	
Examination Standard	<b>ASTM A1038</b>		Scale: B	rinnel		P.O. :	#: 93	300	
Acceptance Standard	Husky Cat. C		<u> </u>			W.O.		674-2	
	2" 600# Velan	Coto Valvo				_ **.0.	<i>II</i>	0712	
Description:			0	□ NAI-i			1 Chat Dia	a de d	15°C
EXAMINATION CONDITIONS: [ TEST EQUIPMENT: Instrument: Krautkramer	Model:	Mic 10	Serial I		ed	al. Date:	Shot Bla	2019	15-0
	ee attached drawings	L	Sheets sl		18/88	HAZ	Supplem	ientai	X
D	escription V1	-	FIAI	HAZ	WM	HAZ	1 101	V	^
Pody U	eat #: BNJ19K15		146					1	
	Heat #: BNJ20C07		142					1	
bornet, r	V2		142					,	
Pody U	eat #: BNJ20K15		151					<b>/</b>	
	Heat #: BNJ20K13		154					1	
Donnet, 1	leat #. DNJZUKTI		104						
-									
							1		
									-
							-		
							-		
									-
									1
	532								
A.M.  TIME IN   TIME OUT   TIME	P.M. ME IN TIME OUT	S.T. 0.5 hrs	KMS	MAN DAY	SISTENCE OT/M	EALS	··· · · · · · · · · · · · · · · · · ·	UMABLES 4 hits	3
		O.T. hrs	6						
Interpretation is done in accordance	2/2_		professional a	ability.					
The above interpretation is a profess	ional opinion; final intern	T/CGSB Level	sibility of the	client	Assist	ant			
Client Representative (Print):		Sign:			Da	ate:			



2450-80 Ave, Edmonton, Alberta T6P1N2 Phone:(780)469-8333 Fax: (780)469-8884

TECHNOLOGIES IN	C.				PORT#:	51976 LT [	VT [	$\boxtimes$
Date:	August 12, 20	19				Page	2 of	3
Client:	Alco Inc.							
Location:	Rivest Techno	ologies Inc.				JOB #:	51976	
Examination Standard	ASME V Art. 7					P.O. #:	93300	
Acceptance Standard	ASME B16.34		ky Cat	C		W.O. #	73674-2	
Description:	Qty. (2) - 2" 60					vv.O. 11	10014-2	
EXAMINATION CONDITIONS: A					d ☐ Sho	ot Blasted In	nspection Temp:	15°C
Minimum Light Requirements: Fluo	rescent = Blacklight r						OT RAPPULA	
☐ Hand Yoke Magnaflux Y-6		MPI TECHNI	IQUE	LPI TECHNIQ  Water Washabl		☑ Wet: Ba	ST MEDIUM	
⊠ Blacklight Spectroline BII		DC	Ē	Solvent Remov			gnaflux 14A	
	R-1000 SN:1821145			well Time 10	min	☐ Contrast	t: Magnaflux WC	P-2
MT2	9/13/18, 9/13/19 Daily Check <			evelop Time 10	min		agnaflux 7HF	
Rivest Procedure: VT1 Revision. 0	Lighting: LED	⊠ 10#bar TB	30013 In	terpretation Time 1	<u>0</u> min	Batch #:		
EXAMINATION:								
Visual and wet fluoresce the following:	nt magnetic pa	rticle examina	ations w	ere performe	d on all	accessib	le areas on	1
Qty. (2) - 2" 600# Velan V1	Gate Valve							
Body HT#: BNJ19K15								
Bonnet HT#: BNJ20C07								
V2								
Body HT#: BNJ20K15								
Bonnet HT#: BNJ20K11								
1								
RESULTS:								
11200210.								
No rejectable indications	were noted du	ring overningt	ion					
Valves are acceptable to	the above star	ning Examinat	1011.					
valves are acceptable to	the above star	idalus.						
This Certificate or Report is valid only for that work contract terms or reference. All Certificates and/or	which was specifically request	ed. The company is not re-	sponsible for ar	ny views or opinions expre	essed by emplo	ovees performing th	nis work which fall outs	side the
contract terms or reference. All Certificates and/or will not be responsible for deviation within the normal	Reports are the result of work al limits of accuracy in accorda	performed in conformance ance with the standard prac	with applicable tices. Final Co	specifications and standa de Acceptance shall requi	rds to the best	of our ability and in	ntent. However, the Cosentative's signatures	ompany
A.M.	P.M.	TOTAL HOURS	KMS	SUBSIST			ONSUMABLES	
TIME IN TIME OUT TIME	IN TIME OUT	S.T. hrs		MAN DAY	OT/MEA		CHOOMADLES	
Interpretation is done in accordance wi	th the specified standa	O.T. hrs	profession	al ability				
Technician Jeff Kinsella	1)			-				
The above interpretation is a profession	nal opinion, final intern	T/CGSB Level II	CGSB # 8	526 ne client	Assistant			
			13-37-7					
Client Representative (Print):		Sign:			Date:			



2450-80 Ave, Edmonton, Alberta T6P1N2 Phone:(780)469-8333 Fax:(780)469-8884

RT#: 51976

	Data	
Date:	Date.	

