

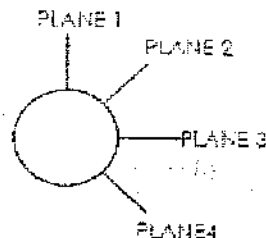
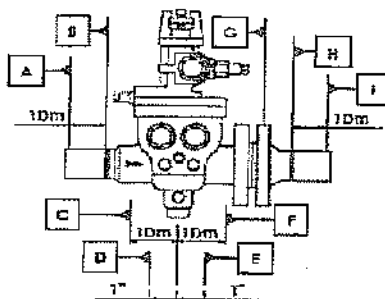


CANALTA CONTROLS LTD.

Meter Tube / Orifice Fitting Inspection Report

FITTING: Part Number 690RDC0480-L00WF Serial Number D060751 Date May 28/09
Body Heat Number 2813F Top Housing Heat Number 10805 Overall Length 116 3/8"
Line Size 6" Schedule 80 ANSI Class 900 Flange Type RF xW Material LCC

METER TUBE: Part Number _____
Overall Length 27 1/4 U/S Length 54 D/S Length 43 1/4 Plate To Conditioner/Vanes 48



INSPECTED TO:

AGA 3 2nd EDITION (85 Ed.) ☐

AGA 3 4th EDITION (00 Ed.) ☒

5-761

METER TUBE / ORIFICE FITTING INTERNAL DIAMETER:

PLANE	UPSTREAM POINTS				DOWNSTREAM POINTS					
	A	B	C	D	E	F	G	H	I	
1	5.771	5.771	5.759	5.759	5.759	5.760	5.764	5.763	5.758	
2	5.762	5.758	↑	↑	↑	↑	↑	5.760	5.773	
3	5.768	5.760	↓	↓	↓	↓	↓	5.762	5.765	
4	5.773	5.770						5.773	5.762	
AVERAGE			5.759	5.759	5.759	5.760	5.764			
TEMP.	66.6	68.4	71	72	72	72	71.4	72.5	70.7	
ROUGHNESS			100	100	100	100				
INT.	JR	JR					MM	MM	MM	
O.C.	MM	MM	JW	JW	JW	JW	MM	MM	MM	

PRESSURE TAP TESTS:

0.375" ☐

0.500" ☒

	TOP				BOTTOM			
	U/S RIGHT	U/S LEFT	D/S RIGHT	D/S LEFT	U/S RIGHT	U/S LEFT	D/S RIGHT	D/S LEFT
TAP SIZE	PASS	PASS	PASS	PASS				
TAP LOCATION	+6	+2	-9	-14				
PRESSURE TEST	PASS	PASS	PASS	PASS				

INSPECTOR JW

ECCENTRICITY:

	RIGHT	LEFT		TOP	BOTTOM
HORIZONTAL			VERTICAL		
HORIZONTAL TOLERANCE	0.017		VERTICAL TOLERANCE	0.070	
HORIZONTAL ECC.	0.005		VERTICAL ECC.	0.005	

INSPECTOR JW

PLATE SEAL GAP AND ORIFICE PLATE:

Plate Seal Gap 0.562" ☒ 0.688" ☐ 0.613" ☐ 0.875" ☐

	Top	Bottom	Right	Left
SEAL GAP WIDTH	PASS	PASS	PASS	PASS
ORIFICE PLATE THICKNESS				
PLATE WITH SEAL				

INSPECTOR JW

Plate Carrier Width 8.313

Plate Carrier Height 8.900

Orifice Plate Heat Number A1903340

Orifice Plate Bore 3.000

Orifice Plate Material 304SS

Edge Sharpness Sharp ☒ Dull ☐

Inspector BL

HYDRO TEST RESULTS:

Station 8

Test Pressure (PSI) 3350 Duration (minutes) 60 Technician BL Witness JV PASS ☒ FAIL ☐

PNEUMATIC TEST RESULTS:

Station 8

Test Pressure (PSI) 1000 Duration (minutes) 15 Technician BL Witness JV PASS ☒ FAIL ☐

BLANK PLATE SEAL TEST RESULTS:

Maximum Pressure/Vacuum Applied -1515

Station

Vacuum applied to D/S ☒ Pressure Applied to U/S ☐ PASS ☒ FAIL ☐ Technician BL Witness JV

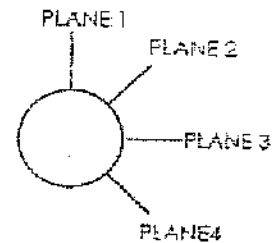
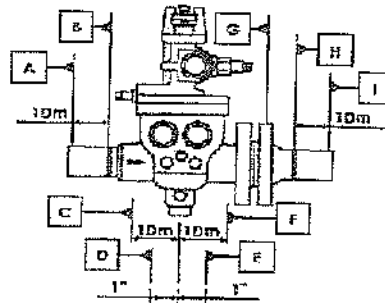


CANALTA CONTROLS LTD.

Meter Tube / Orifice Fitting Inspection Report

FITTING: Part Number _____ Serial Number _____ Date _____
Body Heat Number _____ Top Housing Heat Number _____ Overall Length _____
Line Size _____ Schedule _____ ANSI Class _____ Flange Type _____ Material _____

METER TUBE: Part Number _____
Overall Length _____ U/S Length _____ D/S Length _____ Plate To Conditioner/Vanes _____



INSPECTED TO:

AGA 3 2nd EDITION (85 Ed.) ☐

AGA 3 4th EDITION (00 Ed.) ☐

METER TUBE / ORIFICE FITTING INTERNAL DIAMETER:

PLANE	UPSTREAM POINTS				DOWNSTREAM POINTS				
	A	B	C	D	E	F	G	H	I
1									
2									
3									
4									
AVERAGE									
TEMP.									
ROUGHNESS									
INT									
Q.C.									

