ALGOMA STEEL INC. 105 West St., Sault Ste. Marie, Ontario, Canada, P6A 7B4

0001187

CUSTOMER PURCHASE ORDER NUMBER	ENTRY DATE	SHIP DATE	TALLY NUMBER	SHIPPERS NUMBER	CARRIER	MILL ORDER
P000449	2006/08/17	2006/10/16	251548	02-	TRANSPORT MADIGAN TRUCKING-466	13486

CUSTOMER SPECIFICATION
HR PLATE - CARBON - ASME SA516 GR 70 (04) - PVQ - FLATNESS 1/2 A-20

SUPPLEMENTARY INSTRUCTIONS
FAX SM/TR TO ANN 519-837-2227

INSP T/R TEST REPORTS REQUIRED P.O. # 9764

CUST USE RESALE

MILL TEST REPORTS APPROVED BY Q.C.

2006/10/16 18:07

MILL TEST REPORTS

ALGOMA STEEL INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN HEREIN AS CONTAINED IN THE COMPANY RECORDS AND AND WITHIN THE SCOPE OF ACCREDITATION OF ISO/IEC GUIDE 17025-1999 AS CONTAINED IN THE COMPANY RECORDS.

J. Johnston
MANAGING METALLURGIST

THIS MILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ALGOMA STEEL INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705)945-2624 COLLECT FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.

MEETS EN 10204 3.1.B AND DIN 50049 3.1.B
MEETS ISO 9001:2000 REGISTERED
ALL HEATS FULLY KILLED
HEATS INDICATED WITH (*) FINE GRAINED

* PRODUCT SHIPPED *

CUSTOMER ITEM 1 OUR ITEM 001 DIMENSIONS .750 X 96 X 384 "

PLATE NUMBER	HEAT	NO. PIECES	WEIGHT	PLATE NUMBER	HEAT	NO. PIECES	WEIGHT
56365	7101E-03	1	7840				

* MECHANICAL PROPERTIES *

TENSILE TESTS:

HEAT	PLATE NUMBER	* SAMPLE * SRCE	GAUGE	* * TEST * * COND	METH	DIR	YIELD KSI	TENSILE KSI	% ELONG
7101E	56365	166"	.7500	AR	.2	T	51.5	80.0	23(8")

* CHEMICAL PROPERTIES *

HEAT	C / TI	MN / SN	P / N	S / AS	SI / ZR	CR / PB	NI / SB	CU	MO	AL	CB	V	B	LAB ALG
7101E*	.24 / .001	1.04	.013	.005	.28	.14	.02	.03	.01	.031	.000	.004		

WARNING THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE CHEMICAL ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIRMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.

891562 58-05

NUCOR
PLATE MILL

P.O.Box 279
Winton, NC 27986
(252) 358-3700

Mill Test Report

Page 1

NUCOR
It's our Nature

Issuing Date: 06/03/2005 B/L No.: 100407 Load No.: 102219 Our Order No.: 35300/2 Cust. Order No.: 894

Vehicle No: LW 62010

Specification: 0.5000" x 96.000" x 240.000"
ASTM A516 70-05/ASME SA516 70-90 FVQ 2004

Sold To: ARTCO STEEL CORPORATION
711 Westchester Ave
FAX 914-288-5411
WHITE PLAINES,NY 10604

Ship To: ARTCO C/O CN METALS DISTRIBUTION CENTER
McMILLAN STEEL YARD
STATION #41977/ TRACK #W110
RAIL DEST: HAMILTON TRANSFER
TORONTO,ON M5W2X5

P 516-GR70 1/2" 96" x 240"

Markings:

Heat No	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Alz	V	Nb	Ti	N	Ca	B	Sn	CEQ	PCM
5103743	0.19	1.08	0.009	0.002	0.21	0.22	0.06	0.08	0.03	0.027	0.008	0.003	0.001	0.0097	0.0016	0.0006	0.010	0.41	0.27
5103744	0.18	1.05	0.010	0.002	0.20	0.22	0.06	0.09	0.03	0.027	0.009	0.003	0.001	0.0070	0.0000	0.0005	0.011	0.40	0.26