August 9, 2019

JOB #:

51976

Page 2 of 3

Client: Location: Rivest Technologies Inc.

Alco Inc.

P.O. #:

93300

Description: Qty. (2) - 2" 600# Velan Gate Valve

CODE LEGEND

DEFECT LEGEND IF - INCOMPLETE FUSION IP - INCOMPLETE PENETRATION UC - UNDERCUTTING S - SLAG/SAND

√ = Accept P - POROSITY BT - BURN THROUGH IC - INTERNAL CONCAVITY

X = Reject HB - HOLLOW BEAD C - CRACK AB - ARC BURNS SH - SHRINKAGE

SEVERITY AS PER ASTM E446 Radiographs

**PROCEDURES** 1 - SINGLE WALL EXPOSURE 2 - DOUBLE WALL EXPOSURE 3 - SINGLE WALL VIEWING 4 - DOUBLE WALL VIEWING

1 - ASME B31.3 NORMAL 2 - ASME B31.3 SEVERE 3 - ASME VIII DIV 1 UW51 4 - ASME VIII DIV 1 UW52

5 - ASME B16.34 6 - CSA Z 662 7 - Husky Cat. C 8 - SCL L37 Cat.3

	CUA			20110			011-0	A II SII AI S	VOL		taulogi	apris	4 - DOUBL	E WALL VIEWI	NG	4 - AS	ME VIII DIV 1 UW52 8 – SCL L37 Ca	t.3
_	FILM NO.	LOCATION	DIA.	THK.	SOD	SYM	IF	IP	IC	UC	s	Р	SH	PROC #	CODE #	V	REMARKS	X
1	X#																WO#: 73674-2	
2																		
3																	Body Heat #: BNJ19K15	
4	V1																Bonnet Heat #: BNJ20C07	
5	X1	Body	2"	600#	24"						1	1		2/4	5/7	1		+
6	X2	Body	2"	600#	24"							1		2/4	5/7	1		_
7	Х3	Bonnet	2"	600#	24"									1/3	5/7	1		-
8														- 170	- 377	i i		
9																		
10																	Podu Haat # DN 100145	
11	V2																Body Heat #: BNJ20K15	
12	X1	Body	2"	600#	24"							2		0/4		,	Bonnet Heat #: BNJ20K11	
13	X2	Body	2"	600#	24"				-			-		2/4	5/7	1		
14	Х3	Bonnet	2"	600#	24"							2		2/4	5/7	1		
15			_		27									1/3	5/7	1		
16							-	-										
17																		
18							-											
19						-		-										
20																		
21											-							
22							-											
23							-		-									
24							-											
25							-	-										
26		- 100-24		_			-	_										
27	-																	

No. Of Exp.	Film Brand & Design	Screen Type &	No. of Film per	Type of	Physical Size	Material	OFD	IC	1
		Thickness	Cassette	Energy				Туре	Size
10	Kodak	0.010" Pb	1	IRI92	<0.12"	P1	600#	ASTM	D

This Certificate or Report is valid only for that work which was specifically requested. The company is not responsible for any views or opinions expressed by employees performing this work which fall outside the contract terms or reference. All Certificates and/or Reports are the result of work performed in conformance with applicable specifications and standards to the best of our ability and intent. However, the Company will not be responsible for deviation within the normal limits of accuracy in accordance with the standard practices. Final Code Acceptance shall require Client and Manufacturer Representative's signatures.

	.M.	P	.M.	TOTAL	HOURS	KMS	SI IBSI	STENCE	er Representative's signatures.
TIME IN	TIME OUT	TIME IN	TIME OUT	CT		TAINO		STENCE	FILM
	11112001	THAIR HA	THIVIE OUT	5.1.	hrs		MAN DAY	OT/MEALS	4 - 14" × 17"
				O.T.	hrs				7 17 11
Film Interpretation	n is done in accord	dance with the si	pecified code to the	no boot of	1110				6 - 70 x 220mm

	Profession is delically accountance with the specified code,	to the best of my professional ability	
	in a lint	protocolorial ability.	
1	l'a V ka D		

Radiographer Daryl Rivest 120 SNT/CGSB Level II CGSB # 6202 The above interpretation is a professional opinion, final film interpretation is the responsibility of the client. Assistant Adam am in full agreement with the contents of this report and accept receipt of the associated film. Client Representative:



2450-80 Ave, Edmonton, Alberta T6P1N2 Phone: (780) 469-8333 Fax: (780) 469-8884

RT#: 51976

-	
Data:	
Dale.	