PRESSURE TAP TESTS:

0.375" ☐	TOP				BOTTOM			
0.500" ☐	U/S RIGHT	U/S LEFT	D/S RIGHT	D/S LEFT	U/S RIGHT	U/S LEFT	D/S RIGHT	D/S LEFT
TAP SIZE								
TAP LOCATION								
PRESSURE TEST								
INSPECTOR								

ECCENTRICITY:

	RIGHT	LEFT		TOP	BOTTOM
HORIZONTAL			VERTICAL		
HORIZONTAL TOLERANCE			VERTICAL TOLERANCE		
HORIZONTAL ECC.			VERTICAL ECC.		
INSPECTOR					

PLATE SEAL GAP AND ORIFICE PLATE:

Plate Seal Gap	0.562" ☐	0.688" ☐	0.813" ☐	0.875" ☐
	Top	Bottom	Right	Left
SEAL GAP WIDTH				
ORIFICE PLATE THICKNESS				
PLATE WITH SEAL				
INSPECTOR				

Plate Carrier Width _____
Plate Carrier Height _____
Orifice Plate Heat Number _____
Orifice Plate Bore _____
Orifice Plate Material _____
Edge Sharpness Sharp ☐ Dull ☐
Inspector _____

HYDRO TEST RESULTS:

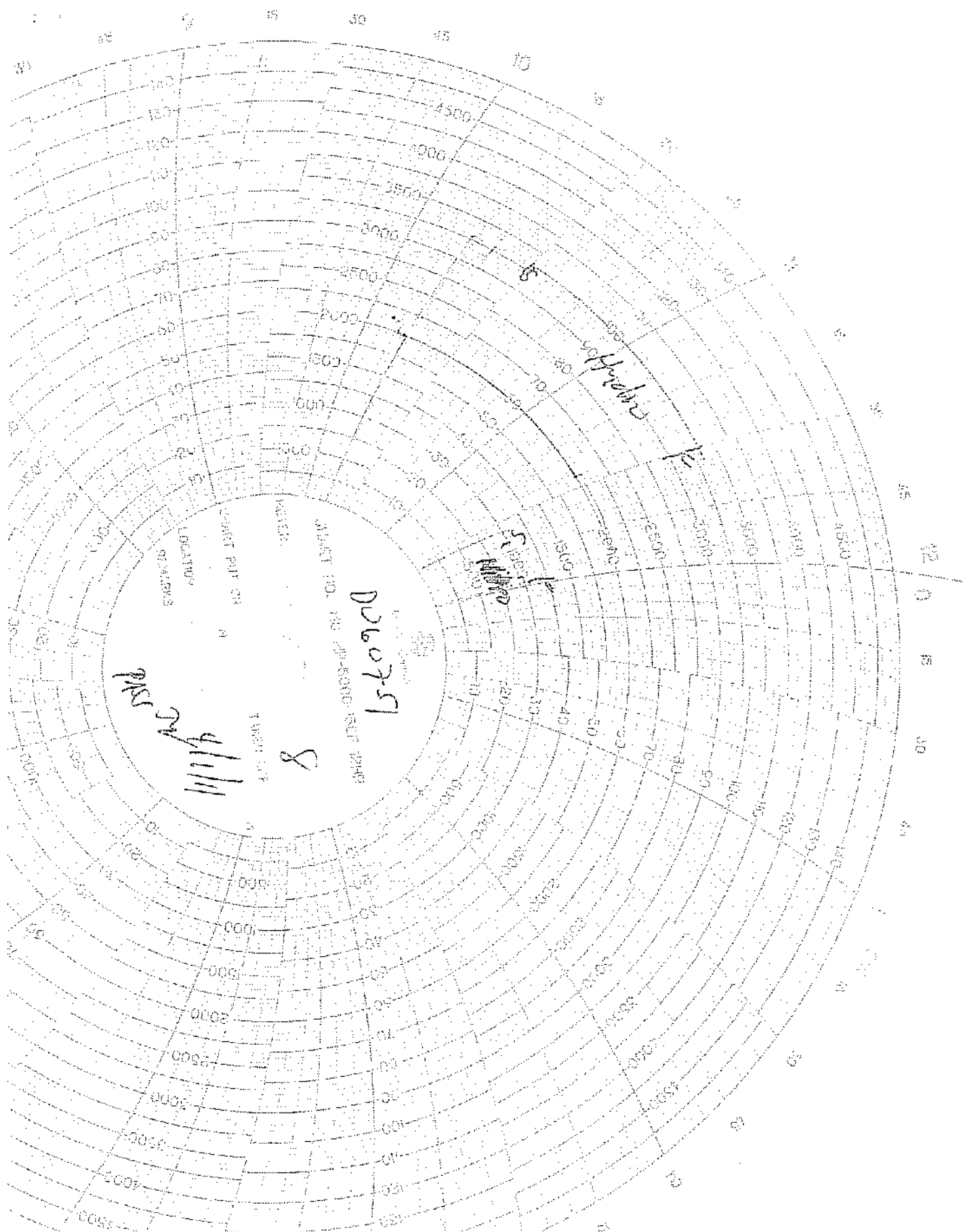
Test Pressure (PSI) 3730 Station 8 Duration (minutes) 60 Technician JV Witness PP PASS ☒ FAIL ☐

PNEUMATIC TEST RESULTS:

Test Pressure (PSI) 1000 Station 8 Duration (minutes) 15 Technician JV Witness PP PASS ☒ FAIL ☐

BLANK PLATE SEAL TEST RESULTS:

Maximum Pressure/Vacuum Applied 1729 Station _____
Vacuum applied to D/S ☐ Pressure Applied to U/S ☒ PASS ☒ FAIL ☐ Technician JV Witness PP





Canalta Controls Ltd.
5770-55 Ave
Red Deer, AB T4P 1A6
Canada
Ph: (403) 342-4494
Fax: (403) 348-7410
email: canalta@canaltacontrols.com

DUAL CHAMBER ORIFICE FITTING DATASHEET

GENERAL	1	TAG NO.		
	2	LINE NO.		
	3	LINE SIZE/SCH.		6" SCH80 ✓
	4	DESIGN STANDARD		API 14.3/AGA 3 4th (2008) Ed, Part 2 ✓
	5	QUANTITY		1 ✓
ORIFICE PLATE	6	MATERIAL		304SS ✓
	7	THICKNESS	IN	0.125 ✓
	8	BETA (β) = d/D (Installed)		0.62 ✓
	9	BORE DIA "d"	IN	3.000 ✓
	10	MAX ALLOWABLE BETA (β) = d/D		0.75 ✓
	11	MAX ALLOWABLE ORIFICE BORE DIA "d"		IN 4.250 ✓
ORIFICE FITTING	12	VENT	DRAIN	No No
	13	SEAL RING	MATERIAL	K-STYLE 316SS ✓
	14	PLATE HOLDER MATERIAL		4130 Carbon Steel ✓
	15	BODY MATERIAL		A216 WCB ✓
	16	BODY SIZE & RATING		5" 900RF ✓
	17	SEAL GAP		0.562" ✓
	18	TRIM MATERIAL		4130 Carbon Steel ✓
	19	BODY STYLE		Flange x Weld ✓
	20	SEAT STYLE		Grease ✓
	21	TAP HOLE DIA	IN	0.5 ✓
	22	INSIDE DIAMETER	IN	5.781 ✓
	23	STUD BOLT MATERIAL		A193 B7M ✓
	24	NUT MATERIAL		A194 2HM ✓
	25	DESIGN STANDARD		B16.34-2008 ✓
METER TUBE	26	TAP LOCATION		1,000" From Flange Face ✓
	27	TAP CONNECTION STYLE		1/2" NPT ✓
	28	SHAFT ORIENTATION		LEFT RIGHT ✓
	29	NO. OF TAPS		4 ✓
	30	TUBE MATERIAL		A106B ✓
	31	OUTER CONNECTIONS		6" 900RF ✓
	32	FLANGE MATERIAL		A106B ✓
	33	STUD BOLT MATERIAL		A193 B7M ✓
	34	FLOW CONDITIONER	TYPE/MATERIAL	Yes CPA 60E/316SS ✓
	35	CONDITIONER/VANE CONNECTION		6" 900RF ✓
SERVICE CONDITIONS	36	NUT MATERIAL		A194 2HM ✓
	37	GASKET MATERIAL		304SS Flexible Gasket ✓
	38	DESIGN STANDARD		B31.3-2008 ✓
	39	FLUID AND STATE		
	40	CORROSIVE COMPONENT		
	41	MIN FLOW : MAX FLOW :		
	42	NORMAL FLOW :		
	43	INLET PRESS. (PSIG)	DESIGN PRESS. (PSIG)	
	44	MAX DIFFERENTIAL " W.C.		
	45	DESIGN TEMP °F	OPERATING TEMP. °F	

