TUBE SERVICE COMPANY
6650 N ENSIGN STREET
PORTLAND, OREGON 97217
503 944-5420 FAX 503 944-5430

TO: ~~LEE~~ BERT WANG

ATTN: Carlos

NO. OF PAGES INCLUDING COVER SHEET

TR. for Wang NMR INC

This was not available at UPS time last week

TED SHAFER **tshafer@tubeservice.com**
TUBE SERVICE COMPANY
PORTLAND OR 97125
TELEPHONE 503-944-5420
FAX 503-9445430

%%[TO:1-503-944-5430, TUBE SERVICE COMPANY, kerry]

Prudential Stainless & Alloys, L.P.
130 Essex Ave East
Avenel, NJ 07001
800-631-9500 Fax 732-750-0778

Test Report

Date : [illegible]/05/07
Customer No : [illegible]8-6477
Our Order No : 49[illegible]91-RJ

To: TUBE SERVICE COMPANY
6650 N ENSIGN STREET
PORTLAND, OR 97217-3925

PRODUCT DESCRIPTION
7 X 500 WMT 304/L

Heat # :	N036051	Misc Note 1 :	304/304L
Spec :	ASTM A269	Misc Note 2 :	
Finish :	A&P		
C :	0.027	Eddy Hydro :	OK
Si :	0.320	Yield (psi) :	45100
Mn :	1.400	Tensile (psi) :	86900
P :	0.028	Elong (%/2") :	56.780
S :	0.011	Hardness RB :	74-78
Ni :	8.200	Flattening :	
Cr :	18.320	Flaring :	
Mo :		Rev Flt/Bend :	OK
Ti :		Flange :	OK
Cb+Ta :		Int. Cor/Embr .	
Fe :		Passiv. :	
Cu :		Grain Size :	
Al :		Misc Note :	A269-J1
N :			
Co :			

Certified - The above information is an extract of data furnished to us by the producing mil.

Authorized Signature

PRUDENTIAL STAINLESS & ALLOYS, L.P.

%%[SEND]

RICKARD METALS, INC.
1707 S. GROVE AVE.
SUITE D E
ONTARIO, CA 91761
(909) 947-4922 FAX: (909) 947-4909

CERTIFICATE OF CONFORMANCE

DATE: 3/1/2007
S/O#: 26382
CUST NO: 100868

CUSTOMER: WANG NMR, INC.
550 NORTH CANYONS PRKWY
LIVERMORE, CA. 94550

QTY	DESCRIPTION	HEAT NUMBER
1 EACH	6061-T6 ALUMINUM	47331/65165
	MICE-C001A DWG. MICE-C0001	

NOTICE

CHEMICAL AND PHYSICAL ANALYSIS FOR ABOVE ITEM (S) ATTACHED THIS MATERIAL IS FREE FROM MERCURY AND RADIUM CONTAMINATION AT TIME OF SHIPMENT. NO WELD REPAIR PERFORMED. THE WILLFUL RECORDING OF FALSE, FICTITOUS OR FRAUDULENT STATEMENTS ON THIS DOCUMENT MAY RESULT AS A FELONY UNDER FEDERAL STATUTES.

Harry Rowe
Manager Quality Control

ORDER NO.

547023

RICKARD METALS-26382
1707 S GROVE AVE STE D
ONTARIO, CA 91761-4539

WANG - P.O. # 100868

MATERIAL CERTIFICATION

CUSTOMER ORDER NUMBER	ITEM	OF	CUSTOMER JOB NUMBER	DATE SHIPPED
26382	1	1		11/17/2006
PART NUMBER		B/P NUMBER	F.O.B. SCOT FORGE VIA INWAY	DATE PREPARED
NMR Cylinder				11/20/2006

DESCRIPTION OF MATERIAL AND SPECIFICATIONS

Material	6061-T6 Aluminum			
Destructive Test	None			
Finish	Forge with allowance to finish			
Reference	Part Number: NMR Cylinder			
Size	OD	ID	Length	(inches)
	27.5	19.29	100.157	
Surface	Forged	Forged		

NO. OF PIECES 1 **HEAT NUMBER** 47331 (MILL - VISTA METALS CORP)
(MSDS PREVIOUSLY SENT

Mn	Si	Cr	Cu	Al	Fe	Mg	Ti	Zn
0.054	0.630	0.195	0.269	97.302	0.363	1.044	0.034	0.069

We certify that the material listed was not processed with mercury bearing instruments and/or equipment which might cause contamination, nor was mercury handled in the immediate vicinity during the manufacturing process.

Testing, inspection, and documentation in accordance with EN 10204:2004 Type 3.1 and ISO 10474 Type 3.1.B

Material provided has been produced by Scot Forge under an approved quality program as defined within the Scot Forge QA Manual, Revision Dated 10/11/04

The recording of false, fictitious or fraudulent statements or entries on this document may be punishable as a felony under Federal Statute

The products supplied are in compliance with the quantity and quality requirements of the purchase order and specifications noted. The test reports represent the actual attributes of the items furnished and the test results are in full compliance with all applicable specifications and order requirements

THIS IS TO CERTIFY THAT THE REPORTED LADLE ANALYSIS (AND/OR TESTS) SHOWN ON THIS REPORT ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY

APPROVED BY: Richard Gabrys
RICHARD GABRYS
QUALITY ASSURANCE DIR.