August 9, 2019

✓ = Accept

Alco Inc.

JOB #:

51976

Page 2 of 3

Client: Location: Rivest Technologies Inc.

**DEFECT LEGEND** 

P.O. #:

93300

Description: Qty. (2) - 2" 600# Velan Gate Valve

IF IP UC	FECT LE - INCOMPL - INCOMPL - UNDERC - SLAG/SAN	ETE FUSION ETE PENETRATIC UTTING	P . ON BT IC		TY THROUGH AL CONCA		X = Re HB - H C - CR AB - A SH - S	IOLLON IACK RC BU	RNS	D	SEVER AS PER ASTM E Radiogr	446	1 - SIN 2 - DOI 3 - SIN	UBLE WA	S LL EXPOS LL EXPOS LL VIEWIN	SURE	1 - AS 2 - AS 3 - AS	E LEGEND  ME B31.3 NORMAL 5 - ASME B16.3  ME B31.3 SPERE 6 - CSA Z 662  ME VIII DIV 1 UW51 7 - Husky Cat. 1  ME VIII DIV 1 UW52 8 - SCL L37 Ca	С
	FILM NO.	LOCATION	DIA.	THK.	SOD	SYM	IF	IP	IC	UC	s	Р	SH		PROC #	CODE #	1	REMARKS	X
1	X#																	WO#: 73674-2	
2																			
3																		Body Heat #: BNJ19K15	1
4	V1																	Bonnet Heat #: BNJ20C07	T
5	X1	Body	2"	600#	24"						1	1			2/4	5/7	1		
6	X2	Body	2"	600#	24"							1			2/4	5/7	1		+-
7	Х3	Bonnet	2"	600#	24"										1/3	5/7	1		+
8																			+-
9														-					+
10																		Body Heat #: BNJ20K15	
11	V2																	Bonnet Heat #: BNJ20K11	+
12	X1	Body	2"	600#	24"							2			2/4	5/7	1		-
13	X2	Body	2"	600#	24"							2			2/4	5/7	1		+
14	Х3	Bonnet	2"	600#	24"										1/3	5/7	1		-
15																			
16																			-
17																			-
18																			-
19																			+
20																			-
21																			-
22																			
23																			-
24																			
25												+			-				-
26													-						-
7																			

lo. Of Exp.	Film Brand & Design	Screen Type &	No. of Film per	Type of	Physical Size	Material	OFD	IC	QI .
	5	Thickness	Cassette	Energy				Туре	Size
10	Kodak	0.010" Pb	1	IRI92	<0.12"	P1	600#	ASTM	R

This Certificate or Report is valid only for that work which was specifically requested. The company is not responsible for any views or opinions expressed by employees performing this work which fall outside the contract terms or reference. All Certificates and/or Reports are the result of work performed in conformance with applicable specifications and standards to the best of our ability and intent. However, the Company will not be responsible for deviation within the normal limits of accuracy in accordance with the standard practices. Final Code Acceptance shall require Client and Manufacturer Representative's signatures.

T10 0 - 10 1				1 ( ) ( \( \D \)	HOURS	KMC	CLIDON	OTENIOE	
TIME IN TIME	OUT				HOUNS	VINIO	SUBSI	STENCE	FILM
THE THE	- 001	I LIAIE LIA	TIME OUT	S.T.	hrs		MAN DAY	OT/MEALS	4 - 14" × 17"
ilm Interpretation is de-	VIETNIE IN TIME OUT LOT			6 - 70 x 220mm					

specified code, to the best of my professional ability 00: +

Radiographer Daryl Rivest The above interpretation is a professional opinion, final film interpretation is a professional opinion, final film interpretation in full programment with the professional opinion.	SNT/CGSB Level	II CGSB # 6202	Assistant	Adam	
the above interpretation is a professional opinion, final film inte	erpretation is the responsit	ility of the client			
I am in full agreement with the contents of this report and accept	ot receipt of the associated	film. Client Representative:			



EN-10204-3.1

Customer Name: SUNBELT SUPPLY

VELAN INC. 7007 Cote de Liesse Montreal

Valve Type: Swing Check
Figure Number: F08-2114C-02TY

Description: 2"600 SC RF WCB/13CR

Order:

Line: 1

Certificate: VC00027709

Page

1 Of 2 8/7/2019 4:37:14 PM

Date: 8/7/2019

Size: 2" (50 mm)

Quantity: 2

Pressure Class: 600 Class

## HYDROSTATIC TEST

				Test :
Result	Pressure	Duration	Test Type	Test Standard:
	(psig)	(sec)		API-598
ACCEPTABLE	2225	15	Shell	
N/A	N/A	N/A	Packing	Hydro Test Results
ACCEPTABLE	1650	15	Seat (H.P.)	sults : ACCEPTABLE
N/A	N/A	N/A	Seat (L.P.)	Other Test
N/A	N/A	A/N	Backseat	Other Test: ACCEPTABLE