Customer: Flint Process
Customer PO#:
Ref:

Quote #: SQ1378
SHT. 1 of 1
WO #:
Line ID: 1

Drawing:	DCA-FC-F	
DIMENSIONS (INCHES)	OAL	127
	UL1	36
	UL2	48
	DL	43
	N1	43
N2	9	
N3	0	
N4	0	
Overall Length Tolerance +/- 1/4"		

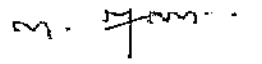
Non-Destructive Testing
Radiography 10% (by shop rate)
ASME B31.3 Normal
MPI No
Liquid Penetrant No
Hardness No
Hydrotest (PSIG) 1 Hour @ 3330
Corrosion Allowance 0
FWHT No
CWP (PSIG) 2220
WPS
☒ CGL-4M (RULT-FCAW)
☐ CGL6 (Low Temp-SMAW)
☐ CGL6 (Reg Temp-SMAW)

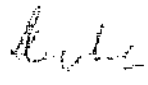
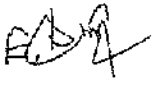
Applicable Customer Specs:
None
RIGHT HAND.

CONNECTIONS	STYLE	N1	N2	N3	N4
	SIZE	T.O.L.	T.O.L.		
	RATING	3000#	3000#		
	ORIENTATION	0°	0°		
	MATERIAL	A106B	A106B		

Rev	Description	By	Date
0	Issued For Construction	IDMC	8-Mar-2011

CUSTOMER APPROVAL
Signature: *[Signature]*
Printed Name: ANDREW M.

	FLOW LINK SYSTEMS (P) LTD FOUNDRY UNIT-II 65 / 2 - A, B & C, PUDUPALAYAM B.P.O AVINASHI TK, COIMBATORE - 641 654 INDIA.		TEST CERTIFICATE (EN 10204 - 3.1)		TC NO : G-2487 DATE : 03.04.09						
	CUSTOMER TRADEWIND PARTS CORP., UNIT #1, 6759- 65, AVENUE, RED DEER, ALBERTA-T4P 1X5, CANADA.		SPECIFICATION REFERENCE 1. ASTM A352-06 Gr.LCC 2. NACE MR 0175		MELT NO./ DATE OF POURING 2813F / 06.12.08 FOUNDRY MARK FLS						
PURCHASE ORDER NO. Tag No. - 11132			ORDER ACCEPTANCE NO. 08 - 703-A1								
CHEMICAL COMPOSITION %											
SPECIFICATION	C	SI	S	P	Mn	Ni	Cr	Mo	V	Cu	*RE
Minimum	--	--	--	--	--	--	--	--	--	--	--
Maximum	0.25	0.60	0.045	0.040	1.20	0.50	0.50	0.20	0.03	0.50	1.0
Achieved	0.18	0.34	0.012	0.016	0.91	0.29	0.06	0.01	0.005	0.05	0.41
HEAT TREATMENT QUENCHING: Temperature raised to 920°C, Soaked for 4 hours and then water-quenched. TEMPERING: Temperature raised to 680°C, Soaked for 8 hours and then atmospheric air-cooled.											
MECHANICAL PROPERTIES											
SPECIFICATION	Y.S. (KSI)	UTS (KSI)	% ELONG. in 50mm (4d) / in 50mm (5d)	% RED IN AREA	NOTCH TOUGHNESS		BEND TEST		HARDNESS (BHN)		
					(at - 46 ° C) J Values	Avg.	ANGLE	D			
Minimum	40	70	22	35	16	20	--	--	--		
Maximum	--	95	--	--	--	--	--	--	237		
Achieved	54.1	74.9	34.0	71.5	18, 18, 24	20.0	--	--	145		
DETAIL OF CASTINGS											
SNO.	DESCRIPTION			DRAWING NO / REV.		PART NO		POURED QTY			
1	6" MODEL DC BODY			690RJDC04 / 3		--		02			
REMARKS : 1. The above stated KSI values have been calculated based on original tested N/AISI values. 1. RE* = Ni + Cr + Mo + V + Cu											
CERTIFIED THAT 1. THE ABOVE GIVEN DETAILS ARE CORRECT. 2. THE MATERIAL CONFORMS TO ABOVE SPECIFICATION. THE PARTS WERE MANUFACTURED, TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND CERTIFIED IN ACCORDANCE WITH EN 10204 3.1					 M. AYYAPPAN QUALITY ASSURANCE MANUFACTURER'S AUTHORIZED INSPECTOR						
Prepared by : MP / -		Checked by : Chemist									