ORDER NO.

547023

RICKARD METALS - 26382
1707 S GROVE AVE STE D
ONTARIO, CA 91761-4539

WANG - P.O. # 100868

MATERIAL CERTIFICATION

CUSTOMER ORDER NUMBER	ITEM	OF	CUSTOMER JOB NUMBER	DATE SHIPPED
26382	1	1		11/17/2006
PART NUMBER	**B/P NUMBER**		**F.O.B. SCOT FORGE VIA**	**DATE PREPARED**
NMR Cylinder			INWAY	11/20/2006

DESCRIPTION OF MATERIAL AND SPECIFICATIONS

Material	6061-T6 Aluminum			
Destructive Test	None			
Finish	Forge with allowance to finish			
Reference	Part Number: NMR Cylinder			
Size	OD	ID	Length	(inches)
	27.5	19.29	100.157	
Surface	Forged	Forged		

NO. OF PIECES 1 **HEAT NUMBER** 65165 (MILL - VISTA METALS CORP)
(MSDS PREVIOUSLY SENT

Mn	Si	Cr	Cu	Al	Fe	Mg	Ti	Zn
0.069	0..689	0.137	0.278	97.326	0.398	0.943	0.034	0.081

We certify that the material listed was not processed with mercury bearing instruments and/or equipment which might cause contamination, nor was mercury handled in the immediate vicinity during the manufacturing process.

Testing, inspection, and documentation in accordance with EN 10204:2004 Type 3.1 and ISO 10474 Type 3.1.B

Material provided has been produced by Scot Forge under an approved quality program as defined within the Scot Forge QA Manual, Revision Dated 10/11/04

The recording of false, fictitious or fraudulent statements or entries on this document may be punishable as a felony under Federal Statute

The products supplied are in compliance with the quantity and quality requirements of the purchase order and specifications noted. The test reports represent the actual attributes of the items furnished and the test results are in full compliance with all applicable specifications and order requirements

THIS IS TO CERTIFY THAT THE REPORTED LADLE ANALYSIS (AND/OR TESTS) SHOWN ON THIS REPORT ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY

APPROVED BY: Richard Gabrys
RICHARD GABRYS
QUALITY ASSURANCE DIR.

Mitchell Laboratories
16171 Brock Ave, Unit C Bldg. 8 Fontana, CA 92337-7284 T: 909.429.8063 F: 909.429.8063

CERTIFICATION OF CONFORMANCE

CONTROL No. **F756**

Sold To: RICKARD METALS, INC. - 26382
1707 SO. GROVE STE D&E
ONTARIO CA 91761

ShipTo: WANG - P.O. # 100868

PHONE:

P.O. No. 26382

Customer Shipper No: 0

ContractorsPO: N/A

DATE REC. 11/21/2006

Date Ship: 11/22/2006

ITEM	QTY.REC	QTY.SHIP.	PART NUMBER	PROCESS	MATERIAL	QTY.ACC	QTY.REJ.	STAMP
1	2	2	27.5 OD X 19.29 ID X 100.157 L	ULTRASONIC	6061-T6	2	0	U5
			HEAT # LOT #	DESCRIPTION				
			47331 & 85165					

The above listed items have been inspected and/or processed in accordance with the following specifications and instructions listed below.

MIL-100-1 REV. G, AM. 2

MIL-STD-2154 N/C, TYPE II, CLASS A

We hereby certify that parts/material listed/have been tested to conformance with the specifications noted

Parts, materials,ect. as processed by us shall be resumed to be accepted as satisfactory by you if we are not notified of descrepancies within ten working days of your receipt of the same.

Parts, materials,ect. have not come in contact mercury or mercury compounds at any time during processing at Mitchell Laboratories

R. Murphy UT Level-3

RICKARD METALS, INC.
1707 S. GROVE AVE.
SUITE D E
ONTARIO, CA 91761
(909) 947-4922 FAX: (909) 947-4909

CERTIFICATE OF CONFORMANCE

DATE: 3/1/2007
S/O#: 26382
CUST NO: 100868

CUSTOMER: WANG NMR, INC.
550 NORTH CANYONS PRKWY
LIVERMORE, CA. 94550

QTY	DESCRIPTION	HEAT NUMBER
1 EACH	6061-T6 ALUMINUM	47331/65165
	MICE-C001A DWG. MICE-C0001	

NOTICE

CHEMICAL AND PHYSICAL ANALYSIS FOR ABOVE ITEM (S) ATTACHED THIS MATERIAL IS FREE FROM MERCURY AND RADIUM CONTAMINATION AT TIME OF SHIPMENT. NO WELD REPAIR PERFORMED. THE WILLFUL RECORDING OF FALSE, FICTITOUS OR FRAUDULENT STATEMENTS ON THIS DOCUMENT MAY RESULT AS A FELONY UNDER FEDERAL STATUTES.