Tensile Test							Charpy Impacts											
Plate Serial No	Pieces	Dir.	(psi) Yield	(psi) Tensile	Elongation % in 2"	Elongation % in 8"	Dir.	1	(%) shear	2	(%) shear	3	(%) shear	Ave.	(%) shear	Size	Temp	Min Ave.
5103743-08	12	T	60,100	79,700		18.3												
5103743-09	12	T	52,600	76,500		23.3												
5103744-04	12	T	55,700	76,900		24.6												
5103744-02	12	T	52,700	76,900		24.5												
5103744-06	4	T	49,900	75,000		23.8												

Precision Metal Works
PO # 06-8044-552
ANIK # 15590

Manufactured to fully killed fine grain practice. Welding or weld repair was not performed on this material.
Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast as-rolled discrete plate.
Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/6)+((Cr+Mo+V)/5)+((Cu+Ni)/15)
Pcm = C+(Si/20)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B
Melted and manufactured in the USA. ISO 9001-2000 certified (#12443-0) by SRI Quality System Registrar (#0985-09).
DIN 50049 3.1.B/EN 10204 3.1.B compliant. For ABS grades only, Quality Assurance certificate No. 03-MMPQA-182

We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with the applicable specifications.

T. A. Depretis
T. A. Depretis, Metallurgist

06/09/2005 9:25:52 AM

NORTH AMERICAN STAINLESS

METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

Certificate: 13292 3

Customer: 007185 001

Precision Metalworks Ref 06-8044-550
Anik Ref 15523

Date: 9/07/2006 Page: 1

Steel: 304/304L

Finish: BRAP

Your Order: 5203

NAS Order: PN 0000878 04

Corrosion: ASTM A262/02aE;180Band-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL PLATE, HOT ROLLED, ANNEALED AND PICKLED.
ASTMA240/06a,480/06,666/03,ASMESA240/04-A05,480/04-A05,SA666/04
QQS766D-A X MGPRM,AMS5511H/AMS5513H XMRK,MIL4043B,AMD3,X CRNMEAS

REMARKS:

Material free from mercury contamination. No weld repairs.
EN 10204 3.1 PED 97/23/EC Annex1, Para. 4.3 QQS763F Cond A
Material is RoHS-Compliant

Product Id	Plate#	Thickness	Width	Weight	-------Length------		Mark	Pieces	Commodity Code
080LW3 FA	080LW3 FA	.7550	60.0000	3,150	PLATE	240.00	1	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa)

Heat	CM	C	CR	CU	MN	MO	N	NI	P	S	SI
0LW3	US	.024	18.289	.347	1.648	.547	.077	8.144	.030	.001	.240

MECHANICAL PROPERTIES

Product Id#	Plate#	l o c	d i r	UTS KSI	.2% YS KSI	ELONG %-2"	Hard RB	A 262 Pr A
080LW3 FA	080LW3 FA	F	T	84.34	35.50	65.63	74.50	1.00

QC ENGINEER [signature] 9/12/2006
ERIC HESS

INDUSTEEL
Groupe Arcelor
Tél.: 00 32/71/44.16 64
Fax: 16.28
INDUSTEEL Belgium
B.P 1739 - B-6030 CHARLEROI

TOLES LAMINEES A CHAUD
HOT ROLLED PLATES
WARMGEWALZTE BLECHE
LAMIERE LAMINATE A CALDO

INDUSTEEL EST ISO 9001 (CERT. 0136-2002, VALID 24/03/05) + MAQ REV 9 DU 10/06/04
INDUSTEEL IS ISO 9001 (CERT. 0136-2002, VALID 24/03/05) + QUALREV 9 DU 10/06/04

Certificat de conf. le des produits par l'usine : 3.1B
Mill test certificate : EN 10204
Pr fzeugnis : ISO 10474
Certificato di controllo interno dei prodotti :

CLIENT / CUSTOMER / BESTELLER / CLIENTE

SUPERIOR ALLOY TECHNOLOGY CO.
60 CHEMIN DU TREMBLAY
H8 6Z5 BOUCHERVILLE

REFERENCE / PURCHASER ORDER / BESTELL NR / RIFERENZA
4003 (04-63)