	FLOW LINK SYSTEMS (P) LTD FOUNDRY UNIT-II 65/2-A,B & C, PUDUPALAYAM B.P.O AVINASHI TK, COIMBATORE- 641 654. INDIA.		TEST CERTIFICATE (EN 10204-3.1)		TC NO : G-4922 DATE : 22-Jul-09						
	CUSTOMER TRADEWIND PARTS CORPORATION, UNIT #1, 6759- 65, AVENUE, RED DEER, ALBERTA-T4P 1X5, CANADA		SPECIFICATION REFERENCE 1. ASTM A216-87 Gr.WCB 2. NACE MR 0175		MELT NO / DATE OF POURING 1080G / 16.04.09 FOUNDRY MARK FLS						
PURCHASE ORDER NO Tag No. - 11924			ORDER ACCEPTANCE NO 08-885-A8								
CHEMICAL COMPOSITION %											
SPECIFICATION	C	Si	S	P	Mn	Ni	Cr	Mo	V	Cu	*RE
Minimum	--	--	--	--	--	--	--	--	--	--	--
Maximum	0.30	0.60	0.045	0.04	1.00	0.50	0.50	0.20	0.03	0.30	1.00
Achieved	0.19	0.42	0.018	0.021	0.94	0.28	0.10	0.030	0.002	0.03	0.44
HEAT TREATMENT: NORMALISED: Temperature raised to 920°C, Soaked for 3 hours and then atmospheric air-cooled.											
MECHANICAL PROPERTIES											
SPECIFICATION	Y.S. (ksi)	UTS (ksi)	%ELONG. in 50mm (4d) / in-50mm (5d)	% RED AREA	NOTCH TOUGHNESS (at °C) J		BEND TEST		HARDNESS BHN		
					Values	Avg.	ANGLE	D			
Minimum	36	70	22	35	--	--	--	--	--		
Maximum	--	95	--	--	--	--	--	--	237		
Achieved	46.2	75.0	35.6	66.3	--	--	--	--	147		
DETAIL OF CASTINGS											
S.NO.	DESCRIPTION			DRAWING NO / REV.		PART NO		POURED QTY			
1	6" MODEL DC TOP HOUSING			660DC14/8		--		5			
REMARKS: 1. The above stated ksi values have been calculated based on original tested N/MP values. 2. *RE = Ni + Cr +Mo+ V +Cu											
CERTIFIED THAT 1. THE ABOVE GIVEN DETAILS ARE CORRECT. 2. THE MATERIAL CONFORMS TO ABOVE SPECIFICATION. 3. THE MATERIAL IS FREE OF CONTAMINATION FROM RADIOACTIVE ELEMENT OR RADIATION. THE PARTS WERE MANUFACTURED,TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND CERTIFIED IN ACCORDANCE WITH EN 10204-3.1						 A. RAJENDRAN ASSISTANT MANAGER -QUALITY MANUFACTURER'S AUTHORIZED INSPECTOR					
Prepared by: TPS /-		Checked by: 									

CLIENTE / Customer / Client

VAN LEEUWEN PIPE AND TUBE -CAN
2875-64TH AVENUE
EDMONTON - ALBERTA T6P 1R1
CANADA

CERTIFICADO DE INSPECCION

Inspection Certificate - Certificat de Réception

DIN EN 10204 / 3.1
ISO 10474 / 3.1

FECHA: 22/10/2008
Date:

NOJA: 123734
Page: 1

OBJETO: SU PEDIDO N.º 45001134 (13.05.08)
Objet: Your Order No. Value Date N.º

DE: 13/06/2008
of: de

RMAS APLICABLES: ASME B16.5-03
Normas Aplicables: ASME B16.5-03

TERIAL CORRESPONDIENTE: ASTM A105N-03
Material Correspondent: ASME SA105N-03

IDO DE FUSION: NACE MR-01-7805 & NR-01-03/03
of Making - Elaboración de Acero: CSA - 2245.12-05
= Elec. Y = Oligosulfato

GR248 CATI



VULMA

ULMA FORJA, S.COOP.

Bº Zuluaga, 3 - Apdo. 14
20550 ORATÍ (Gipuzkoa) SPAIN
Tel: 34 - 943 780562
Fax: 34 - 943 781808
E-mail: ulma@ulmapiping.com

MARCA DEL FABRICANTE
Mark of factory



B0357

DEPARTAMENTO QUALITY ASSURANCE
Section

Dispersión

PARTIDA Item	CANTIDAD Quantity	DESCRIPCION Description	GRANULOMETRIA Grain Size	RESISTENCIA Tensile Strength	RESISTENCIA Yield Point	RESISTENCIA Elongation	RESISTENCIA Reduction of Area	RESISTENCIA Impact	RESISTENCIA Hardness
50 24053	24	WN 6 000LB S80 RF A105N	372AB	502	311	28,30	55,00	143	154

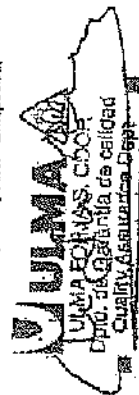
COMPOSICION QUIMICA - STEEL MARKER'S LADLE ANALYSIS - ANALYSE CHIMIQUE

C %	Si %	Mn %	P %	S %	Cr %	Ni %	Mo %	Nb %	V %	Cu %	Al %	77 %	N %	CEq %
0,160	0,250	0,840	0,013	0,010	0,070	0,080	0,020	0,005	0,005	0,170	0,025	0,000	0,000	0,356

OBSERVACIONES: N NORMALIZED AT 800 C AND ALLOWED TO COOL IN STILL AIR

Remarks: Observations

EL INSPECTOR
Inspector



- Las dimensiones y la condición superficial se hallarán satisfactorias.
- Dimensions and surface condition were found acceptable.
- Les dimensions et l'état de surface sont satisfaisants.
- Los estándares citados cumplen las normas aplicables.
- Meeting requirements are satisfied.
- Les normes applicables sont respectées.



MILL TEST CERTIFICATE
CERTIFICADO DE PRUEBAS EN FABRICA

Number / Numéro:	Page:
00024000	1 /
Date / Date: 13 November 2000	

Algonquin Pulp & Paper
5417 Watson Terrace
Sault Ste. Marie, ON Canada
P6C 1L9
(705) 946-6300
(705) 946-1210

666

Customer / Cliente: VAN LEEUWEN PIPE AND TUBE	Customer's Order Item / Orden Cliente - Item: P/O 45001184	Customer's Reference / Ref. del Cliente: N/A	Manufacturer's Works Order N° / Confiración do Veng: 008849703
Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA	Product Type / Tipo de Producto: LINE PIPE SEAMLESS CONDUCCION SIN COSTURA	Surface / Superficie: VARHISHED BARINZADO	Ends / Extremos: NORMAL BEVEL BISELADO NORMAL
Standard or Specification / Normas o Especificaciones: N/A	Sheet Grade / Grado de acero: B3742/250 PSL1	Quantity / Cantidad: 154 Pcs/Fz	Nominal Weight / Peso Nominal: 28.09 LBS/FT 47.58 KG/M
Dimensions / Dimensiones: 6.625 X 0.432 INCH 169.3 X 11 MM	Schedule / Célula: N/A	Length / Longitud: 10.01 / 24.98 FT 3.05 / 6.70 MTS	