### A216-16-WCB-

								CI	CHEMICAL	LS						MECHA	NICALS	
			CE	Al	C	Ç	Cu	Mn	Mo	Z	P	to	Si	۷	ELONG	RED	UTS	YIEL
Heat Code	Unit	Heat Treat		%	%	%	%	%	%	%	%	%	%		(%)	(%)	(ksi)	(ksi)
BNH01D13 BODY	вору	NORMALI ZED	0.38	0.044	0.203	0.039	0.028	0.973	0.005	0.063	0.021	0.01	0.496	0.013	31	58	58 74.4	45.4
BNH02C07	7 BODY	NORMALI (ZED	0.36	0.045	0.197	0.031	0.022	0.897	0.005	0.02	0.02	0.009	0.526	0.011	32	58	74.55	46.7
	BONNET	ET NORMALI 0 ZED	0.36	0.045	0.197	0.031	0.022	0.897	0.005	0.02	0.02	0.009	0.526	0.011	32	58	74.55	46.7
												77	. 77					

-



Page 2 of 2

8/7/2019 4:37:14 PM

EN-10204-3.1

TEST REPORT (EN 10204 - 2.1)

Valve Item STUD SEAT NUTS NUTS BOLT DISC ASTM-A105/A106+CoCr ASTM-A193 B8M CL.1 ASTM-A217 CA15 ASTM-A194 8M ASTM-A193 B7 ASTM-A1942H Specification

All Velan Valves are tested in accordance with specification required by the design. Valves designed to API specifications API 594, API 600, API 602, API 603, API 608, API 609 and API 623 are tested to API 598. Valves designed to B16.34 are tested to B16.34 and MSS-SP-61.

All materials are dually certificable to ASTM / ASME.

accuracy of the data. The header information on this certificate (including customer name, valve description, figure number, and quantity) has been entered by the user of this application and he/she is therefore responsible for the

Velan certifies that valve(s) described above are in compliance with the requirements of the identified standards and specifications. This report is based on actual test results of chemical and mechanical properties as well as hydrostatic test, and is in compliance with EN 10204 3.1.