COMMANDE USINE NR. / ORDER NR. / WERKS NR / ORDINE NR.
2776407

CCPU - CERTIFICATE - PRFZEUGNIS - CERTIFICATO
333749

BORDEREAU / DELIVERY / VERSANDANZEIGE / BORDERO
247548

ORDONNANCE DE LOCTION / INSPECTION / LAUFNUMMER / NUMERO DI ORDINE DI COLLAUDO
Industeel Belgium

PRODUIT - ARTICLE - PR FUGEGENSTAND - PRODOTTO : **TOLES - PLATES - BLECHE - LAMIERE**

MATIERE / MATERIAL / WERKSTOFF / MATERIALE	SUIVANT / ACCORDING TO / ENTSPRECHEND / SECONDO
TYPE 304 / S30400	ASTM A 240 Ed.03a
TYPE 304L / S30403	ASTM A 240 Ed.03a
TYPE 304 / S30400	ASME SA 240 Ed.01+Add.02 acc to SA 480
TYPE 304L / S30403	ASME SA 240 Ed.01+Add.02 acc to SA 480

ETAT DE LIVRAISON / STATE OF DELIVERY / Hypertrempe - Solution annealed - 1. Lösungsglühen und abgeschreckt - Ipertempra 1050/1100 C
LIEFERZUSTAND / STATO DI FORNITURA

PROCEDE D'ELABORATION / MELTING PROCESS / ERSCHMELZUNGSART / PROCEDIMENTO DI ELABORAZIONE **E + VOD - Finish : no 1 - C2 - II a**

MARQUAGE / MARKING / KENNZEICHNUNG / IDENTIFICAZIONE

- VG (MOLE PRODUCTEUR - NUANCE - NR COULEE - NR TOLE - IDENTIFIANT DE L'EXPERT
- VG (TRADE MARK) - GRADE - HEAT NR. - PLATE NR. - INSPECTOR - STAMP
- VG (HERSTELLERZEICHEN - MARKENBEZEICHNUNG - SCHMELZE NR - BLECH NR - STEMPEL DES SACHVERST KOCHEN
- VG (MOLE PRODUCTIONE) - TIPO - NR COLATA - NR LAMIERA FUNZIONE DEL COLLAUDATORE

MARQUE DU FABRICANT / BRAND OF THE MANUFACTURER / HERSTELLERZEICHEN / MARCA DEL PRODUTTORE **G or VG**

POINTON DE L'EXPERT / INSPECTOR'S STAMP / STEMPEL DES SACHVERSTMOGEN - FUNZIONE DEL COLLAUDATORE **R or RF**

Liste descriptive - Extent of material delivery - Umfang der Lieferung - Descrizione del materiale

Marque / Mark / Zeichen / Marca	Nombre / Number / Stückzahl / Quantità	Désignation du produit / Article / Gegenstand / Tipo di prodotto	N° de la Plaque N / Blechnr / Lamiera N	N coulée / Heat N / Schmelznr / N colata	N éprouvette / Test N / Probe Nr / Provetta N	Kg / Tricor.
1- 030117596220	1	240.*x96.*x1.75*	265712/1->1	59641	265712.5001	5285

Résultats de l'inspection et du contrôle de dimensions : SANS REMARQUE.
Results of surface examination and dimensions controls : NO REMARK.
Ergebnis der Besichtigung und Mißkontrollen : OHNE BEANSTANDUNG.
Risultati delle ispezione e del controllo di dimensioni : SENZA OSSERVAZIONE.

ESSAIS MECANIQUES - ANALYSES CHIMIQUES
MECHANICAL TESTS - CHEMICAL ANALYSIS
PR FUNGEN - CHEMISCHE ZUSAMMENSETZUNG
PROVE MECCANICHE - ANALISI CHIMICHE

Ep(mm)	COULEE HEAT	ESSAIS SAMPLES	T (C)	ETAT *	Traction transversale / Transverse tensile test		
					Rp0.2% N/mm2	Rm/UTS N/mm2	A 50 %
44.45	59641	265712.5001	20	0	286	595	43
Ep(mm)	COULEE HEAT	ESSAIS SAMPLES	T (C)	ETAT *	Dureté BRINELL 3000 Kg / BRINELL Hardness 3000 Kg		
					HB 10	HB 10	HB 10	HB MOY
44.45	59641	265712.5001	20	0	167	165	154	162

COULEE HEAT	C	Mn	P	S	Si	Ni	Cr	N			
59641	0.028	1.885	0.025	0.0017	0.436	8.218	18.412	0.0961			

*ETAT : 0 -> ETAT DE LIVRAISON / AS DELIVERY

mercury free, no weld repair

Precision Metal Works
Ref: 06-8044-550

Anik Ref: 15523

Nous certifions que les produits décrits ci-dessus sont conformes aux prescriptions de la commande
We hereby certify that the above mentioned products are consistent with the order prescriptions.
Wir best tigen hiermit da die obenerwähnten Erzeugnisse den Bestellungsvorschriften entsprechen.
Certifichiamo che i prodotti menzionati qui sopra sono conformi alle prescrizioni dell' ordine.