Heat N° Calefacción N°	Sample N° Muestra N°	Zone Zona	Pipe N° Tubo N°	Specimen condition Condiciones de la probeta			Specimen dimensions Dimensiones de la probeta			Test long Temp. ensayo	Y.S.		U.T.S.		Y.S./U.T.S.		Elongation / Alargamiento	
				Condition		Size Tamaño	Area Sección	Offset 0.2% Min: 42 081 Max: 71 784	Req. Min: 60 045 Max: 80 038		Paq. Max.	Paq. Min.	%	%				
				Lo	Bi										Typo	Typo		
24143	21237	E1	00002	B	AM	Sc	L	25.50 x 10.00	278.00	RT	52 502	65 187	0.70	2	28.5	41.0		
24143	21238	E1	00008	B	AM	Sc	L	25.50 x 11.00	285.00	RT	50 915	74 071	0.08	2	29.0	41.0		
24159	21235	E1	00001	B	AM	Sc	L	25.50 x 11.50	231.00	RT	51 814	75 384	0.63	2	30.1	42.0		
24159	21236	E1	00040	B	AM	Sc	L	25.50 x 11.50	230.00	RT	47 848	74 946	0.63	2	28.5	41.0		

AL: Amortiguación / Beginn des Abklingens	La: Location of the loop / Ubicación de la muestra	Per: Período requerido / Minimum required	U.T.S.: Último punto de ruptura / Rupture point
BE: Back / Cuello	Mass: Maximum / Máximo	Rm: Rupture / Rupture	Y.S.: Yield strength / Fluencia
ET / EZ: End of sampling / Extremo de la muestra	Min: Minimum / Mínimo	RT: Room temperature / Temperatura ambiente	
L: Longitudinal / Longitudinal	Clac: Obtained / Obtenido	SC: Specimen condition / Condición de la probeta	
Lo: Initial length / Longitud inicial	OR: Orientation / Orientación	SS: Strip specimen / Muestra rectangular	

[illegible][illegible]

FOR23171



MILL TEST CERTIFICATE
CERTIFICADO DE PRUEBAS EN FABRICA

Alloys Tubing Inc.
517 Watford Terrace
St. John's, NL A1A 1X6
CANADA
P.O. Box 100
(709) 566-4100 ext.
(709) 566-3131 fax

Number / Número: 00024000
Date / Fecha: 13 November 2008
Page / Página: 2 / 7

Customer / Cliente: VAN LEEUWEN PIPE AND TUBE		Customer's Order Item / Orden Cliente - Item: P10 4000 1184		Customer's Reference / Ref. del Cliente: N/A		Manufacturer's Works Order N° / Confirmación de Venta: 005841009	
Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED		Product Type / Tipo de Producto: LINE PIPE SEAMLESS		Surface / Superficie: VARNISHED		Finish / Terminación: ENRIEZO	
Laminado en caliente sin costura		CONDUCCION SIN COSTURA		Standard Grade / Grado de acero: B1X422950 PSL1		Normal Level: NORMAL BEVEL	
Standard or Specification / Norma o Especificación: N/A		Length / Longitud: 18.01 / 21.03 FT		Quantity / Cantidad: 154 Pcs/Pz		Nominal Weight / Peso Nominal: 28.50 LB/FT	
Dimensions / Dimensiones: 6.625 X 0.432 INCH		Schedule / Code: N/A		942.322 MTG		42.50 KG/M	
185.3 X 11.11 MM		5.49 / 6.70 MTS		9081.403 FT			

Heat N°	Sample N°	Muestra N°	Composition % / Composición %														X 100		X 100		X 100	
			C	Mn	Si	P	S	As	Sn	Al	Cr	Mo	Ni	V	Co	Nb	Ti	Ca	B	N	Co. 2	
24143	00001	00001	15	106	24	0.014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
24143	21237	21237	15	106	24	0.014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
24143	21238	21238	15	106	24	0.014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
24150	00001	00001	15	106	24	0.014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
24150	21235	21235	15	106	24	0.014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
24150	21236	21236	15	106	24	0.014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	

Co. 2: Carbon equivalent / Carbono equivalente		Max: Máximo / Máximo		Min: Mínimo / Mínimo	
H: Heat / Caliente					

This certificate is issued by a computerized system and is a true and correct statement. On the original certificate the trademark is present and the "Tenaris" is stamped. In case the owner of the original certificate would release a copy of it, the trademark is stamped on the copy of the copy. Any other use of this certificate for any purpose other than the one intended is prohibited. Any other use of this certificate for any purpose other than the one intended is prohibited. Any other use of this certificate for any purpose other than the one intended is prohibited.

FOR03171



MILL TEST CERTIFICATE
CERTIFICADO DE PRUEBAS EN FABRICA

Alcan Tubos Inc.
547 Valley Road
P.O. Box 100
P.O. Box 100
P.O. Box 100

Number / Número:
00024000
Date / Día: 13 November 2008

Customer's Order Item / Orden Cliente - Item:
N/A

Product Type / Tipo de Producto:
LINE PIPE SEAMLESS
CONDUCCION SIN COSTURA

Standard or Specification / Norma o Especificación:
N/A

Surface / Superficie:
VARNISHED
BARNIZADO

Steel Grade / Grado de acero:
B/X42/290 PSL1

Dimensions / Dimensiones:
5.025 X 0.432 INCH
128.3 X 11 MM

Quantity / Cantidad: 154 Pcs/Pz

Length / Longitud:
19.01 / 21.98 FT
5.49 / 6.70 MTS

Weight / Peso Nominal:
28.60 LB/FT
42.50 KG/M

Manufacturer's Mark / Marca del Fabricante:
005049100

Customer's Reference / Ref. del Cliente:
N/A

Location of Sample / Ubicación de la muestra:
Rep. Min. Required minimum / Mínimo requerido

Heat N°	Sample N°	Zone	External / Exterior
Colada N°	Mostrador N°	Zona	Superficie / Exterior: HBW
24140	21237	E1	152
24140	21238	E1	152
24155	21235	E1	152
24155	21236	E1	152

Heat N°	Sample N°	Zone	External / Exterior	Internal / Interior	Var.
Colada N°	Mostrador N°	Zona	Superficie / Exterior: HBW	Superficie / Interior: HBW	Var.
24140	21237	E1	152	152	0.5
24140	21238	E1	152	152	0.5
24155	21235	E1	152	152	0.5
24155	21236	E1	152	152	0.5

Heat N°	Sample N°	Zone	External / Exterior	Internal / Interior	Var.
Colada N°	Mostrador N°	Zona	Superficie / Exterior: HBW	Superficie / Interior: HBW	Var.
24140	21237	E1	152	152	0.5
24140	21238	E1	152	152	0.5
24155	21235	E1	152	152	0.5
24155	21236	E1	152	152	0.5

Heat N°	Sample N°	Zone	External / Exterior	Internal / Interior	Var.
Colada N°	Mostrador N°	Zona	Superficie / Exterior: HBW	Superficie / Interior: HBW	Var.
24140	21237	E1	152	152	0.5
24140	21238	E1	152	152	0.5
24155	21235	E1	152	152	0.5
24155	21236	E1	152	152	0.5