Victor Apostolescu Vice President, QA



### ALCO FLOW CONTROL

### ASME VALVE MODIFICATION

QF 704 Rev 0

4905-72 Avenue, Edmonton, Alberta T6B 2M6 PHONE: (780) 440-4560

### INSPECTION & TEST REPORTS

H	I OD ZI	, Thom	L. (780) 440-4300		11 46	JI DC I	1014 66 1	LOI I	CLI OICIB					
CUSTOMER			Aug 13	/ 2019	J(	OB#	73674	4-1	I.D.	Ħ	1	as	listed	
SIZE   2"   ENDS   RF   RATING   600			Sun	belt								502	73-00	
MATERIAL   BODY														
BODY	MA						RF		RATIN		L	1	500	
H		BODY		,						M/ DISC	SEAT		CR13/H	F/HF
2   70183   8NH02C07   BNH02C07   2225   NA   1650   0   80   0   60120   X   SHARI		#								1		ACC	REJ	TESTEI
3 4 5 5 6 6 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1	70182	BNH01D13	BNH02C07	2225	NA	1650	0	80	0	60/120	X		SHARM
4	2	70183	BNH02C07	BNH02C07	2225	NA	1650	0	80	0	60/120	X		SHARM
S 6 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3													
6 6 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4													
7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	-							-						
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	_						-					-		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					-		-							ļ
0   1   2   3   4   4   5   5   7   7   7   7   7   7   7   7	9											-		
1   2   3   4   5   5   6   7   7   7   7   7   7   7   7   7	10													
2   3   4   5   5   5   5   5   5   5   5   5	11					-						-		
3   4   5   5   5   5   5   5   5   5   5	12													-
TEST PRESSURE IS IN PSI:  TEST REQUIRED:  SHELL YES BACKSEAT YES H.P. CLOSURE YES L.P. CLOSURE YES INSPECTED BY:  ENDS COVERED PAINTING APPEARANCE TAGGING QUANTITY 2 M.T.R TRACKING PAPERWORK PAPERWORK PACKAGED INSPECTOR:  WORK PERFORMED:  TEST REQUIRED:  ENDS COVERED PAINTING APPEARANCE TAGGING PAPERWORK PACKAGED PACKAGED PACKAGED PAPERWORK PACKAGED PA	13						<b></b>			-				
TEST PRESSURE IS IN PSI:  TEST REQUIRED:  SHELL YES BACKSEAT YES H.P. CLOSURE YES L.P. CLOSURE YES  INSPECTED BY:  ENDS COVERED  QUANTITY  QUANTITY  2 M.T.R TRACKING  PAPERWORK  PAPERWORK  INSPECTED BY:  EDWARD CHANG  CUSTOMER INSPECTOR:  PAPERWORK  PACKAGED  PACKAGED  INSPECTED BY:  EDWARD CHANG  CUSTOMER INSPECTOR:  CUSTOMER INSPECTOR:  OTHER  TAGGING  PACKAGED  PACKAGED  PACKAGED  APPEARANCE  PACKAGED  PACKAGED  TAGGING  PACKAGED  FACKAGED  TAGGING  APPEARANCE  PACKAGED  PACKAGED  TAGGING  APPEARANCE  PACKAGED  FACKAGED  FACKAGED  TAGGING  APPEARANCE  PACKAGED  FACKAGED  FACKA	14									<u> </u>		-		1.0
TEST PRESSURE IS IN PSI:  TEST REQUIRED:  SHELL YES BACKSEAT YES H.P. CLOSURE YES L.P. CLOSURE YES  INSPECTED BY:  ENDS COVERED  PAINTING  APPEARANCE  TAGGING  OUSTOMER INSPECTOR:  PACKAGED  PACKAGED  INSPECTED BY:  EDWARD CHANG  CUSTOMER INSPECTOR:  PAPERWORK  PACKAGED  INSPECTED BY:  WORK PERFORMED:  CHECKLIST:  GAMBER OF HUSKY Cat.3 testing erlay clapper with stellite using weld procedure AMW-6-HF Rev.1 semble and Hydro test as per API 598	15											+		
TEST REQUIRED: SHELL YES BACKSEAT YES H.P. CLOSURE YES L.P. CLOSURE YES  INSPECTED BY: EDWARD CHANG CUSTOMER INSPECTOR:  CHECKLIST: QUANTITY 2 M.T.R TRACKING > PAPERWORK PACKAGED  INSPECTED BY: EDWARD CHANG CUSTOMER INSPECTOR:  WORK PERFORMED:  CHECKLIST: OUT OF THE STANDARD CHANG CUSTOMER INSPECTOR:  CHECKLIST: OUT OF THE STANDARD CHANGE CUSTOMER INSPECTOR:  CHECKLIST: OUT	TE	ST DDESCIID	E IS IN DOI.	TEST CO	DDE:		yes			М	SS.SP.61		OTHER	
INSPECTED BY:  ENDS COVERED  PAINTING  APPEARANCE  QUANTITY  M.T.R TRACKING  PAPERWORK  PACKAGED  INSPECTED BY: WORK PERFORMED:  EDWARD CHANG  CUSTOMER INSPECTOR:  CUSTOMER INSP	T.C.			SHELL	YES	BAC	CKSEAT		H.P. CLOS	SURE	yes	L.P. C	LOSURE	ves
CHECKLIST:    QUANTITY   2   M.T.R TRACKING   PAPERWORK   PACKAGED		INCRECTI	ID BV.	EDWA	DD CHA	NG.	GUIGRIO							
CHECKLIST:  QUANTITY  2 M.T.R TRACKING > PAPERWORK  PACKAGED  INSPECTED BY: WORK PERFORMED:  Cassemble Ind body and bonnet for Husky cat.3 testing Independent of the stellite using weld procedure AMW-6-HF Rev.1  Semble and Hydro test as per API 598  G-30  G-44		INSI ECTI	В Б1 .	EDWA	KD CHA	NG	CUSTON	MER INS	PECTOR:					
QUANTITY 2 M.T.R TRACKING PAPERWORK PACKAGED  INSPECTED BY: EDWARD CHANG CUSTOMER INSPECTOR:  WORK PERFORMED:  Sassemble and body and bonnet for Husky cat.3 testing erlay clapper with stellite using weld procedure AMW-6-HF Rev.1 semble and Hydro test as per API 598  G-30 G-44	СНЕ	CKLIST:	ENDS CO	VERED	/	PA	INTING	×	APPEAR	ANCE	1	TAG	GGING	J,
WORK PERFORMED:  Sassemble Ind body and bonnet for Husky cat.3 testing  erlay clapper with stellite using weld procedure AMW-6-HF Rev.1  semble and Hydro test as per API 598  G-30  G-44		, creation	QUAN	TITY	2	M.T.R	FRACKING	~	PAPERW	ORK	V	PAC	KAGED	V
WORK PERFORMED:  Sassemble Ind body and bonnet for Husky cat.3 testing  erlay clapper with stellite using weld procedure AMW-6-HF Rev.1  semble and Hydro test as per API 598  G-30  G-44		W-M-1		***				1				1		
sassemble nd body and bonnet for Husky cat.3 testing erlay clapper with stellite using weld procedure AMW-6-HF Rev.1 semble and Hydro test as per API 598 G-30 G-44				EDWA	RD CHA	NG	CUSTON	MER INS	PECTOR:					
nd body and bonnet for Husky cat.3 testing erlay clapper with stellite using weld procedure AMW-6-HF Rev.1 semble and Hydro test as per API 598 G-30 G-44	V	VORK PERF	ORMED:											
nd body and bonnet for Husky cat.3 testing erlay clapper with stellite using weld procedure AMW-6-HF Rev.1 semble and Hydro test as per API 598 G-30 G-44														
erlay clapper with stellite using weld procedure AMW-6-HF Rev.1 semble and Hydro test as per API 598 G-30 G-44			nnot for Hughy	ant 2 tentine						_				
semble and Hydro test as per API 598  G-30  G-44	voria	v clanner wi	th stallite usin	a wold proce	duro All	AN C LIE	David.							
G-30 G-44	ssem	ble and Hvd	ro test as ner	API 508	dure An	// VV-0-0-	Rev.1							
G-44														
G-44														
	TG-30	)												
GNATURE Extract	TG-44	4												
GNATURE Extract														• • • • • • • • • • • • • • • • • • • •
Educ														The second
Police -	GNA	TURE	1											
			Educ											
			· · · · · · · · · · · · · · · · · · ·											
														<u> </u>