Date - Datum - Data
15-DEC-2004

Q.C. Manager
INDUSTEEL D'ERMILO, MICHEL
Belgium

Mill Inspector
BAVET ALEXANDRA

NORTH AMERICAN STAINLESS

METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

Certificate: 13630 3

Customer: 007185 001

Precision Metal Works ref: 06-8044550
Anik ref: 15523

Date: 9/18/2006 Page: 1

Steel: 304/304L

Finish: HRAP

Your Order: 5203

NAS Order: PM 0000878 05

Corrosion: ASTM A262/02aE/180Bend-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL PLATE, HOT ROLLED, ANNEALED AND PICKLED.
ASTMA240/06a,480/06,666/03,ASMESA240/04-A05,480/04-A05,SA666/04
QQS766D-A X MGPRM,AMS5511H/AMS5513H XMRK,MIL4043B,AMD3,X CRNMEAS.

REMARKS:

Material free from mercury contamination. No weld repairs.
EN 10204 3.1 PED 97/23/EC Annex1, Para. 4.3 QQS763F Cond A
Material is RoHS-Compliant

Product Id	Plate#	Thickness	Width	Weight		Length	Mark	Pieces	Commodity Code
030MV8 BB	030MV8 BB	1.2575	60.0000	5,265	PLATE	240.00	4	1	

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa)

Heat	CM	C	CR	CU	MN	MO	N	NI	P	S	SI
0MV8	US	.023	18.494	.571	1.684	.334	.084	8.202	.029	.001	.315

MECHANICAL PROPERTIES

Product Id#	Plate#	loc	dir	UTS KSI	.2% YS KSI	ELONG %-2"	Hard RB	A 262 Pr A
030MV8 BB	030MV8 BB	F	T	84.91	43.29	57.45	83.50	1.00

QC ENGINEER [signature] 9/18/2006

ERIC HESS

ALGOMA STEEL INC. 105 West St., Sault Ste. Marie, Ontario, Canada, P6A 7B4

000118

CUSTOMER PURCHASE ORDER NUMBER	ENTRY DATE	SHIP DATE	TA[illegible]MBER	SHIPPERS NUMBER	CARRIER	MILL ORDER
P0[illegible]19	2006/08/17	2006/10/16	2[illegible]48	02-	TRANSPORT MADIGAN TRUCKING-466	13486

Precision Metal Works
Ref: 06-8044-552

Anik ref: 15596

CUSTOMER SPECIFICATION
HR PLATE - CARBON - ASME SA516 GR 70 (04) - PVQ - FLATNESS 1/2 A-20

MILL TEST REPORTS

ALGOMA STEEL INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN HEREIN AS CONTAINED IN THE COMPANY RECORDS AND AND WITHIN THE SCOPE OF ACCREDITATION OF ISO/IEC GUIDE 17025-1999 AS CONTAINED IN THE COMPANY RECORDS.

J. Johnston
MANAGING METALLURGIST

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SUPPLEMENTARY INSTRUCTIONS

FAX SM/TR TO ANN 519-837-2227

MILL TEST REPORTS
APPROVED BY Q.C.

INSP T/R TEST REPORTS REQUIRED P.O.# 9764

CUST USE RESALE

2006/10/16 18:07

MEETS EN 10204 3.1.B AND DIN 50049 3.1.B
MEETS ISO 9001:2000 REGISTERED
ALL HEATS FULLY KILLED
HEATS INDICATED WITH (*) FINE GRAINED

* P R O D U C T S H I P P E D *

CUSTOMER ITEM 1 OUR ITEM 001 DIMENSIONS .750 X 96 X 384 "

PLATE NUMBER	HEAT	NO. PIECES	WEIGHT	PLATE NUMBER	HEAT	NO. PIECES	WEIGHT
56365	7101E-03	1	7840				

* * * * * * * * * * * * * * * * * * M E C H A N I C A L P R O P E R T I E S * * * * * * * * * * * * * * * * *

TENSILE TESTS:

HEAT	PLATE NUMBER	* SAMPLE * SRCE	GAUGE	* * TEST * * COND	METH	DIR	YIELD KSI	TENSILE KSI	% ELONG
7101E	56365	166*	.7500	AR	.2	T	51.5	80.0	23(8")

* C H E M I C A L P R O P E R T I E S * * * * * * * * * * * * * * * * * *

HEAT	C / TI	MN / SN	P / N	S / AS	SI / ZR	CR / PB	NI / SB	CU	MO	AL	CB	V	B	LAB ALG
7101E*	.24 / .001	1.04	.013	.005	.28	.14	.02	.03	.01	.031	.000	.004		

WARNING THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE CHEMICAL ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.