Heat N°	Sample N°	Zone	External / Exterior	Internal / Interior	Var.
Colada N°	Mostrador N°	Zona	Superficie / Exterior: HBW	Superficie / Interior: HBW	Var.
24140	21237	E1	152	152	0.5
24140	21238	E1	152	152	0.5
24155	21235	E1	152	152	0.5
24155	21236	E1	152	152	0.5

Heat N°	Sample N°	Zone	External / Exterior	Internal / Interior	Var.
Colada N°	Mostrador N°	Zona	Superficie / Exterior: HBW	Superficie / Interior: HBW	Var.
24140	21237	E1	152	152	0.5
24140	21238	E1	152	152	0.5
24155	21235	E1	152	152	0.5
24155	21236	E1	152	152	0.5

Heat N°	Sample N°	Zone	External / Exterior	Internal / Interior	Var.
Colada N°	Mostrador N°	Zona	Superficie / Exterior: HBW	Superficie / Interior: HBW	Var.
24140	21237	E1	152	152	0.5
24140	21238	E1	152	152	0.5
24155	21235	E1	152	152	0.5
24155	21236	E1	152	152	0.5

Heat N°	Sample N°	Zone	External / Exterior	Internal / Interior	Var.
Colada N°	Mostrador N°	Zona	Superficie / Exterior: HBW	Superficie / Interior: HBW	Var.
24140	21237	E1	152	152	0.5
24140	21238	E1	152	152	0.5
24155	21235	E1	152	152	0.5
24155	21236	E1	152	152	0.5

Heat N°	Sample N°	Zone	External / Exterior	Internal / Interior	Var.
Colada N°	Mostrador N°	Zona	Superficie / Exterior: HBW	Superficie / Interior: HBW	Var.
24140	21237	E1	152	152	0.5
24140	21238	E1	152	152	0.5
24155	21235	E1	152	152	0.5
24155	21236	E1	152	152	0.5

Heat N°	Sample N°	Zone	External / Exterior	Internal / Interior	Var.
Colada N°	Mostrador N°	Zona	Superficie / Exterior: HBW	Superficie / Interior: HBW	Var.
24140	21237	E1	152	152	0.5
24140	21238	E1	152	152	0.5
24155	21235	E1	152	152	0.5
24155	21236	E1	152	152	0.5

Heat N°	Sample N°	Zone	External / Exterior	Internal / Interior	Var.
Colada N°	Mostrador N°	Zona	Superficie / Exterior: HBW	Superficie / Interior: HBW	Var.
24140	21237	E1	152	152	0.5
24140	21238	E1	152	152	0.5
24155	21235	E1	152	152	0.5
24155	21236	E1	152	152	0.5



MILL TEST CERTIFICATE CERTIFICADO DE PRUEBAS EN FABRICA

Argenta Tubes Inc.
947 Avenida Tuxtepec
San Jose, Nuevo Leon, Mexico
P.O. Box 103
78800 San Jose, Nuevo Leon, Mexico

Number / Número: 00024000
Page / Página: 4 / 7
Date / Día: 13 November 2008

Customer / Cliente: VAN LEEUWEN PIPE AND TUBE		Customer's Order Item / Orden Cliente - Item: N/A		Manufacturer's Works Order N° / Contáctenos de Venta: 005840700	
Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA		Product Type / Tipo de Producto: LINE PIPE SEAMLESS CONDUCCION SIN COSTURA		Surface / Superficie: VARNISHED BARNIZADO	
Standard or Specification / Normas o Especificaciones: N/A		Steel Grade / Grado de acero: B/X42280 PSL1		Ends / Extremos: NORMAL BEVEL BISELAADO NORMAL	
Dimensions / Dimensiones: 8.625 X 0.432 INCH 168.3 X 11 MM		Schedule / Código: N/A		Nominal Weight / Peso Nominal: 29.60 LBS 42.50 KGM	
		Length / Longitud: 18.01 / 21.88 FT 5.48 / 6.70 MTB		Quantity / Cantidad: 154 PCS/PZ 3891.608 FT 942.322 MTB	

Avg: Average / Promedio		L2: Location of sample / Ubicación de la muestra		OD: Outside Diameter / Diámetro externo	
B1: Body / Cuerpo		Max: Maximum / Máximo		Ques: Quench / Cuadrado	
E1 / E2: Ends of Sampling / Extremos de Muestra		Min: Minimum / Mínimo		Bn: Specimen condition / Condición de la muestra	

Standard / Norma:		Zone	
Heat No / Caliente N°	Barrel No / Barril N°	Tube No / Tubo N°	Zone
24143	21217	00002	B1
24143	21219	00003	B1
24156	21215	00001	B1
24156	21216	00040	B1

E1 / E2: Ends of Sampling / Extremos de Muestra

This certificate is issued by a competent person and is valid only for the material and process specified. It does not constitute a warranty of fitness for any particular use. The user of this certificate is responsible for its proper use. Any alteration or modification of this certificate is void.

FORG171



MILL TEST CERTIFICATE
CERTIFICADO DE PRUEBAS EN FABRICA

Alcoa Tubes Inc.
4500 Valley Parkway
Ste 300, Littleton, CO 80120
Phone: (303) 733-1313
Fax: (303) 733-1314

Customer / Cliente: VAN LEEUWEN PIPE AND TUBE		Customer's Order Item / Orden Cliente - Item: PIQ 4000184		Customer's Reference / Ref. del Cliente: N/A		Date / Fecha: 13 November 2008		Page / Página: 5 / 7		Number / Número: 00024000	
Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED		Product Type / Tipo de Producto: LINE PIPE SEAMLESS		Surface / Superficie: VARNISHED		Ends / Extremos: BARNISHED		Normal Level: NORMAL LEVEL		Biselado Normal	
Dimensions / Dimensiones: 8.625 X 0.432 INCH		Schedule / Cedula: N/A		Length / Longitud: 18.01 / 21.98 FT.		Quantity / Cantidad: 154 Pcs/Pz		Weight / Peso: 3081.608 LB		Net Weight / Peso Neto: 28.80 LB/ST	
188.3 X 11 MM				0.48 / 6.70 MTS		942.322 MTS		3980.000 KG		42.58 KG/ST	

Pressure / Presión	Time / Tiempo	Reactions / Reacciones
Unit / Unidad	Value / Valor	Reactions / Reacciones
PSI	4,110	5