### HARDNESS TESTING REPORT

2450-80 Ave, Edmonton, Alberta T6P1N2 Phone:(780)469-8333 Fax:(780)469-8884

HT# 51976

Client Representative (Print):			Sign:			Da	ate:			
The above interpretation is a profes	sional opin	ion; final interp	retation is the respon	nsibility of the	client.					
Technician Bill Parry	32	SN	T/CGSB Level			Assist	ant			
Interpretation is done in accordance	with the s	pecified standa	O.T. hrs ard, to the best of my	professional	ability.					
	IME IN	TIME OUT	S.T. hrs		MAN DAY		EALS		4 hits	
A.M.	P.N	VI.	TOTAL HOURS	KMS	SUBS	SISTENCE		CONS	UMABLES	S
		WW. 1								
				_						
		-0							-	
					-				ļ	
										-
								-		
				127		1				
Bonnet,	Heat #: f	BNH02C07		167	Ţ.				<b>✓</b>	
		NH01D13		153					✓	
·	<u>V2</u>									
Bonnet,		BNH02C07		161					✓	
		NH02C07		162					<b>√</b>	
	<u>V1</u>									
	Descripti	ion		PM	HAZ	WM	HAZ	PM	1	X
TEST EQUIPMENT: Instrument: Krautkramer		Model: hed drawings	Mic 10	Serial Sheets s	No. 3410	1-5800 C		May 9, Supplem	2019	
EXAMINATION CONDITIONS:					☐ Machine	ed 🗆 Pa	— sinted Γ	☐ Shot Bla	asted	15°C
Description:			Swing Check	Valve		=	_			
Acceptance Standard		ky Cat. C		000.0.			_ W.O		3674-1	
Examination Standard		M A1038		Scale: E	Brinnel		P.O.		3300	
Location:			logies Inc.				JOB	#· 51	976	
Date: Client:	Alco	ust 12, 20	19				_ Page	1	of	3
Doto:	Λ	101 17 70	10				Dage	\ 1	O.F	-2



