CAMERON

Wednesday Jan-07-2015

From:

Cameron Canada Corporation
3707 97 St.

Edmonton,Alberta,Canada
T6E 6J2
780-468-2732

www.c-a-m.com

To:

Subject:

Serial:	120427404	Quantity/Series:	50

Comment:

Part Number: 5A-T3R10S20LZ3

Description: 1" RP 2000 WOG FNPT SLT, FIRESAFE, ANTI-STATIC

Sales Order: N/A

Purchase Order: N/A

Wednesday Jan-07-2015

From:

Cameron Canada Corporation
3707 97 St.
Edmonton,Alberta,Canada
T6E 6J2
780-468-2732

www.c-a-m.com

To:

,,

Document Summary Page

The MTR's are printed in the following order:

#	Heat #	Heat Code	Part Description	Product
1	L	LOC	Nutron T3, B3, B2, TT Sour Low Temp.	--LOC
2	Hydro Test	598	API 598	-Hydro Test
3	339990		BODY, 7/8" 4000 WOG T3	5A-10001032400
4	D70456	HE	CAP, 1" RP 4000 WOG FNPT	5A-1010101032400
5	R6271		STEM,7/8",ANTI-STATIC, ASTM A564 17-4	5A-11301013617001
6	S8313		BALL,7/8",w/1/8" HOLE FOR ANTI-STATIC SP	5A-11501041617026

VALVES & MEASUREMENT
Cameron Canada Corporation
3707 – 97 Street
Edmonton Alberta Canada T6E 6J2
Phone 780.463.6868
Fax 780.465.1244
www.c-a-m.com

GENERAL LETTER OF COMPLIANCE

for:

Nutron Models
T3, B3 & B2 & TT

Style 'L': Sour Low Temperature Service

Cameron Valves & Measurement hereby certifies that the design, fabrication, testing and quality control of the above NUTRON brand ball valves for Sour Low Temperature Service have been made in accordance with the following applicable standards (latest edition in effect at time of manufacture): API 598 (1-1/2" and smaller), API 6D (TT only), ASME B16.34, CSA Z245.15 Sour Service (2" FP and larger) and V&M Engineering Standards. As part of compliance to these specifications, the valves have been marked in accordance with MSS SP-25. The valve has also been marked "SOUR" as required by CSA Z245.15 marking requirements for Sour Service.

The materials of construction for this valve conform to the metallurgical requirements of NACE MR0175/ISO 15156:2009 (Parts 1 & 2 for Carbon & Alloy Steels in SSC Region 3 Sour Service and Parts 1 & 3 for CRA's as specified in CSA Z245.15 Chapter 13). Per NACE MR0175-2009/ISO 15156, it is the customer's/user's responsibility to ensure that the valve materials will be satisfactory in the intended service.

The minimum service temperature of these valves is -46°C/-50°F. Impact testing has been performed in accordance with applicable ASTM requirements and those of CSA Z245.15 for Category II M45C Service.

The 'Z' option code designation at the end of a figure number indicates that the valve meets the requirements of API-607 Fourth Edition, May 1993.

These valves (1-1/2" and larger) conform to the Pressure Equipment Directive requirements and are marked as CE certified (Certificate #8888-001-2002).

The B2 and TT valve models are constructed to be anti-static as standard.

Approved by:

Greg Ogaranko, M.Eng., P.Eng.
Engineering Manager

10/11/13
EWR 7463-01 Rev07.docx

VALVES & MEASUREMENT
Cameron Canada Corporation
3707-97th St.
Edmonton Alberta Canada T6E 6J2
Phone 780.468.2732
www.c-a-m.com

CERTIFICATE OF CONFORMANCE

API 598 Pressure Testing – Carbon Steel (2" RP and Smaller)

COMPLIANCE: These valves are tested in accordance with Cameron Valves & Measurement's standard procedures and API Standard 598, as per the chart below.

Test durations are 15 seconds in length as a minimum. Test duration is defined as the period of inspection after the valve is fully prepared and is under full pressure.

Butt weld end valves shall be tested in accordance with the ANSI rating.

Actual test pressure is rounded to next highest increment on the gauge.