Manufactured by ALCOA TUBES		Superintending Inspector / Inspeccionador Supervisor: [Signature]	
Steel making process: Electric Arc Furnace-Ladle Furnace-Continuous Casting & Rolling		Inspection by ALCOA TUBES	
Fillet welded steel		Preparation of the steel	
Multiple Area from Mercury contamination		Anneal in Acid Electrolytic Bath of Aluminum Hydroxide Solution	
Not required by welding		Acid solution with aluminum	
Non destructive test: Ballistics		Nitrogen for deoxidation	
Inspection method		No tempering for eductura	
RUE - UT - WALL - FLV - MPI		Control of mechanical properties	
Inspection Description		Aluminum inspection	
EMI & UT NOTCH 5% OD LAT, 10% ID LATUT LAMINATION CONTROL		RUE - UT - WALL - FLV - MPI	
CAPABILITY - NDC R0016		Description de inspection	
ALCOA Ref: 033300		EMI & UT NOTCH 5% OD LAT, 10% ID LATUT LAMINATION CONTROL	
Material meets requirements of NACE MR0175-2009, API 5L X 60, API 5L X 70		CAPABILITY - NDC R0016	
		ALCOA Ref: 033300	

This certificate is valid only if it is accompanied by a copy of the original test report. In case of any doubt, the customer should refer to the original test report. Any alteration or modification of this certificate is void. This certificate is not valid if it is not signed by the responsible person. Any alteration or modification of this certificate is void. This certificate is not valid if it is not signed by the responsible person. Any alteration or modification of this certificate is void.

FOR03174



MILL TEST CERTIFICATE CERTIFICADO DE PRUEBAS EN FABRICA

Algarve Tenaris Inc.
5475 Highway 100 West
Suite 100, Delta, BC Canada
V4L 1A5
(779) 946-4100 ext.
(779) 946-4101 fax

Number / Número:
00024000

Page / Página:
6 / 7

Date / Día: 15 November 2008

Customer / Cliente: VAN LEEUWEN PIPE AND TUBE		Customer's Order Form / Orden Cliente - Item:		Customer's Reference / Ref. del Cliente:		Manufacturer's Works Order # / Confirmación de Venta:	
Manufacturing Process / Proceso de Manufactura:		Product Type / Tipo de Producto:		N/A		1008349/08	
SEAMLESS HOT ROLLED		LINE PIPE SEAMLESS				Surface / Superficie:	
Laminado en caliente sin costura		CONDUCCIÓN SIN COSTURA				VARNISHED	
Standard or Specification / Norma o Especificación:		Base / Grado / Grado de acero:				BARNIZADO	
N/A		EUX42/290 PSL1				Ends / Extremos:	
Dimensions / Dimensiones:		Quantity / Cantidad: 154 Pcs/Pz				NORMAL BEVEL	
6.025 X 0.432 INCH		3091.698 FT				BISelado NORMAL	
108.3 X 11 MM		9.49 / 6.79 MTB				Nominal Weight / Peso Nominal:	
		18.01 / 21.59 FT				28.60 LB/FT	
		9.49 / 6.79 MTB				42.58 KG/M	
Schedule / Cálculo:		Length / Longitud:					
N/A		18.01 / 21.59 FT					
		9.49 / 6.79 MTB					
ASTM A579, CSA Z246.1 108.3 11.0 42.07 BOLLING 290 PSL1 4 28.3 ANDE H		ASTM A579, CSA Z246.1 108.3 11.0 42.07 BOLLING 290 PSL1 4 28.3 ANDE H					
WHERE:		WHERE:					
ALGARVE Monogram I.		ALGARVE Monogram I.					
Heat number #C-...		Heat number #C-...					
Length lbs #N...		Length lbs #N...					
Pipe number #N...		Pipe number #N...					

This certificate is issued by a computerized system and is valid with electronic signature. On the original certificate the word "mill" must appear. In case the power of the original certificate would require a copy of it, the original certificate must be submitted to the original mill. Any alteration or modification will be subject to the law.

FOR03171



Alpharma Tubes Inc.
547 West 16th
San Jose, CA 95128
P.O. Box 127
(755) 448-0130 Int
(755) 448-0127 Fax

Number / Número:	Page / Página:
00024000	7 / 7

CERTIFICATE
PRUEBAS EN FABRICA

MILL TEST
CERTIFICADO DE

Teratis

Customer / Cliente: VAN LEEUWEN PIPE AND TUBE	Customer's Order Item / Orden Cliente - Item: P/O 43901184	Customer's Reference / Ref. del Cliente: N/A	Manufacturer's Name Order N° / Confirmación de Venta: 08584308
Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA	Product Type / Tipo de Producto: LINE PIPE SEAMLESS CONDUCCION SIN COSTURA	Surface / Superficie: VARNISHED BARNIZADO	Ends / Extremos: NORMAL BEVEL BISelado NORMAL
Standard or Specification / Normas o Especificaciones: N/A	Steel Grade / Grado de acero: SRA42/280 PSL1	Quantity / Cantidad: 154 Pcs/Ft	Normal Weight / Peso Normal: 28.60 LB/FT 42.56 KG/M
Dimensions / Dimensiones: 6.835 X 0.492 INCH 168.3 X 11 MM	Length / Longitud: 10.01 / 21.08 FT 3.05 / 6.70 MTS		

Heat No. Column No.	Quantity Cartridge (Pounds)	Length Length (In.)	Weight Pound (Pounds)
24143	761	3,070.33	48,002
24155	3	62.25	0.819

Longitudinal premade per tube	Longitudinal premade per plate	Normal weight per plate	Normal weight per tube
(Lbs./ft.)	(Lbs.)	(Lbs./ft.)	(Lbs./ft.)
300000	0.119	48.48	48.48

This is not to be used for the purpose of certifying that the product described above has been manufactured in accordance with the requirements of the law. This certificate is not a declaration of origin. The certificate is not a declaration of origin. The certificate is not a declaration of origin.

 TENAMS QUALITY ASSURANCE	CUSTOMER - THIRD PARTY	REGISTERED COMPANY COMPANY OF REGISTRATION REGISTERED REGISTERED REGISTERED	TENAMS QUALITY DEPARTMENT SIGNATURE <i>Paul James</i> QUALITY CERTIFICATION DEPT. DEPT. DE CERTIFICACION DE CALIDAD	CHIEF OF QUALITY CERTIFICATION DEPT. RESPONSABLE DEL DEPT. DE CERTIFICACION DE CALIDAD <i>[Signature]</i>	BRONJING HERRERA
---	-------------------------------	--	--	---	-------------------------

This statement prepared by a computerized system and filed with the Securities and Exchange Commission pursuant to the requirements of the Securities Exchange Act of 1934, as amended, and the rules and regulations thereunder, is deemed to be a true and correct statement of the facts and circumstances as to the matters covered herein.