2450-80 Ave, Edmonton, Alberta T6P1N2 Phone:(780)469-8333 Fax: (780)469-8884

TECHNOLOGIES IN	C				PORT#:	_		VIT IV	7
TECHNOLOGIES IN	0.			MT		LT [		VT 🗵	7
Date:	August 12, 201	9				Page	_1 c	of	3
Client:	Alco Inc.								
Location:	Rivest Technol	ogies Inc.				JOB #:	51976	5	
Examination Standard	ASME V Art. 7	& 9				P.O. #:	93300	)	
Acceptance Standard	ASME B16.34	Appx. II, Husk	y Cat. C			W.O. #	73674	-1	
Description:	Qty. (2) - 2" 600								
EXAMINATION CONDITIONS:			Machir     Ma	terri i <del>na</del> actalizator			nspection T	emp: 1	5°C
Minimum Light Requirements: Fluo EQUIPMENT SE	rescent = Blacklight m ERIAL NO.	in 1000uW/cm2 Vis		le Light: min100		m surface	ST MEDIU	M	
☐ Hand Yoke Magnaflux Y-6		⊠ AC		Water Washable		☑ Wet: Ba			
⊠ Blacklight Spectroline Bl	B 150P	□ DC		Solvent Remova	able	Dry: Ma			
	R-1000 SN:1821145	☐ Continuous		ell Time 10	_ min	Contras			′-2
MTO	9/13/18, 9/13/19 Daily Check ✓	□ Residual □ 10#bar TB0		elop Time10 pretation Time <u>10</u>	_ min	Bath: M	agnaliux 7	ПГ	İ
Rivest Procedure: VT1 Revision. 0	Lighting: LED	⊠ 10#bar 1600	JIS Inter	pretation Time It	2 111111	Datcii #.			
EXAMINATION:									
Viewel and wat fluoreses		tiala avendinati		a norformos	ام ما	l aaaaaaih	olo oron	000	
Visual and wet fluoresce	ent magnetic pan	ticie examinati	ons wer	e periormed	a on ai	accessic	ne areas	SOII	
the following:									
Qty. (2) - 2" 600# Velan	Swing Check Va	alve							
V1	Owing officer ve	2110							
Body HT#: BNH02C07									
Bonnet HT#: BNH02C07	7								
Boillet 111#. Bivi 102007									
V2									
Body HT#: BNH01D13									
Bonnet HT#: BNH02C07	7								
Bollifet 111#. Biti 102001									
RESULTS:									
NEGOLIG.									
No rejectable indications	s were noted du	ring examination	าท						
Valves are acceptable to			JII.						
valves are acceptable to	The above stan	idalds.							
This Certificate or Report is valid only for that work	which was appointed by sequents	The company is not seen	anaible for any				0.1 1. 1.1.1		
contract terms or reference. All Certificates and/o will not be responsible for deviation within the norr	r Reports are the result of work of	performed in conformance wi	th applicable so	ecifications and standa	irds to the he	et of our ability and	Intent Howev	er the Cr	omnany
A.M.	P.M.	TOTAL HOURS	KMS	SUBSIST			CONSUMAI		
	E IN TIME OUT	S.T. hrs		MAN DAY	OT/ME				
Interpretation is done in accordance v	with the specified standa	O.T. hrs	rofessional	ability					
le 1	1)								
Technician Jeff Kinsella  The above interpretation is a professi	SNI		CGSB # 852 sibility of the		Assista	nt			
					200				
Client Representative (Print):		Sign:			Date	e:			



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RT#: 51976

Date:
Client:

August 9, 2019

Alco Inc.

JOB #:

51976

Page 1 of 3

Location: Rivest Technologies Inc.

P.O. #:

93300

Description: Qty. (2) - 2" 600# Velan Swing Check Valve

IF IP UC	FECT LEC - INCOMPLE - INCOMPLE - UNDERCI - SLAG/SAN	ETE FUSION ETE PENETRATIO UTTING	IN BT	= Accep - POROSIT - BURN T - INTERN. C - LOW CO	TY THROUGH AL CONC	I AVITY	C - CF AB - A	HOLLO	W BEAD IRNS (AGE	A	SEVER AS PER ASTM E Radiogr	R E446	1 - SIN 2 - DO 3 - SIN	UBLE W	ES ALL EXPOS ALL EXPOS ALL VIEWIN	SURE	1 - AS 2 - AS 3 - AS	E LEGEND  ME B31.3 NORMAL 5 - ASME B16.3  ME B31.3 SEVERE 6 - CSA Z 662  ME VIII DIV 1 UW51 7 - Husky Cat. (  ME VIII DIV 1 UW52 8 - SCL L37 Ca	0
	FILM NO.	LOCATION	DIA.	THK.	SOD	SYM	1F	IP	IC	UC	S	Р	SH	T	PROC #	CODE #	V	REMARKS	X
1	X#															- "		WO#: 73674-1	
2																			-
3										15							+	Body Heat #: BNH02C07	-
4	V1																1	Bonnet Heat #: BNH02C07	-
5	X1	Body	2"	600#	24"										2/4	5/7	1	Bornier reat #. Bivi 102C07	-
6	X2	Body	2"	600#	24"							1			2/4	5/7	1		-
7														-		0,,	-		-
8																		Body Heat #: BNH01D13	-
9	V2														-			Bonnet Heat #: BNH02C07	-
10	X1	Body	2"	600#	24"							1			2/4	5/7	1	Donnet Fleat #. DIVI 102C07	
11	X2	Body	2"	600#	24"							1			2/4	5/7	1		
12															217	3/1	ľ		
13											-								-
14									-										
15																			-
16																			
17																			
18											-			b 533					-
19									-							-			
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21											-		-						
22						1					+								
23											+								
24												-							
25										-	+	-							_
26					- 11			+			$\dashv$	+							
27										+	$\dashv$	+							
No.	Of Exp.	Film Bran		Screen Type &		No. of F			ype of		Phys	sical	Size	Mat	erial	0	FD	IQI	4

o. Of Exp.	Film Brand & Design	Screen Type &	No. of Film per	Type of	Physical Size	Material	OFD	IC	QI .
		Thickness	Cassette	Energy				Туре	Size
4	Kodak	0.010" Pb	1	IRI92	<0.12"	P1	600#	ASTM	В

This Certificate or Report is valid only for that work which was specifically requested. The company is not responsible for any views or opinions expressed by employees performing this work which fall outside the contract terms or reference. All Certificates and/or Reports are the result of work performed in conformance with applicable specifications and standards to the best of our ability and intent. However, the Company will not be responsible for deviation within the normal limits of accuracy in accordance with the standard practices. Final Code Acceptance shall require Client and Manufacturer Representative's signatures.