Harry Rowe
Manager Quality Control

ORDER NO

547023

RICKARD METALS - 26382
1707 S GROVE AVE STE D
ONTARIO, CA 91761-4539

WANG - P.O. # 100868

MATERIAL CERTIFICATION

CUSTOMER ORDER NUMBER	ITEM	OF	CUSTOMER JOB NUMBER	DATE SHIPPED
26382	1	1		11/17/2006
PART NUMBER	B/P NUMBER		VIA	DATE PREPARED
NMR Cylinder			INWAY	11/20/2006

DESCRIPTION OF MATERIAL AND SPECIFICATIONS

Material	6061-T6 Aluminum			
Destructive Test	None			
Finish	Forge with allowance to finish			
Reference	Part Number: NMR Cylinder			
Size	OD	ID	Length	(inches)
	27.5	19.29	100.157	
Surface	Forged	Forged		

NO. OF PIECES 1 **HEAT NUMBER** 47331 (MILL - VISTA METALS CORP)
(MSDS PREVIOUSLY SENT

Mn	Si	Cr	Cu	Al	Fe	Mg	Ti	Zn
0.054	0.630	0.195	0.269	97.302	0.363	1.044	0.034	0.069

We certify that the material listed was not processed with mercury bearing instruments and/or equipment which might cause contamination, nor was mercury handled in the immediate vicinity during the manufacturing process.

Testing, inspection, and documentation in accordance with EN 10204:2004 Type 3.1 and ISO 10474 Type 3.1.B

Material provided has been produced by Scot Forge under an approved quality program as defined within the Scot Forge QA Manual, Revision Dated 10/11/04

The recording of false, fictitious or fraudulent statements or entries on this document may be punishable as a felony under Federal Statute

The products supplied are in compliance with the quantity and quality requirements of the purchase order and specifications noted. The test reports represent the actual attributes of the items furnished and the test results are in full compliance with all applicable specifications and order requirements

THIS IS TO CERTIFY THAT THE REPORTED LADLE ANALYSIS (AND/OR TESTS) SHOWN ON THIS REPORT ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY

APPROVED BY: Richard Gabrys
RICHARD GABRYS
QUALITY ASSURANCE DIR.

ORDER NO.

547023

RICKARD METALS - 26382
1707 S GROVE AVE STE D
ONTARIO, CA 91761-4539

WANG - P.O. # 100868

MATERIAL CERTIFICATION

CUSTOMER ORDER NUMBER	ITEM	OF	CUSTOMER JOB NUMBER	DATE SHIPPED
26382	1	1		11/17/2006
PART NUMBER	**B/P NUMBER**		**F.O.B. SCOT FORGE VIA**	**DATE PREPARED**
NMR Cylinder			INWAY	11/20/2006

DESCRIPTION OF MATERIAL AND SPECIFICATIONS

Material	6061-T6 Aluminum			
Destructive Test	None			
Finish	Forge with allowance to finish			
Reference	Part Number: NMR Cylinder			
Size	OD	ID	Length	(inches)
	27.5	19.29	100.157	
Surface	Forged	Forged		

NO. OF PIECES 1 **HEAT NUMBER** 65165 (MILL - VISTA METALS CORP)
(MSDS PREVIOUSLY SENT

Mn	Si	Cr	Cu	Al	Fe	Mg	Ti	Zn
0.069	0.68	0.137	0.278	97.326	0.398	0.943	0.034	0.081

We certify that the material listed was not processed with mercury bearing instruments and/or equipment which might cause contamination, nor was mercury handled in the immediate vicinity during the manufacturing process.

Testing, inspection, and documentation in accordance with EN 10204:2004 Type 3.1 and ISO 10474 Type 3.1.B

Material provided has been produced by Scot Forge under an approved quality program as defined within the Scot Forge QA Manual, Revision Dated 10/11/04

The recording of false, fictitious or fraudulent statements or entries on this document may be punishable as a felony under Federal Statute

The products supplied are in compliance with the quantity and quality requirements of the purchase order and specifications noted. The test reports represent the actual attributes of the items furnished and the test results are in full compliance with all applicable specifications and order requirements

THIS IS TO CERTIFY THAT THE REPORTED LADLE ANALYSIS (AND/OR TESTS) SHOWN ON THIS REPORT ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY

APPROVED BY: Richard Gabrys
RICHARD GABRYS
QUALITY ASSURANCE DIR.

Mitchell Laboratories
14571 Beach Ave, Unit C Bldg. 8 Fontana, CA 92337-7284 T:909.429.8882 F: 909.429.8883

CERTIFICATION OF CONFORMANCE

CONTROL No. **F756**

Sold To: RICKARD METALS, INC. - 26382
1707 SO. GROVE STE D&E
ONTARIO CA 91761

ShipTo: WANG - P.O. # 100868

PHONE:

P.O. No. 26382

Customer Shipper No: 0

ContractorsPO: N/A

DATE REC. 11/21/2006

Date Ship: 11/22/2006

ITEM	QTY.REC	QTY.SHIP.	PART NUMBER	PROCESS	MATERIAL	QTY.ACC	QTY.REJ.	STAMP
1	2	2	27.5 OD X 19.29 ID X 100.157 L	ULTRASONIC	6061-T6	2	0	U5
			HEAT # LOT # DESCRIPTION					
			47331 & 65185					

The above listed items have been inspected and/or processed in accordance with the following specifications and instructions listed below.