Carbon Steel
Shell and Seat Test Pressures
(Table Based on Rating for Group 1.1 Materials per ANSI B16.34)

Valve Class	Maximum Working Pressure	Hydrostatic Shell Test Pressure (PSI)	Air Seat Test Pressure +/- 10 PSI
150 ANSI	285	450	80
300 ANSI	740	1125	80
600 ANSI	1480	2225	80
800 ANSI	1975	3000	80
900 ANSI	2220	3350	80
1500 ANSI	3705	5575	80
2500 ANSI	6170	9275	80
275 WOG	275	425	80
720 WOG	720	1100	80
1000 WOG	1000	1500	80
1440 WOG	1440	2175	80
1500 WOG	1500	2250	80
2000 WOG	2000	3000	80
2160 WOG	2160	3250	80
3000 WOG	3000	4500	80
3600 WOG	3600	5400	80
4000 WOG	4000	6000	80
5000 WOG	5000	7500	80
6000 WOG	6000	9000	80

Greg Ogarenko, Engineering Manager

MTR COVER SHEET

Company: ZINTRON INDUSTRIAL LTD
Address: No.198-1, Sinhe Rd, Hsin Feng Hsiang,Hsinchu, Taiwan, R.O.C.

Phone: 886-3-568-7100
Fax: Line 1: 886-3-568-7119
E-Mail: zintron@zintron.com.tw

Date:	2014/8/8				
Customer :	CAM DISTRIBUTED VAL EDMONTON				
Address:	COOPER CAMERON CANADA CORP 3707-97 Street Edmonton, Alberta T6E 6J2				
Customer PO:	4510387971	Item No.	30	Date:	2014/10/17
Part No.	5A-10001032400 REV 01	Part Desc.:	BODY,7/8" 4000 WOG,ASTM A350 (LATEST EDITION) Gr LF2		
Heat No.	339990_	Heat Code:			

S.O.No.:		Item No.:		Date:	
Quantity:		Weight:			

We hereby certifies that the parts shipped on your purchase order specified above have been produced in accordance with purchase order instructions and specification.

Authorized Signature: APPROVED BY: Martin
QA Manager: Martin Chu
Print Name: Martin Chu
Title: QA Manager

Original MTR/Certification provided by(attached):

Supplier: ZINTRON INDUSTRIAL LTD
Address: No.198-1, Sinhe Rd, Hsin Feng Hsiang,Hsinchu, Taiwan, R.O.C.

Phone: 886-3-568-7100
Fax: Line 1: 886-3-568-7119
E-Mail: zintron@zintron.com.tw

200

Note: MTR/Certification shall be legible for electronic archiving.

APPROVED
By laia at 10:54 am, 10/23/14

MTR HEAT NUMBER ANNEX FORM

Part Number: 5A-10001032400 REV 01 **PO:** 4510387971-30 **Quatity:** 5000

Heat No.	Quantity	Heat No.	Quantity	Heat No.	Quantity
339990_	5000				

APPROVED
By laia at 10:55 am, 10/23/14

Zintron Industrial LTD
No.198-1, Sinhe Rd., Sinfong Township, Hsinchu County 304, Taiwan (R.O.C.)
Tel : 886-3-568-7100
Fax : 886-3-568-7119
E-mail : zintron@zintron.com.tw

[T3-7/8"B 4000 LF2] **Report No: 2325-200**

MILL TEST CERTIFICATE REPORT

Client	Cooper Cameron Valves Canada	Shipping Date	Aug.08.2014
Product	BODY,7/8" 4000 WOG,ASTM A350 (LATEST EDITION) Gr LF2	Material	ASTM A350 LF2/A105 (5A-81504032074)
Order No	4510387971-30	Condition	Forge
Part No	5A-10001032400 REV 01		
Order Q'ty	7570 pcs	Shipping Q'ty	5000 pcs

CHEMICAL PROPERTIES

Material Spec.		Chemical Composition %															
		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Cb	Residue	C.E.			
	Max.	0.230	0.300	1.050	0.035	0.035	0.400	0.300	0.120	0.400	0.080	0.020	1.000	0.430			
	Min.		0.150	0.600													
Heat No: 339990_		0.190	0.210	0.840	0.015	0.009	0.040	0.100	0.010	0.120	0.001	0.001	0.271	0.360			