TIME IN TIME OUT		P.M.		TOTAL HOURS		KMS	SUBSI	STENCE	FILM	
THVIE HY	TIME OUT	TIME IN	TIME OUT	S.T.	hrs		MAN DAY	OT/MEALS	4 - 14" x 17"	
Tiles leter of C				O.T.	hrs			OTHERALO	4-14 X 17	
-IIII Interpretatio	n is done in accord	dance with the si	pecified code to t	he heet of m	v profoncion	-1 - 5 HH.				

de, to the best of my professional ability. Man & Rint

Radiographer Daryl Riv		SNT/CGSB Level	II CGSB # 6202	Assistant	Adam
am in full agreement with the	professional opinion, final film in	terpretation is the responsib	ility of the client.		7,0011)
and a ground with the	contents of this report and acce	ept receipt of the associated	film. Client Representative: _		



2450-80 Ave, Edmonton, Alberta T6P1N2 Phone:(780)469-8333 Fax:(780)469-8884

RT#: 51976

Data	
Date:	

27

Client:

August 9, 2019

Alco Inc.

JOB #:

X = Reject

51976 93300 Page

of 3

DEFECT LEGEND

Location: Rivest Technologies Inc.

√ = Accept

P.O. #:

Description: Qty. (2) - 2" 600# Velan Swing Check Valve

IF IP U(	EFECT LE - INCOMPL - INCOMPL - UNDER( - SLAG/SAI	ETE FUSION ETE PENETRATION CUTTING	BT IC	- Accep POROSIT - BURN T - INTERN - LOW CO	TY THROUGH AL CONC		X = R HB - H C - CR AB - A SH - S	IOLLO\ !ACK	RNS	D	AS PER ASTM E446		PROCEDURES  1 - SINGLE WALL EXPOSURE 2 - DOUBLE WALL EXPOSURE 3 - SINGLE WALL VIEWING 4 - DOUBLE WALL VIEWING		CODE LEGEND  1 - ASME B31.3 NORMAL 2 - ASME B31.3 SEVERE 3 - ASME VIII DIV 1 UW51 4 - ASME VIII DIV 1 UW52 8 - SCL L37 Cat.3		0		
	FILM NO.	LOCATION	DIA.	THK.	SOD	SYM	IF	IP	IC	UC	S	Р	SH		PROC #	CODE #	V	REMARKS	X
1	X#														"			WO#: 73674-1	1
2																			
3		J																Body Heat #: BNH02C07	
4	V1														1			Bonnet Heat #: BNH02C07	_
5	X1	Body	2"	600#	24"										2/4	5/7	1	Bollinet Fleat #. BIVI 102C07	-
6	X2	Body	2"	600#	24"							1			2/4	5/7	1		+
7																0,,			-
8																		Body Heat #: BNH01D13	
9	V2																	Bonnet Heat #: BNH02C07	-
10	X1	Body	2"	600#	24"							1		====	2/4	5/7	1	Donnet Fleat #. DINHUZCU/	
11	X2	Body	2"	600#	24"							1			2/4	5/7	1		-
12															2/4	311	-		-
13																			
14										-									
15								$\dashv$						_					
16																			
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22							-	-			-								
23				-+						-		-	-	_					
24					-			-+											
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26									-		-								
+									- 1	. 0			_	14				222 37	

No. Of Exp.	Film Brand & Design	Screen Type & Thickness	No. of Film per	Type of	Physical Size	Material	OFD	IQI	
			Cassette	Energy				Туре	Size
4	Kodak	0.010" Pb	1	IRI92	<0.12"	P1	600#	ASTM	B

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A.M.		P.M.		TOTAL HOURS		ICES. MINAL COOL	e Acceptance shall require Client and Manufacturer Representative's signatur				
TIME IN	TIME OUT					KMS	SUBSISTENCE		FILM		
THE IT	THVIL OUT	TIME IN	TIME OUT	S.T.	hrs		MAN DAY	OT/MEALS	4 - 14" x 17"		
Film Interpretation	is done is asset			O.T.	hrs			OTHERIES	4-14 X 17		

ordance with the specified code, to the best of my professional ability. Man & Rint

Radiographer Daryl Rivest	SNT/CGSB Level	II CGSB # 6202	20020E-17	7.0	
The above interpretation is a professional opinion, final film into	Old 17000b Level	11 CGSB # 6202	Assistant	_Adam	
am in full agreement with the contents of this report and acce	of responsibility of the responsibility	lility of the client.			
o and the contents of this report and acce	prireceipt of the associated	film. Client Representative: _			