ML-100-1 REV. G, AM. 2

MIL-STD-2154 N/C, TYPE II, CLASS A

We hereby certify that parts/material listed have been tested in conformance with the specifications noted

Parts, materials,ect. as processed by us shall be assumed to be accepted as satisfactory by you if we are not notified of discrepancies within ten working days of your receipt of the same.

Parts, materials,ect. have not come in contact mercury or mercury compounds at any time during processing at Mitchell Laboratories

R. Murphy UT Level-3

Mike & Steve

1707 S. Grove Avenue Unit D & E
Ontario, California 91761-4523
(909) 947-4922 / Fax: (909) 947-4909
EMAIL: sales@rickardmetals.com
www.rickardmetals.com

Rickard Metals

Fax

TO: WANG NMR, INC. **FROM:** Harry Rowe

ATTN: Dr. Bert Wang **PAGES:** 7 including cover

FAX #: 925-443-0215

REF: Invoice # 26382 **DATE:** 12/5/2006

[X] Urgent [ ] For Review [ ] Quote [ ] Reply [ ] Call

Dr. Wang:

Per our phone conversation yesterday afternoon, attached please find a copy of our invoice, material & test certs, and and photos.

Please review and advise when we may expect payment.

If you have any questions, please contact us.

Thanks,

Harry

invoice

RICKARD METALS, INC.
1707 South Grove Suite D & E
ONTARIO, CALIFORNIA 91761-4539

(909) 947-4922 Fax (909) 947-4909

INVOICE NO. 0026382-IN

PAGE: 1

TO:
WANG NMR, INC.
550 NORTH CANYONS PRKWY
LIVERMORE CA 94550

SHIP TO:
WANG NMR, INC.
550 NORTH CANYONS PRKWY
LIVERMORE CA 94550

0004631

SHIP VIA: BEST WAY

FOB:ONTARIO, CA.

INVOICE DATE	OUR ORDER NO.	YOUR ORDER NO.	TERMS	SALESPERSON
11/22/06	0026386	100868	DUE UPON RECEIPT	H

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
LBS 2.0	0.0 - BACKORDERED	24,000.00	48,000.00
EACH	6061 6061-T6 ALUMINUM		
	HEAT #:47331 qty: 1.0		
	HEAT #:65165 qty: 1.0		
	MICE - C001A		
	DWG. MICE-C0001		
/BOX	BOX CHARGE		.00
	PAYMENT DUE UPON RECEIPT OF INVOICE		

NET INVOICE:	48,000.00
FREIGHT:	.00
SALES TAX:	.00
INVOICE TOTAL:	48,000.00

We Accept: Visa, Master Card & American Express.
e-mail: sales@rickardmetals.com / www.rickardmetals.com

Thank You

White - Original: Yellow - Customer Copy

ORDER NO.

547023

RICKARD METALS
1707 S GROVE AVE STE D
ONTARIO, CA 91761-4539

MATERIAL CERTIFICATION

CUSTOMER ORDER NUMBER	ITEM	DP	CUSTOMER JOB NUMBER	DATE SHIPPED
26382	1	1		11/17/2006
PART NUMBER	B/P NUMBER		F.O.B. SCOT FORGE via INWAY	DATE PROMISED
NMR Cylinder				11/20/2006

DESCRIPTION OF MATERIAL AND SPECIFICATIONS

Material 6061-T6 Aluminum
Destructive Test None
Finish Forge with allowance to finish
Reference Part Number: NMR Cylinder

Size	OD	ID	Length	(inches)
	27.5	19.29	100.157	

Surface Forged Forged

NO. OF PIECES 1 HEAT NUMBER 65165 (MILL - VISTA METALS CORP)
Additional prefix letter stamped on product with heat number is for inventory purposes only and not relevant to heat number (MSDS PREVIOUSLY SENT

Mn	Si	Cr	Cu	Al	Fe	Mg	Ti	Zn
0.069	0.689	0.137	0.278	97.326	0.398	0.943	0.034	0.081

We certify that the material listed was not processed with mercury bearing instruments and/or equipment which might cause contamination, nor was mercury handled in the immediate vicinity during the manufacturing process.

Testing, inspection, and documentation in accordance with EN 10204:2004 Type 3.1 and ISO 10474 Type 3.1.B

Material provided has been produced by under an approved quality program as defined within the QA Manual, Revision Dated 10/11/04