INDUSTEEL
Groupe Arcelor

Tél.: 00 32/71/44.16.84
Fax: 16.26
INDUSTEEL (Belgium)
B.P. 1750 – B-6030 CHARLEROI

TOLES LAMINEES A CHAUD
HOT ROLLED PLATES
WARMGEWALZTE BLECHE
LAMIERE LAMINATE A CALDO

Certificat de contrôle des produits par l'usine : 3.1
Mill test certificate : EN 10204
Prüfzeugnis : ISO 10474
Certificato di controllo interno dei prodotti :

CLIENT / CUSTOMER / BESTELLER / CLIENTE

REFERENCE / FUNCTIONAL ORDER / BESTELL NR / RIFERIMENTO

COMMANDE USINE NR / ORDER NR / WERKE NR / ORDINE NR
9700502

CCPU - CERTIFICATE - PRÜFZEUGNIS - CERTIFICATO
400014

BORDEREAU / DELIVERY / VERSANDANZEIGE / BORDERO

Inducerd belgium

PRODUIT - ARTICLE - PRUFGEGENSTAND - PRODOTTO : TOLES - PLATES – BLECHE - LAMIERE

MATIERE / MATERIAL / WERKSTOFF / MATERIALE	SUIVANT / ACCORDING TO / ENTSPRECHEND / SECONDO
TYPE 304 / S30400	ASTM A 240 Ed.03a
TYPE 304L / S30403	ASTM A 240 Ed.03a
TYPE 304 / S30400	ASME SA 240 Ed.04
TYPE 304L / S30403	ASME SA 240 Ed.04
TYPE 304 Annealed / S30400	ASTM A 666 Ed.00
TYPE 304L Annealed / S30403	ASTM A 666 Ed.00
TYPE 304 Annealed / S30400	ASME SA 666 Ed.01
TYPE 304L Annealed / S30403	ASME SA 666 Ed.01
TYPE 304 / S30400	A.M.S 5513 G
TYPE 304L / S30403	A.M.S 5511 G

ETAT DE LIVRAISON / STATE OF DELIVERY / Hypertempe - Echauffé recuit - Lösungsgeglüht und abgeschreckt - Ipertempato 1050°C/1100°C
LIEFERZUSTAND / STATO DI FORNITURA

PROCEDE D'ELABORATION / MELTING PROCESS / ERSCHMELZUNGSART / PROCEDIMENTO DI ELABORAZIONE **E + VOD - Finish : no 1 - 1D**

LANGAGE / MARKING / KENNZEICHNUNG / IDENTIFICAZIONE

- VO (SIGLE PRODUCTEUR) - MUANCE - NR COULEE - NR TOLE - POSIONE DEL "SOCIO"
- VO (TRADE MARK) - GRADE - HEAT NR. - PLATE NR. - INSPECTOR'S STAMP
- VO (BESTELLER ZEICHEN) - SAMMELBESTELLNUMMER - BCF-NR ZE NR - BLECH NR - STEMPEL DES SACHVERSTÄNDIGEN
- VO (SIGLA PRODUTTORE) - TIPO - NR COLATA - NR LAMIERA - POSIONE DEL COLLAUDATORE

MARQUE DU FABRICANT / BRAND OF THE MANUFACTURER / MARCHIO DEL PRODUTTORE **Q = VG**

FUNCION DE CONTROL / INSPECTORS STAMP / STAMPEL DES SACHVERSTÄNDIGEN - POSIZIONE DEL COLLAUDATORE **R = RF**

Liste descriptive - Extent of material delivery - Listing der Lieferung - Descrizione del materiale

Marque Mark Zeichen Marca	Nombre Number Stückzahl Quantità	Désignation du produit Article Gegenstand Tipo di prodotto	N° de bloc Plate N° Blache Nr Lamiera N°	N° coulée Heat N° Schmelze Nr N° colata	N° épreuve Test N° Probe Nr Provata N°	Kg Théor.
1 -	1	240"x 96"x1"	460980/2-->2	1311	460980.5001	3020

Résultat de l'inspection et du contrôle de dimensions : SANS REMARQUE.
Result of surface examination and dimensions controls : NO REMARK.
Ergebnis der Besichtigung und Maßkontrollen : OHNE BEANSTANDUNG.
Risultati delle ispezione e dei controlli di dimensioni : SENZA OSSERVAZIONE.