MECHANICAL PROPERTIES

Material Spec.		Tensile Strength	Yield Strength	Elong.%	R.A.%	Hardness1	Hardness2		
	Max.	95000 psi				187 HB	187 HB		
	Min.	70000 psi	36000 psi	22 %	30 %	137 HB	137 HB		
Heat No: 339990_		76278 psi	48088 psi	36.1 %	74.3 %	174 HB	170 HB		

Charpy V-Notch Impact Test for Standard Size 10x10mm Specimen

Material Spec.	-46℃ V-Notch Impact	Impact No.1	Impact No.2	Impact No.3		
Heat No: 339990_	46.05 ft-lbs	40.74 ft-lbs	52.73 ft-lbs	44.68 ft-lbs		

Heat Treatment Procedure as follows:

1. **Austenitize at 1550-1700°F(843-930°C). Cycle time shall be one hour minimum.**
2. **Oil quench.**
3. **Temper at 1100-1300°F(590-704°C),holding at temperature a minimum of 30 min/in.(30min/25mm) of maximum thickness**

1.C.E.= %C+%Mn/6 + (%Cr+%Mo + %V)/5 +(%Ni+%Cu)/15
2.The Charpy V-notch impact test was implemented as below:
(1)Specimen Size :ASTM E23 10 mm x 10 mm x 55 mm V-Notch
(2)The test specimen orientation: longitudinal.

We hereby certify that the material provided complies with all CVM requirements as stated in the applicable purchase order and that inspections were performed and certificates issued in accordance with EN 10204, 3.1, 2004.

APPROVED BY: Martin

QA Manager: Martin Chu

APPROVED
By laia at 10:56 am, 10/23/14

Global
ISO 9001:2008
Registration Number: 69Q15438

HEAT TREATMENT ANNEX FORM

Base MTR Heat No.	Forging Heat No.	Heat Treatment			Heat Treatment No.
		Procedure	Tempearture	Time	
339990	339990	Quench	880°C	3.3H	1312058302
339990	339990	Tempering	650°C	4H	1312058302

APPROVED
By laia at 10:57 am, 10/23/14

豐興鋼鐵股份有限公司
FENG HSIN IRON & STEEL CO., LTD.

無放射性污染暨品質證明書
(出 廠 證 明 書)
TEST CERTIFICATE

OFFICE : 臺中市后里區甲后路702號
702, CHIAHOU ROAD, HOU LI SHIUNG, TAICHUNG HSIEN, TAIWAN, ROC
TEL : (04)25565101
FAX : (04)25566955

APPROVED
By laia at 10:59 am, 10/23/14

客戶名稱 CUSTOMER NAME				證明書編號 CERTIFICATE NO.	22BB0282-001
				交運日期 SHIPPING DATE	2013/11/14 ~ 2013/11/14
規格名稱 SPEC.	ASTM A105	產品名稱 PRODUCT	HOT ROLLED STRAIGHT ROUND BAR 熱軋直棒鋼	證明書列印日期 CERTIFICATE DATE	2013/11/15

尺寸及規格 MATERIAL DESCRIP.				爐號	拉力試驗 TENSILE			化學成分(%)CHEMICAL ANALYSIS													秤量單編號
直徑 DIA. (mm)	長度 LEN. (m)	數量 QTY (bdl.)	重量 WEIGHT (kg)	HEAT NO	降伏YP /mm²	抗拉TS /mm²	伸長率 EL(%)	C	Si	Mn	P	S	Ni	Cr	Mo	CU	PB	Al	NB	V	B	CO	SHIPPING NO.
								X100			X1000		X100					X1000			X10000	X100	
								18 20	15 30	80 100	30 MAX	30 MAX	40 MAX	30 MAX	12 MAX	40 MAX			20 MAX	30 MAX			
60	6	10	19548	339990				19	21	84	15	9	4	10	1	12	0		1	1	3	1	2D2B14044

ISO 9001
BSI
RESISTERED
ISO 9001 : 2008
ID 5M8Y004

確認簽章

TOTAL:	10 BUNDLES	19,548 kgs.

REMARK: 2335-140 USC-1.5 FA105

※茲證明本表所列產品,均依材料規格製造及試驗並符合規格之要求
WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS MANUFACTURED AND TESTED WITH SATISFATORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

冶金研發處處長
MANAGER
METALLURGICAL R&D DEP.