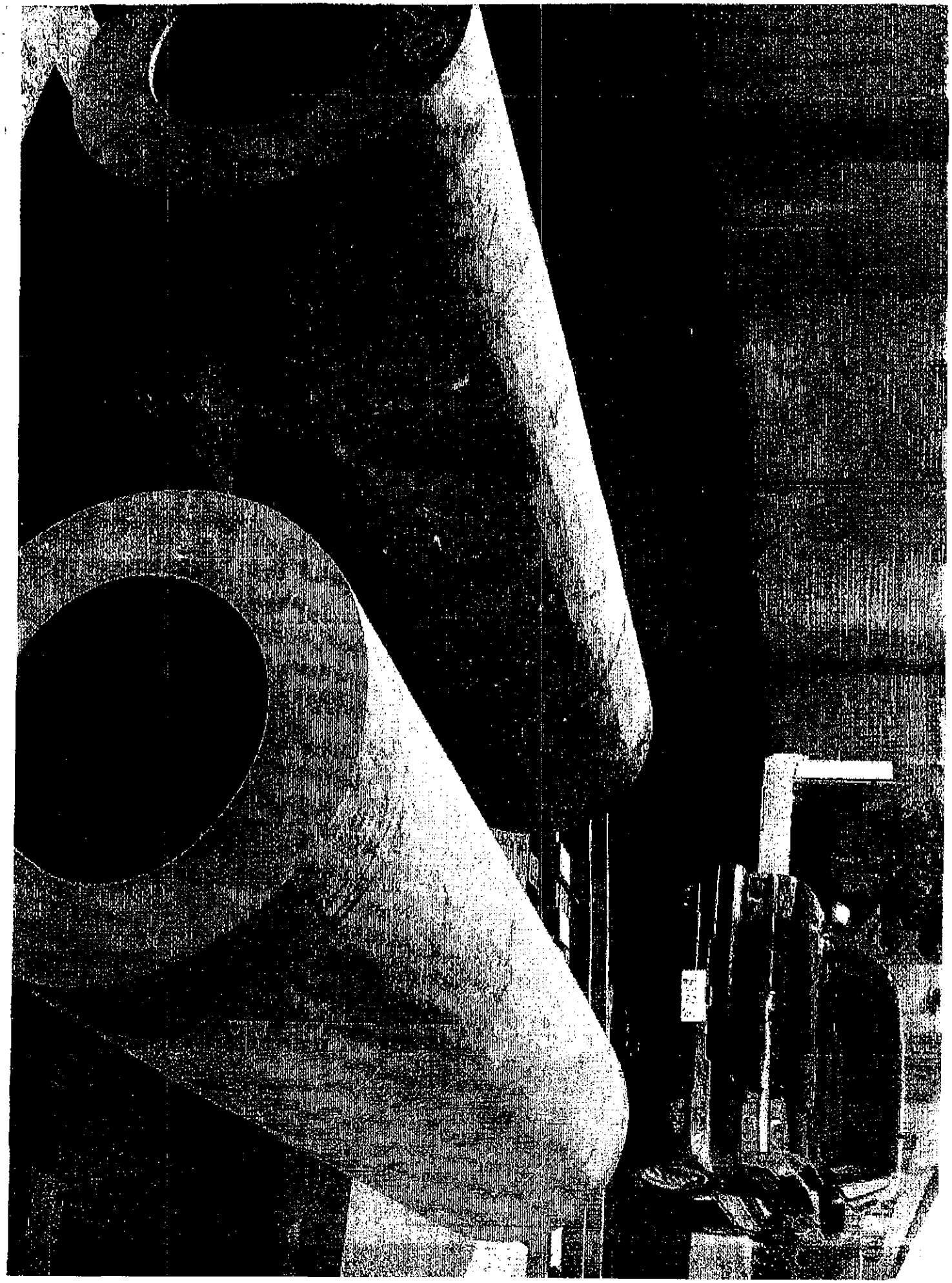
The recording of false, fictitious or fraudulent statements or entries on this document may be punishable as a felony under Federal Statute