INDUSTEEL (Belgium)

ESSAIS MECANIQUES - ANALYSES CHIMIQUES
MECHANICAL TESTS - CHEMICAL ANALYSIS
PRÜFUNGEN - CHEMISCHE ZUSAMMENSETZUNG
PROVE MECCANICHE - ANALISI CHIMICHE

Epaisseur	COULEE HEAT	ESSAIS SAMPLES	TYC(AF)	ETAT *	Traction transversale Transverse tensile test
25.40	1311	460980.5001	20' 68.	0	Rp0.2% Rm/UTS A 50 Esi. Esi % 43.9 : 88.5 70
Epaisseur	COULEE HEAT	ESSAIS SAMPLES	TYC(AF)	ETAT *	Dureté BRINELL 3000 Kg BRINELL Hardness 3000 Kg
25.40	1311	460980.5001	20' 68.	0	HB 10 HB 10 HB 10 HB 10Y 166 171 163 169

Corrosion Intergran A 262 Pract.E(non sensibilisé)->Resultat Satisfaisant . Pas de Fissures
Intergran.Corrosion A 262 Pract.E(not sensitized)->Satisfactory . No Cracks

Corrosion Intergran A 262 pract E (sensibilisé)->Resultat Satisfaisant . Pas de Fissures
Intergran Corrosion A 262 pract E (sensitized)->Satisfactory . No Cracks

COULEE HEAT	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	N	
1311	0.025	1.860	0.028	0.0011	0.401	0.187	8.150	18.140	0.247	0.0137	

*ETAT : 0 -> ETAT DE LIVRAISON
AS DELIVERY

mercury free, no weld repair

Precision Metal Works
inf: 06-8044-550
Anik inf: 15523

Nous certifions que les produits désignés ci-dessus sont conformes aux prescriptions de la commande
We hereby certify that the above mentioned products are consistent with the order prescriptions.
Wir bestätigen hiermit daß die obengenannten Erzeugnisse den Bestellungsvorschriften entsprechen
Con l'istesso che i prodotti menzionati qui sopra sono conformi alle prescrizioni dell'ordine.

Date - Datum - Data	Q.C. Manager	SIII Inspector
15-APR-2006	DESCHEPPER MICHELE	BAYET ALEXANDRA

CERTIFICATION

VULCAN STEAM FORGING CO.
247 RANO STREET
P.O. BOX 87
BUFFALO, NY 14207
Phone: (716) 875-3680 • Fax: (716) 875-3226

PRECISION METAL WORKS
1040 ROUTE 105
NEW BRUNSWICK, CANADA E6L 1B3

Date 12/08/06
PO # 06-8044-554
B/L # 11654
SO # 8206

We hereby certify that the following is a true copy of data, furnished by the mill producer or from tests performed in approved laboratories and conforms to requirements of any specifications listed.

