

Catalina Cylinders

12452 Monarch Street
Garden Grove, CA 92841

Declaration of Conformity according to the European Pressure Equipment Directive 2010/35/EU and conforms with the requirements of the ADR/RID 2011 (PED)

For pressure equipment

The manufacturer herewith declares that the pressure equipment described below complies with the requirements of the Pressure Equipment Directive.

Description:

Aluminum Cylinder for Compressed Breathing Gas

For Application in Breathing Apparatus

Model: S80.3

Volume [L]: 11.1

Test pressure P_H [bar]: 311

Service pressure P_s [bar]: 207

Serial numbers: GV0002720 - GV0002841

Year/month of Manufacture: 2014/02

Applied conformity assessment procedures: Modules B + C1

Applied Standards: ISO 7866; 1999

EC Type Examination Certificate: USA 11-02-189-005

Notified body in charge for monitoring of the final assessment: TUV SUD Industrie
Service GmbH, Westendstr. 199 D-80686 Munchen, NB No: 0036

Date: 2/18/2014

Manufacturer's Stamp: **Catalina**

Name: Bob Lance

Position: Quality Manager

Signature Bob Lance

DATE: 02-18-14

MODEL: S80.3

CERTIFICATE OF CONFORMANCE
Application of ISO 7866:1999

Seamless Aluminum Cylinders Model No. S80.3

MANUFACTURED FOR: STOCK

MANUFACTURED BY: CATALINA CYLINDERS,
7300 ANACONDA AVENUE, GARDEN GROVE, CALIFORNIA 92841

QUANTITY: 122

SERIAL NUMBERS: GV0002720 TO GV0002841

BATCH NUMBER(S): AF759 **HEAT NUMBER(S):** RH0

TECHNICAL DATA:

Service Pressure: 207Bar

Test Pressure: 311 Bar

Nominal Size 184.2 mm OD

Minimum Wall: 12.1 mm

657.9 mm Long (without cap and without valve)

Nominal Volumetric Capacity: 11.1 Liters

CONSTRUCTION: Backward Extrusion to Form a Seamless Shell, the open end is closed by swaging.

MATERIAL AND HEAT TREATMENT: AA Alloy Designation 6061A. Solution Treatment and Artificial Aging to the 6061 T6 Condition

STAMP MARKING: Markings as noted on layout attached to this certificate.

I hereby certify that I have determined the cylinders covered by this Certificate of Conformance have been manufactured in accordance with the requirements of ISO Standard 7866:1999, and have passed all the inspections and tests required by this ISO Standard.

Remarks:

CATALINA CYLINDERS
Garden Grove, CA

Signed: 

Inspector

Date: 02-18-14

PRODUCTION TEST DATA

Measurement of Cylinders

Batch No.	Serial Numbers	Water Capacity	Minimum measured thickness	
AF759	GV0002720- GV0002841	100% Inspected all capacities 11.1L or greater	100% Wall Thickness Inspected all above 12.1 mm minimum	100% Base Thickness Inspected all above 18.7 mm minimum

Mechanical Testing

Batch No.	Serial Numbers	Cast No.				Flattening Test	Burst Test Serial No.	Burst Test (Bar)	Hardness
			Yield Stress (Mpa)	Tensile Stress (Mpa)	Elongation %				
AF759	GV0002720 to GV0002841	RH0	281.4	355.1	28.9	OK	GV0002764	568.8	OK
			335.4	350.1	18.0				

Record of Chemical Analysis of Material for Cylinders

HEAT NO (HEAT CODE)	TYPE OF ANALYSIS (LADLE OR CHECK)	CHEMICAL ANALYSIS									
		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi
RH0	LADLE	.61	.17	.31	.02	.92	.076	.00	.01	.000	.000

Date: 02-18-14

Place: GARDEN GROVE, CALIFORNIA USA

Signature: 
On behalf of Catalina Cylinders

RECORD OF RESIDUAL HYDROCARBON TESTING
(In Accordance with Fed Spec. RR-C-901C)

Lot No.	Serial Number	Total Hydrocarbons (mg)	Regulatory Level Allowed (mg)
AF759	GV0002720	5.5	9.00

Certificate of Residual Hydrocarbon Testing are on file at Manufacturer.

Certifying Entity: **South Coast Pollution Control**

This record of Residual Hydrocarbon Testing is provided for informational purposes only, it is not to be considered a part of the Certificate of Compliance and Test Report to which it is attached, and has not been certified or verified by T.H. Cochrane Laboratories, Ltd.

CYLINDER 100% HARDNESS TEST

Cylinder type: S80.3

Lot number: AF759

Highest reading: 69.9

Lowest reading: 63.2

Sample readings:

63.2	65.7	65.9	67.3	67.9	67.1	68.3	66.7	69.9
------	------	------	------	------	------	------	------	------

Hardness range		
52	to	75

Catalina Cylinders certifies that all cylinders in the above lot number manufactured by Catalina cylinder was 100% hardness tested per the ISO 8766 (11.3) standard

Comments:

Date: 02.17.14

Inspected by: M.A.

Burst Test Form

Specification Information

Specification(s): ISO 7866

Minimum Burst Pressure (B/P): **497bar / 7,200psi**

Specification Section(s): 10.4

1. Rate of pressurization may not exceed 200psi per second throughout entire pressurization.
2. Burst fracture must initiate in the longitudinal direction in the cylindrical portion of the cylinder. The cylinder must not fragment.