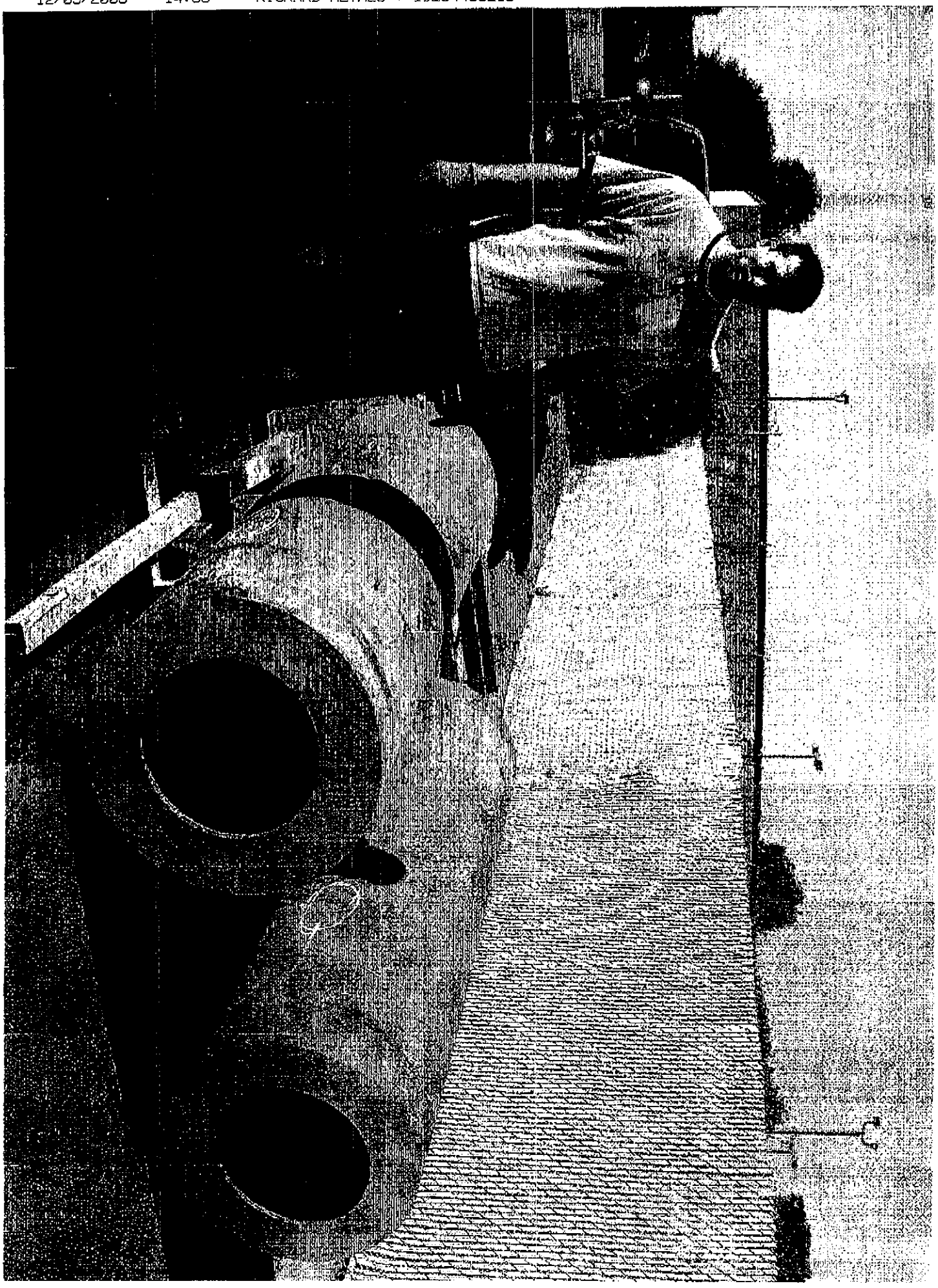
The products supplied are in compliance with the quantity and quality requirements of the purchase order and specifications noted. The test reports represent the actual attributes of the items furnished and the test results are in full compliance with all applicable specifications and order requirements

THIS IS TO CERTIFY THAT THE REPORTED LADLE ANALYSIS (AND/OR TESTS) SHOWN ON THIS REPORT ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY

APPROVED BY: Richard Gabrys

RICHARD GABRYS
QUALITY ASSURANCE DIR.





Mitchell Laboratories
10573 Beech Ave, Unit C Bldg. B Fontana, CA 92337-7304 T:909.429.8803 F: 909.429.8805

CERTIFICATION OF CONFORMANCE

CONTROL No. **F756**

Sold To: RICKARD METALS, INC.
1707 SO. GROVE STE D&E
ONTARIO CA 91761

PHONE:

P.O. No. 26382

Customer Shipper No: 0

ShipTo: RICKARD METALS, INC
1707 SO. GROVE STE D&E
ONTARIO
CA 91761-4523

ContractorsPO: N/A

DATE REC. 11/21/2006

Date Ship: 11/22/2006

ITEM	QTY.REC	QTY.INSP.	PART NUMBER	PROCESS	MATERIAL	QTY.ACC	QTY.REJ.	STAMP
1	2	2	27.5 OD X 19.29 ID X 100.157 L	ULTRASONIC	6061-T6	2	0	U5

HEAT #	LOT #	DESCRIPTION
47331 & 65165		

The above listed items have been inspected and/or processed in accordance with the following specifications and instructions listed below.
ML-100-1 REV. G, AM. 2
MIL-STD-2154 N/C, TYPE II, CLASS A

Wehereby certify that parts/material listed have been tested in conformance with the specifications noted

Parts, materials,ect. as processed by us shall be resumed to be accepted as satisfactory by you if we are not notified of descrepancies within ten working days of your receipt of the same.

Parts, materials,ect. have not come in contact mercury or mercury compounds at any time during processing at Mitchell Laboratories

R. Murphy UT Level-3

Wang NMR Inc.
RECEIVING INSPECTION REPORT

Part # _____ Revision Level ~ Qty Received 1

Date Received 08/20/09 Date Inspected 08/20/09

Part Description 304 S.S. Tubing, 3" OD, 0.125" wall, 6' Length P.O. # 510

Vendor T. W. Metal Vendor Lot # _____

Lot Number ~ RIP- ~ RIP Rev. ~

Visual AQL Good Dimensional, Physical, Functional AQL Conformance

Type of Inspection: ☐ First Article ☒ Full (Non-reduced) ☐ Reduced AQL

☐ Skip Lot

No	Dimension	Equipment Number	Smpl. 1	Smpl. 2	Smpl. 3	Smpl. 4	Smpl. 5
1	3"		3"				
2	0.125"		0.125"				
3	6'		6'				
4							
5		Verify	Material is 304 S.S.				
6							
7							
8							

DESCRIPTION OF NON-CONFORMANCES:

HANDLING/SHIPPING:
COUNT QUANTITY:
VISUAL CHARACTERISTICS:
DIMENSIONAL CHARACTERISTICS:
FUNCTIONAL CHARACTERISTICS:
OTHER:

CIRCLE ONE: (PASS) FAIL IF FAIL, NCR # _____

FINAL DISPOSITION: _____ DATE: _____

INSPECTOR: Lian Xu

Approved By: Xu
Title: QA Engineer

RathGibson, Inc.
2505 FOSTER AVENUE * JANESVILLE, WISCONSIN 53547-0389 U.S.A.
PHONE 608-754-2222, FAX 608-754-0889

CERTIFIED REPORTS OF TESTS - per EN 10204, 3.1

SOLD TO:	TW METALS	**SHIP TO:**	TW METALS - LOS ANGELES	**CUSTOMER ORDER ID**	C219056/1
	PO BOX 644		2211 TUBEWAY AVE	**PURCHASE ORDER NUMBER**	M49204509
				DATE CERTED	11/03/2008 01:23 PM
	EXTON , PA		LOS ANGELES , CA 90040	**SHIP VIA**	ABF / COLLECT

DESCRIPTION	3.000" X 0.120" AVG TP304/TP304L SA249/A249/A269/A554	**ITEM NUMBER**	JT3000108S30403300020
PRODUCT TYPE	WELDED TUBE, BRIGHT SOLUTION ANNEALED	**QUANTITY IN FEET**	100
HEAT TREATMENT	1900F (1040C) MIN, QUENCHED IN INERT GAS ATM	**NUMBER OF PIECES**	5
		MELT ORIGIN	USA
REVISION DATE	ASME SA249-E07, A08 ASTM A249-04a, A269-07, A554-03	**MELT PRACTICE**	EAM / AOD
COMMENTS	Material is FAR BAA, DFARS BAA, FAR TAA compliant		

MANUFACTURED IN USA

CHEMICAL ANALYSIS (WT%)

Heat #	C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
975846	0.0160	1.51	0.033	0.0140	0.44	18.2	8.1	0.37	0.53	0.15	0.060
975846											

POSITIVE MATERIAL ID
OK (ASTM E1476)

TW METALS
TEST REPORTS
NOV 13 2008
ACCEPTED BY

MECHANICAL TEST

YIELD STRENGTH (0.2% OFFSET)		TENSILE STRENGTH		ELONGATION (% IN 2")	HARDNESS	
P.S.I. 51320	M.P. A. 354	P.S.I. 90875	M.P.A. 627	62	RB	83
P.S.I. 49340	M.P.A. 340	P.S.I. 89670	M.P.A. 618	62	RB	83

FLANGE TEST - PASS | REVERSE BEND - PASS | REVERSE FLATTENING - PASS | DIMENSIONS - PASS

FLATTENING TEST - PASS | FLARE TEST - PASS | EDDY CURRENT - PASS

ADDITIONAL TEST:

ATTEST:

RathGibson, Inc. does not use mercury, lead, sulfur or any special metal alloy which is liquid at ambient temperature in its product or facility. There are no known detrimental materials in the line marking ink. Weld repair was not used to manufacture this product. RathGibson's stainless steel tubing manufacturing process does not use any of the products targeted in the U.S. Clean Air Act of 1990, and is compliant with the European Community RoHS Directive 2002/95/EC.
We hereby testify that the material described herein has been inspected and tested to be in accordance with the applicable specifications as stated in the "ORDER DATA" portion of this report. Technical inquiries regarding this form should be directed to the Technical Services Group. All other assistance concerning this certification should be directed to the preparer (see below).

Cert ID : 217064-2008-11-3

MTR8-01 Rev. 4 Rev. Date 3/29/2006

Carl Kettermann, Senior Inspector

BY Peggy Truesdill

Peggy Truesdill, MILL CERTIFICATION

CONSIGNEE Please note-This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

MSDS -- Material Safety Data sheets for this product have been supplied to your Purchasing Department and can also be down loaded from www.RathGibson.com CAUTION: Processing that results in fumes, dust or solutions may cause lung disease. See Material Safety Data Sheets for Additional Information.

SHALL NOT REPRODUCE -- This certificate of test results shall not be reproduced, except in full, without express written approval of RathGibson, Inc.

Wang NMR Inc.
RECEIVING INSPECTION REPORT

Part # 212-PL61 Revision Level — Qty Received 4

Date Received 08/21/09 Date Inspected 08/21/09

Part Description 2.5" X 12" X 17.5" plate 6061 T651 Al P.O. # 507

Vendor Coast Aluminum Vendor Lot # 1785666

Lot Number — RIP- — RIP Rev. —

Visual AQL Good Dimensional, Physical, Functional AQL Conformance

Type of Inspection: ☐ First Article ☒ Full (Non-reduced) ☐ Reduced AQL

☐ Skip Lot

No	Dimension	Equipment Number	Smpl. 1	Smpl. 2	Smpl. 3	Smpl. 4	Smpl. 5
1	2.5"		2.5"	2.5"	2.5"	2.5"	
2	12"		12"	12"	12"	12"	
3	17.5"		17.5"	17.5"	17.5"	17.5"	
4							
5		Verify Material as 6061 T6 Aluminum					
6							
7							
8							