FORG171

CERTIFIED MILL TEST REPORT



**The Best Value
Price, Quality, Service
All The Time.**

LOG NO. 330982 PAGE 1
BONNEY FORGE
P.O. BOX 330 • 74008 CROOKMAN PIKE • MOUNTAIN VIEW, TX 77050-0330
(814) 542-3845 • (800) 346-7543 • FAX (814) 542-4506
www.bonneyforge.com

CUSTOMER: VAN LEEUWEN PIPE & TUBE

Date 02/04/09

CUSTOMER'S Order No. 43001277

Bonney Order No.

SHIPPED TO: VAN LEEUWEN PIPE & TUBE
(CANADA) INC.
2875 - 64TH AVENUE
EDMONTON ALBERTA
EDMONTON ALBERTA T6P1R1 CANAD

8000047347

ITEM	QUANTITY	LOT NO	DESCRIPTION	SA/A105N
001	6	4304	36-1/2 X 1/4 3M A105N FLEX T	
			C .200 MN 1.010 P .007 S .019 SI .210	
			NI .030 CU .110 CO .003 CR .040 MD .010	
			V .000 AL .020 NB .017	
			CE(LONG FORMULA) = 0.39	
			T/S 72500 Y/S 51250 EL 32.50 RA 65.85	
			BRINELL HARDNESS1: 130 HARDNESS2: 130	
018	626	57760	3 -3 X 3/4 3000 A105N THRD T	
			C .200 MN 1.040 P .007 S .023 SI .210	
			NI .030 CU .110 CO .003 CR .040 MD .014	
			V .000 AL .024 NB .013	
			CE(LONG FORMULA) = 0.39	
			T/S 74000 Y/S 49000 EL 32.00 RA 66.00	
			BRINELL HARDNESS1: 140 HARDNESS2: 141	
025	98	57689	36-3X1 3M A105N FLEX G	
			C .210 MN 1.050 P .007 S .020 SI .200	
			NI .020 CU .080 CO .002 CR .030 MD .010	
			V .002 AL .015 NB .011	
			CE(LONG FORMULA) = 0.40	
			T/S 74375 Y/S 50250 EL 32.10 RA 63.50	
			BRINELL HARDNESS1: 130 HARDNESS2: 130	
030	184	57658	36-3 X 1 6M A105N FLEX Y	
			C .190 MN 1.060 P .008 S .024 SI .190	
			NI .030 CU .100 CO .004 CR .020 MD .010	
			V .003 AL .027 NB .012 S .000	
			CE(LONG FORMULA) = 0.38	
			T/S 75251 Y/S 51382 EL 32.45 RA 66.38	
			BRINELL HARDNESS1: 132 HARDNESS2: 132	

***** CONTINUED ON NEXT PAGE *****

We certify that the data on this sheet is a true copy taken from our records of material furnished us by the production mill, or as obtained by additional laboratory checks.

Eric Boersl

CNTR: REV 1

QUALITY PROCESS MANAGER

CERTIFIED MILL TEST REPORT



**The Best Value
Price, Quality, Service
All The Time.**

LOG NO. 330982 PAGE 3

BONNEY FORGE
P.O. BOX 235 • 14400 CROGHAN PIKE • MOUNT UNION, PA 17066-0235
(610) 542-2545 • (800) 342-7348 • FAX (610) 542-4508
www.bonneyforge.com

CUSTOMER: VAN LEEUWEN PIPE & TUBE

Date 02/04/09

CUSTOMER'S Order No. 45001277

Bonney Order No.

SHIPPED TO: VAN LEEUWEN PIPE & TUBE
(CANADA) INC.
2875 - 64TH AVENUE
EDMONTON ALBERTA
EDMONTON ALBERTA T6P1R1 CANAD

B000047347

ITEM	QUANTITY	LOT NO.	TEST RESULTS
------	----------	---------	--------------

1. THE FITTINGS SUPPLIED ARE IN ACCORDANCE WITH PURCHASE ORDER SPECIFICATIONS.
2. THE MATERIAL SUPPLIED IDENTIFIED AS A105N WAS NORMALIZED IN ACCORDANCE WITH ASTM A105 HEAT TREATING REQUIREMENTS.
3. CERTIFYING ASTM A105-05 / ASME SA105-04 EDITION.
4. THE MATERIAL OF THE FITTINGS SUPPLIED IS ASTM A350-LF2 BUT MEETS THE REQUIREMENTS OF ASME SA350-LF2.
5. THE CHARPY V-NOTCH IMPACT TEST WAS PERFORMED AT -50 DEGREES FAHRENHEIT IN ACCORDANCE WITH A350-LF2.
6. CERTIFYING TO ASTM A350 LF2 D7 REVISION.
7. THE MATERIAL SUPPLIED WAS NORMALIZED IN ACCORDANCE WITH ASTM A350 HEAT TREATING REQUIREMENTS.
8. ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.
9. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
10. THE MATERIAL SUPPLIED MEETS THE REQUIREMENTS OF BOTH NACE MR0103-2007 AND NACE MR0175/ISO 15156.

***** END OF CERTIFICATION *****

We certify that the data on this sheet is a true copy taken from our records of material furnished us by the production mill, or as obtained by additional laboratory checks.

Chris Boozel

CMTR-REV 1

QUALITY PROCESS MANAGER



Weld International Nuclear Products
 4400 Highway 51 - Bonham, TX 75762
 Phone: 918-261-3333 Fax: 918-261-3333
 A Heavy Duty Pipe Company

Page 4 of 4

TO: FRANKS AM PIPING PRODUCTS
 LTD.
 1111 SOUTH AVENUE
 COLUMBIA, AR 72701

Material: 304, 304

Order: 6100-388

Ship Order: 000101440

Date: 11/21/2011

Certified Material Test Report

Test Code: 48204

This product has not come in direct contact with mercury or
 any of its uses provide, and with any mercury-containing
 device employing a single-breathway of containment. No
 testing performed.
 We certify that the contents of this report are correct and
 accurate, and that all test results and operations performed
 by WPI or its subcontractors are in compliance with the
 original specifications and requirements of the referenced
 code or standard, and that the material conforms to the
 dimensional requirements of the order. This document is in
 accordance with EN10204 3.1.

Material: A/SA103N 06

Item	Quantity	Description
18	213	3/4 X 1 1/2 X 3/4 8M THP A/SA103N

Chemical Composition

Label	C	Cr	Co	Mo	Ni	Mn	NT	P
	0.208	0.34	0.170	1.04	0.013	0.02	0.04	0.008
	5	31	9					
	0.033	0.36	0.08					
Carbon Equivalency:	0.16			0.40				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	71,125	44,715	34.70	67.22	112 BHN	(12) HIGH
Normalized						

IN ACCORDANCE WITH NACE SPEC MR0175-7607

Mark Deaton

Quality Assurance Representative