郭志設

Giant Young Machinery Component Parts Co., Ltd.
No. 13 Fang Yuan Ind. Park 4 th Rd. , Chang Hwa Hsien , Taiwan
TEL: 886-4-8965977
FAX: 886-4-8965981

機 械 性 質 測 試 證 明
MECHANICAL PROPERTIES CERTIFICATE

材 質 (Material): **ASTM A350 LF2** 報告編號 (Report No): **GF20141013039**

數 量 (Quantity): **1PC** 訂單號碼 (Order No): **GF1031013**

日 期 (Date): **OCT.13.2014** 試 片 (Specimen): **Forged Specimen**

拉 伸 試 驗 Tension Test

Heat No.	試 片 Test specimen		抗拉強度 T.S	降伏強度 Y.S	伸長率 Elongation	斷面縮率 R.A	硬度值 1 Hardness 勃氏硬度	硬度值 2 Hardness 勃氏硬度
	標點長(mm) Gauge Length	直徑 (mm) Dia	kgf/mm^2	0.2% offset kgf/mm^2	%	%	Brinell HB	Brinell HB
339990	25	6.23	53.63 (76278 psi)	33.81 (48088 psi)	36.1	74.3	174	170

空 白
B L A N K

Q.A.CHIEF: 陳加鎮

APPROVED
By laia at 11:01 am, 10/23/14

Giant Young Machinery Component Parts Co., Ltd.
No. 13 Fang Yuan Ind. Park 4 th Rd. , Chang Hwa Hsien , Taiwan
TEL: 886-4-8965977
FAX: 886-4-8965981

衝 擊 試 驗 報 告 表
IMPACT TEST REPORT

客 戶: 品 名: 檢驗編號:
Customer: Cameron International Corporation **Product:** Forged specimen **Application No:** GF20141013005

委託事項: 衝擊試驗 材 質: 檢驗日期:
Job Description: Impact Testing **Material:** ASTM A350 LF2 **Date Issued:** Oct.13,2014

1. **Testing specification: ASTM A-350 LF2**
2. **Testing Instrument: Impact Tester**
3. **Specimen Size :ASTM E23 10 mm x 10 mm x 55 mm V-Notch**
4. **Testing Temperature: - 50^0 F**
5. **The test specimen orientation:longitudinal**

Testing Result:

試片編號 Specimen No	衝 擊 值 Energy Value (Ft-Lbs)			平均值 Average Value(Ft-Lbs)	備註 Remark
	No. 1	No. 2	No. 3		
339990	40.74	52.73	44.68	46.05Ft-Lbs	

空 白
B L A N K

Q.A.CHIEF: 陳加鎮

APPROVED
By laia at 11:01 am, 10/23/14

CAMERON

Material Test Report

Specification Notes:

Name	Revision	Grade	Description	Revision Year
ASTM A105/ASTM A350 GR LF2 Cameron			Carbon & Low-Alloy Steel Forgings	

Product Information:

Item #	Product Code	Description	Heat Number	Heat Code	PO #
1	5A-1010101032400	CAP,1" RP 4000 WOG FNPT, ASTM A105/LF2	D70456	HE	

Chemical Information:

Item #	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	CE	Cb/Nb	Cu+Ni	Cr+Mo
Min		0.6			0.10									
Max	0.21	1.35	0.030	0.030	0.3	0.4	0.3	0.12	0.4	0.08	0.43	0.02	1.00	0.32
1	.2	1.21	.009	.018	.21	.04	.05	.01	.11	0.0		.014		

Physical Information:

Item #	Tensile (psi)	Yield (psi)	% Elongation	Charpy ft/lb	Charpy Temp (°F)	% Red of Area	Hardness (Brinell)
Min	70000	36000	22	15	-80	30	137
Max	95000				-50		197
1	76300	49700	34	83, 57, 87	-50	71	148

Additional Notes:

NORMALIZED AS PER ASTM A350 LF2

We certify that the items referenced in this document were manufactured and tested in accordance with Cameron Purchase Order requirements and EN10204 3.1

M. Aide

Quality Manager
Cameron Canada

Won Zone
TÜV ISO 9001 No. 01 100 029186

原璋實業有限公司
WON ZONE CORPORATION
3F No. 185 Chung Hwa Road Sec. 2, Chung Li City 32068, Taiwan
32068 桃園縣中壢市中華路二段１８５號３樓 統一編號：16879927
Tel: +886-3-4341 325 Fax: +886-3-4341 525 E-mail: wonzone.taiwan@msa.hinet.net