EAT 42521 GRADE 304L

C	MN	P	SA	SI	CR	NI	MO
00.014	01.78	00.031	00.005	00.47	18.50	08.29	00.31

N	CU	CO
0.082	00.37	.15

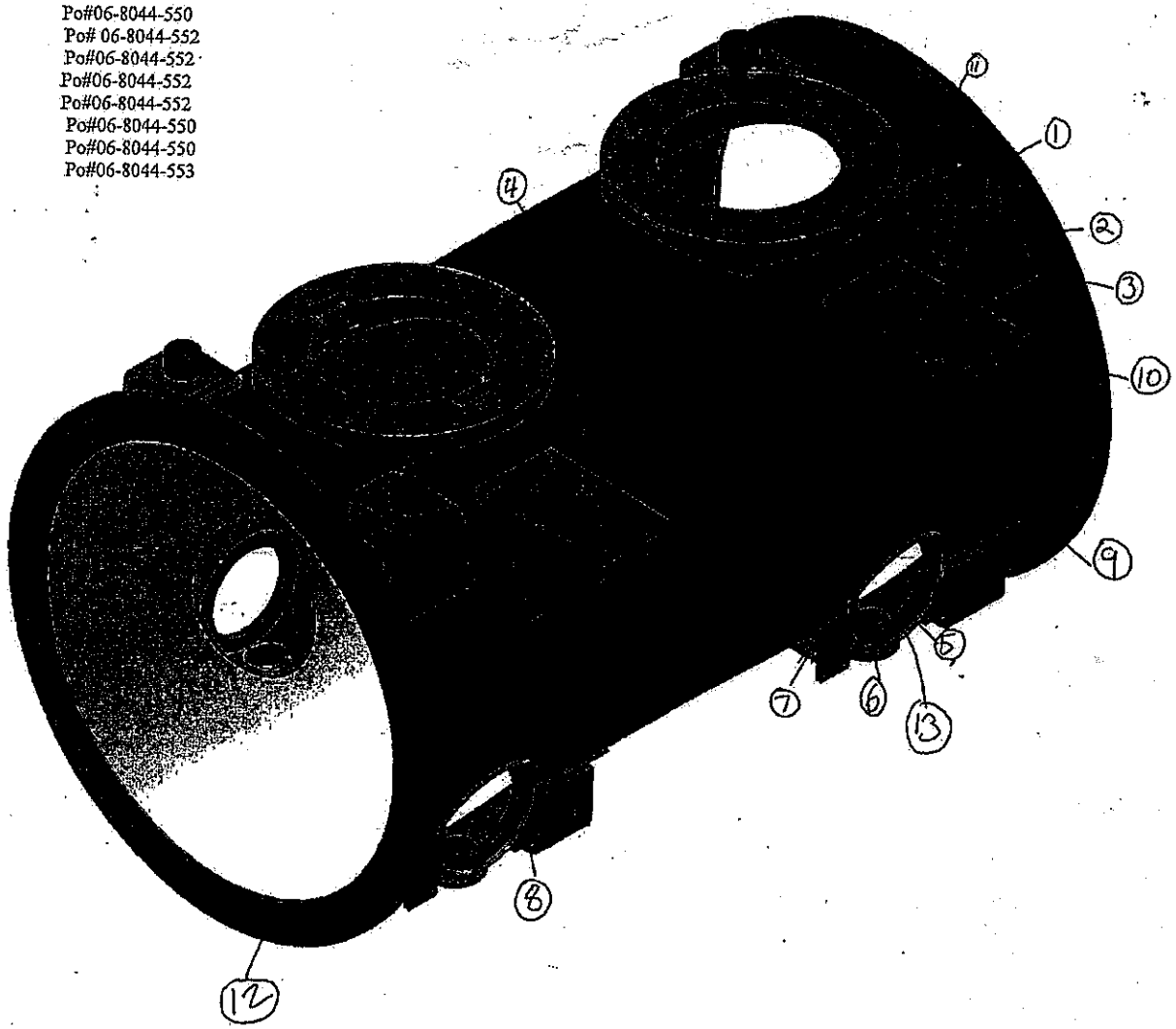
QUANTITY	DESCRIPTION	SPECIFICATIONS
2	FWA 25.20"OD X 15.51"ID X 3.50"LG	A182

HARDNESS	THERMAL TREATMENT
BHN 170	ANNEALED

CHANICAL PROPERTIES:

TENSILE PSI	YIELD PSI	% ELONG	% R.A.
89,400	42,600	73.9	77.2

VULCAN STEAM FORGING CO.

By: M. Moran
Certification Analyst

1) 3.5" astm A516 grade 70	Heat# 42521	Po# 06-8044-554
2) ¾" A36	Heat#	Po# 06-8044-552
3) ¾" astm A516 g70	Heat# 7101E-03	Po#06-8044-552
4) 3/8" astm A516 g70	Heat# 1316	Po#06-8044-552
5) 1" A182 304ss	Heat# 5964	Po#06-8044-550
6) ¾" A182 304ss	Heat# olw3	Po#06-8044-550
7) 3/8" astm A516 g70	Heat# 7101	Po# 06-8044-552
8)1/2" astm A516 g70	Heat# 7101	Po#06-8044-552
9)3/8" A516 g70	Heat# 7101	Po#06-8044-552
10) 3/8" A516 g70	Heat# 7101	Po#06-8044-552
11)1 ¼" 304ss	Heat# 5964	Po#06-8044-550
12) 1 ¼" 304ss	Heat# 5964	Po#06-8044-550
13) 3.5" od x .083 304ss	Heat#	Po#06-8044-553