DESCRIPTION OF NON-CONFORMANCES:

HANDLING/SHIPPING:
COUNT QUANTITY:
VISUAL CHARACTERISTICS:
DIMENSIONAL CHARACTERISTICS:
FUNCTIONAL CHARACTERISTICS:
OTHER:

CIRCLE ONE: (PASS) FAIL IF FAIL, NCR # _____

FINAL DISPOSITION: _____ DATE: _____

INSPECTOR: Tian Xu

SHIP TO:
COAST ALUMINUM & ARCHITECTURAL
10628 FULTON WELLS
SANTA FE SPRINGS, CA 90670

SOLD TO:
COAST ALUMINUM & ARCHITECTURAL
P.O. BOX 2144
SANTA FE SPRINGS, CA 90670

KAISER ALUMINUM
Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4167293

CUSTOMER PO NUMBER:	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RUN/LOAD ID:	GOV'T CONTRACT NUMBER:
C0539 - 01-04			101588/17	

KAISER ORDER NO:	LINE ITEM:	SHIP DATE:	ALLOY:	CLAD:	TEMPER:	PRODUCT DESCRIPTION:
1084767	4	24-JUL-2009	6061	BARE	T651	KaiserSelect® Plate

WEIGHT SHIPPED:	QUANTITY:	S/L NUMBER:	GAUGE:	DIAMETER/WIDTH:	LENGTH:
10496 LB	4 PCS EST.	2023441	2.5000 IN	72.500 IN	144.500 IN

Certified Specifications

AMS 4027/RevN
ASTM B 209/Rev07
AMS-QQ-A-250/11/RevA
ASME SB 209/Rev2004

Test Code: 1511

Test Results

Lot: 475145A9 Cast 732 **Drop 39** **Ingot 1**

(ASTM E8/B557)
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T651	LT / 2 (Min:Max)	47.9 : 48.1 (330 : 332)	42.4 : 42.6 (292 : 294)	13.0 : 13.2

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR		OTHER
Actual	0.72	0.6	0.29	0.04	1.1	0.21	0.19	0.01	0.01	0.00	TOT	0.04

ALLOY LIMITS

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
6061 MIN	0.40	0.0	0.15	0.00	0.8	0.04	0.00	0.00	0.00	0.00	EACH	0.05
MAX	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

TEST NOTES

6061 sheet or plate certified to AMS 4025, AMS 4026, or AMS 4027 also meets applicable requirements of AMS-QQ-A-250/11, Rev. A.

KAISER ALUMINUM
Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4167293

CERTIFICATION

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE UNITED STATES OF AMERICA OR A QUALIFYING COUNTRY PER DFARS 225.872-1(b), WAS MANUFACTURED IN THE UNITED STATES OF AMERICA, AND MEETS THE REQUIREMENTS OF DFARS 252.225 FOR DOMESTIC CONTENT. THIS MATERIAL HAS BEEN INSPECTED, TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. ALL METAL WHICH IS SOLUTION HEAT TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF KAISER ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. ISO-9001:2000 CERTIFIED.

BILL POYNOR, LABORATORIES SUPERVISOR

Bill Poynor

Wang NMR, Inc.

550 North Canyons Parkway, Livermore, A, 94551
Tel: 925 - 443 - 0212 Fax: 925 - 443 - 0215 E-mail: sales@wangnmr.com

To: Steve Virostek Copy : Mike Zisman, Bert Wang

From: Bob Wahrer Date: Thursday, October 01, 2009

Subject: **CALIBRATION ACCURACY of TEMPERATURE SENSORS**

From: LAKESHORE data http://www.lakeshore.com/temp/sen/sd400_oi.html

1.0. SILICON DIODE. Type DT-470-CU-XX-YY (0.313 dia. washer type)
XX = Tolerance Band per "Standard Curve 10". YY = Calibration code.

ACCURACY for STANDARD TOLERANCE BAND (Uncalibrated)

BAND XX	Temperature Range		
	2K to 100 K	100 K to 305 K	305 K to 475 K
11	+/- 0.25 K	+/- 0.5 K	+/- 1.0 K
11A	+/- 0.25 K	+/- 1 %	+/- 1 %
12	+/- 0.5 K	+/- 1.0 K	+/- 2.0 K
12A	+/- 0.5 K	+/- 1 %	+/- 1 %
13	+/- 1.0 K	+/- 1 %	+/- 1 %

- Tolerance band (13) has a possible error of +/- 1.0 K.
  This may be excessive for our use.
- Band (12A), +/- 0.5 K, would be a better choice. DT-470-CU-12A @ $287.00 each.
- Possibly use band (11A), +/- 0.25 K.
  [No price or availability given on Lakeshore web site.]
- Note, bands (12) & (13), [without (A)], provide improved accuracy above 100K.
  This should not be necessary.
- Additional calibration is not required. [No "YY" suffix.]
  Calibration would improve accuracy to +/- 0.012 K, which is not necessary.

2.0. PLATINUM RESISTOR. Type PT-102.

Standard, uncalibrated, sensor is suitable. Accuracy is +/- 0.6 ^{O}C from -200 ^{O}C to + 200 ^{O}C.