CERTIFICATE OF CHEMICAL ANALYSIS AND MECHANICAL PROPERTIES	CERTIFICATE NO. 141027- 3 DATE: 27-Oct-14

To. CAMERON CANADA CORPORATION
3707-97th Street, EDMONTON, AB T6E 6J2, CANADA

INVOICE NO. WZ-141027A | Your Order No. 4510517522/521523/539725

MATERIAL SPECIFICATION: ASTM A-564 TYPE 630 H1150D

Q'TY	PART NAME	DRAWING No.	Heat Code	Mechanical Properties					
				Y.S.(KSI)	T.S.(KSI)	ELO.(%)	HRC	RA (%)	ft-lbf (-75°F)
				105 min	125 min	16 min	29~33	50 min	15 min
6,400	5A-11301013617001 Stem 7/8"	#02040	R6271	121	139	22	30	70	92/92/94
164	5A-11301513617001 Stem 1½"	#02038	FO	127	138	22	32	72	96/86/100
1,936	5A-11301513617001 Stem 1½"	#02038	FR	119	136	24	32	72	95/97/98
720	5A-11501013617026 Ball 7/8"	#06082	S8492	116	137	25	32	72	103/95/96
180	5A-11502013617015 Ball 2"	#06080	S8421	110	135	22	30	70	84/84/86

Heat Code	Chemical Composition (%)										
	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	Nb+Ta	
	0.07max	1.0max	1.0max	.030max	.040max	15-17.5	3.0-5.0	0.5 max	3.0-5.0	0.15-0.45	
R6271	0.02	0.64	0.49	0.023	0.029	15.04	4.36	0.19	3.40	0.23	
FO	0.02	0.63	0.51	0.023	0.029	15.17	4.32	0.18	3.40	0.23	
FR	0.02	0.63	0.46	0.018	0.030	15.20	4.33	0.17	3.46	0.22	
S8492	0.02	0.63	0.45	0.025	0.029	15.27	4.22	0.18	3.47	0.22	
S8421	0.02	0.63	0.46	0.018	0.030	15.20	4.33	0.17	3.46	0.22	

Solution Treatment: 1900°F for 30 Min/Inch (Minimum of 1 Hour), Fast Air Cooling to below 90°F
Double Aged at 1150°F for 4 hours minimum and cooled to below 90°F in air
Charpy Impact Test Specimens: 10*10*55mm(Longitudinal)
Re Orig Heat #SE0302-G80 for R6271; #SE0082-BA2 for FO; #SE1134-GK0 for FR;
#SE0979-G80 for S8492; #SE1134-GE8 for S8421
NOTE: CERTIFICATE ACCORDING TO EN 10204/3.1B

QUALITY CONTROL INSPECTOR	MANAGER
Sandy Yeh	Grant Hsu

APPROVED
By laia at 8:04 am, 11/20/14

Won Zone
ISO 9001
No. 01 100 029186

原璋實業有限公司
WON ZONE CORPORATION
3F No. 185 Chung Hwa Road Sec. 2, Chung Li City 32068, Taiwan
32068 桃園縣中壢市中華路二段185號3樓 統一編號：16879927
Tel: +886-3-4341 325 Fax: +886-3-4341 525 E-mail: wonzone.taiwan@msa.hinet.net

CERTIFICATE OF CHEMICAL ANALYSIS AND MECHANICAL PROPERTIES	CERTIFICATE NO. 141013- 2 DATE: 13-Oct-14
To. CAMERON CANADA CORPORATION 3707-97th Street, EDMONTON, AB T6E 6J2, CANADA	
INVOICE NO. WZ-141013A	Your Order No. 4510471667
Material Specification: ASTM A351 CF8M	Heat Treatment: Solution Annealed (1050℃ min./2hrs/water)

Q'TY	PART NAME	DRAWING No.	Heat Code	Mechanical Properties			
				T.S.(MPa)	Y.S.(MPa)	ELO.(%)	HB
				485 min	205 min	30 min	140-237
1,000	5A-11500541617015 Ball ½"	#06076	S8312	517	229	47	168
6,120	5A-11501041617026 Ball 7/8"	#06082	S8313	548	251	49	144
768	5A-11501541617015 Ball 1½"	#06079	S8315	521	307	49	156
450	5A-11502041617015 Ball 2"	#06080	S8318	530	278	46	154
162	5A-11503041617015 Ball 3"	#06083	S8342	523	286	48	155

Heat Code	Chemical Composition (%)								
	C	Mn	Si	S	P	Cr	Ni	Mo	
	0.08max	1.5max	1.5max	.040max	.040max	18-21	9-12	2.0-3.0	
S8312	0.0465	0.7673	0.4173	0.0071	0.0377	18.6200	9.4424	2.2732	
S8313	0.046	0.91	0.512	0.0101	0.035	18.50	9.36	2.13	
S8315	0.043	1.05	0.498	0.0098	0.0297	18.59	9.47	2.14	
S8318	0.047	0.89	0.527	0.0099	0.0314	18.52	9.47	2.22	
S8342	0.056	1.11	0.569	0.0083	0.0302	18.69	9.46	2.21	

Re: Orig Heat # D598 for S8312; #140826-03-3 for S8313; #B140925-16-2 for S8315;
B140909-09-2 for S8318; #B140821-15-3 for S8342

NOTE: CERTIFICATE ACCORDING TO EN 10204/3.1B

QUALITY CONTROL INSPECTOR	MANAGER
Sandy Yeh	Grant Hsu

CAMERON
OCT 30 2014
Q.C. APPROVED
CCV QC01

Won Zone
TÜV ISO 9001 No. 01 100 029186

原璋實業有限公司
WON ZONE CORPORATION
3F No. 185 Chung Hwa Road Sec. 2, Chung Li City 32068, Taiwan
32068 桃園縣中壢市中華路二段１８５號３樓 統一編號：１６８７９９２７
Tel: +886-3-4341 325 Fax: +886-3-4341 525 E-mail: wonzone.taiwan@msa.hinet.net

CERTIFICATE OF CHEMICAL ANALYSIS AND MECHANICAL PROPERTIES	CERTIFICATE NO. 141013- 2 DATE: 13-Oct-14
To. CAMERON CANADA CORPORATION 3707-97th Street, EDMONTON, AB T6E 6J2, CANADA	
INVOICE NO. WZ-141013A	Your Order No. 4510471667
Material Specification: ASTM A351 CF8M	Heat Treatment: Solution Annealed (1050℃ min./2hrs/water)

Q'TY	PART NAME	DRAWING No.	Heat Code	Mechanical Properties			
				T.S.(MPa)	Y.S.(MPa)	ELO.(%)	HB
				485 min	205 min	30 min	140-237
1,000	5A-11500541617015 Ball ½"	#06076	S8312	517	229	47	168
6,120	5A-11501041617026 Ball 7/8"	#06082	S8313	548	251	49	144
768	5A-11501541617015 Ball 1½"	#06079	S8315	521	307	49	156
450	5A-11502041617015 Ball 2"	#06080	S8318	530	278	46	154
162	5A-11503041617015 Ball 3"	#06083	S8342	523	286	48	155

Heat Code	Chemical Composition (%)								
	C	Mn	Si	S	P	Cr	Ni	Mo	
	0.08max	1.5max	1.5max	.040max	.040max	18-21	9-12	2.0-3.0	
S8312	0.0465	0.7673	0.4173	0.0071	0.0377	18.6200	9.4424	2.2732	
S8313	0.046	0.91	0.512	0.0101	0.035	18.50	9.36	2.13	
S8315	0.043	1.05	0.498	0.0098	0.0297	18.59	9.47	2.14	
S8318	0.047	0.89	0.527	0.0099	0.0314	18.52	9.47	2.22	
S8342	0.056	1.11	0.569	0.0083	0.0302	18.69	9.46	2.21	

Re: Orig Heat # D598 for S8312; #140826-03-3 for S8313; #B140925-16-2 for S8315;
B140909-09-2 for S8318; #B140821-15-3 for S8342

NOTE: CERTIFICATE ACCORDING TO EN 10204/3.1B

QUALITY CONTROL INSPECTOR	MANAGER
Sandy Yeh	Grant Hsu

CAMERON
OCT 30 2014
Q.C. APPROVED