Cylinder Information

Cylinder Name: **S80.3**

Size; capacity: 678 cu.in diameter: 184.15mm length: 658.81mm

Pressure; Service: 207bar / 3000psi Test: 311bar / 4500psi

Serial Number (1): GV0002764 Cast #: RHO Lot #: AF759

Serial Number (2): Cast #: Lot #:

Serial Number (3): Cast #: Lot #:


Test Information

Test Date:

Cylinder		Pressure (psi)	Burst Test Results	
Serial Number	State of Manf.		Location	Fragmentation/ Pieces
GV0002764	Hydroed	8,249	LOWER SIDEWALL	NOVE

Notes:

Inspector:

[Signature]  M.A.

Date: 02-18-14

Record Of Hydrostatic Testing

In accordance CGA Pamphlet C-1

Manufacturer: Catalina Cylinders / Garden Grove
Independent Inspector: T. H. Cochrane Labs

Test Date: 17-Feb-14
Day: Monday
Time: 2:08 PM

Cylinder Type: **S80.3**

Test Station: **# 4 Hydro**

Test Pressure (T/P): **4500**

Cylinder Serial Number	Cylinder Lot Number	Hydro Jkt Num	Actual T/P (psi)	Total Expan (cc)	Perm Expan (cc)	Ratio Perm/Tot (%)	Empty Weight (lbs)	Full Weight (lbs)	Volume Capacity (cu in)	Pass or Fail
GV0002720	AF759	1	4500	62.2	0.3	0.5	31.10	55.75	683.79	PASS
GV0002721	AF759	2	4500	62.7	0.2	0.3	31.05	55.80	686.57	PASS
GV0002722	AF759	3	4500	62.4	0.4	0.6	31.05	55.75	685.18	PASS
GV0002723	AF759	4	4500	62.8	0.0	0.0	31.00	55.75	686.57	PASS
GV0002724	AF759	5	4500	62.4	0.4	0.6	31.10	55.75	683.79	PASS
GV0002725	AF759	6	4500	62.8	0.5	0.8	31.05	55.75	685.18	PASS
GV0002726	AF759	1	4500	62.3	0.3	0.5	31.05	55.75	685.18	PASS
GV0002727	AF759	2	4500	62.6	0.0	0.0	31.00	55.75	686.57	PASS
GV0002728	AF759	3	4500	62.1	0.0	0.0	31.05	55.80	686.57	PASS
GV0002729	AF759	4	4500	62.9	0.3	0.5	31.05	55.75	685.18	PASS
GV0002730	AF759	5	4500	62.4	0.3	0.5	31.05	55.75	685.18	PASS
GV0002731	AF759	6	4500	62.6	0.1	0.2	31.05	55.75	685.18	PASS
GV0002732	AF759	1	4500	62.0	0.0	0.0	31.05	55.75	685.18	PASS
GV0002733	AF759	2	4500	62.4	0.0	0.0	31.05	55.75	685.18	PASS
GV0002734	AF759	3	4500	61.8	0.0	0.0	31.05	55.75	685.18	PASS
GV0002735	AF759	4	4500	62.5	0.0	0.0	31.10	55.75	683.79	PASS
GV0002736	AF759	5	4500	61.6	0.0	0.0	31.05	55.75	685.18	PASS
GV0002737	AF759	6	4500	62.3	0.0	0.0	31.05	55.75	685.18	PASS
GV0002738	AF759	1	4500	62.1	0.3	0.5	31.15	55.75	682.40	PASS
GV0002739	AF759	2	4500	62.2	0.0	0.0	31.05	55.85	687.95	PASS
GV0002740	AF759	3	4500	61.8	0.0	0.0	31.05	55.75	685.18	PASS
GV0002741	AF759	4	4500	62.3	0.0	0.0	31.10	55.80	685.18	PASS
GV0002742	AF759	5	4500	61.7	0.0	0.0	31.10	55.80	685.18	PASS
GV0002743	AF759	6	4500	61.8	0.0	0.0	31.05	55.70	683.79	PASS
GV0002744	AF759	1	4520	62.1	0.1	0.2	31.10	55.75	683.79	PASS
GV0002745	AF759	2	4520	62.6	0.0	0.0	31.05	55.75	685.18	PASS
GV0002746	AF759	3	4520	62.1	0.0	0.0	31.05	55.70	683.79	PASS
GV0002747	AF759	4	4520	62.6	0.2	0.3	31.20	55.75	681.02	PASS
GV0002748	AF759	5	4520	61.8	0.1	0.2	31.05	55.85	687.95	PASS
GV0002749	AF759	6	4520	62.4	0.0	0.0	31.05	55.75	685.18	PASS
GV0002750	AF759	1	4500	62.4	0.1	0.2	31.05	55.75	685.18	PASS
GV0002751	AF759	2	4500	62.8	0.0	0.0	31.05	55.80	686.57	PASS
GV0002752	AF759	3	4500	61.9	0.0	0.0	31.15	55.75	682.40	PASS
GV0002753	AF759	4	4500	62.5	0.0	0.0	31.15	55.80	683.79	PASS
GV0002754	AF759	5	4500	62.6	0.0	0.0	31.05	55.80	686.57	PASS
GV0002755	AF759	6	4500	62.4	0.0	0.0	31.10	55.80	685.18	PASS
GV0002756	AF759	1	4520	62.4	0.2	0.3	31.10	55.75	683.79	PASS
GV0002757	AF759	2	4520	62.7	0.2	0.3	31.10	55.80	685.18	PASS
GV0002758	AF759	3	4520	62.2	0.1	0.2	31.10	55.80	685.18	PASS
GV0002759	AF759	4	4520	63.1	0.4	0.6	31.10	55.80	685.18	PASS
GV0002760	AF759	5	4520	62.2	0.1	0.2	31.05	55.80	686.57	PASS
GV0002761	AF759	6	4520	62.6	0.1	0.2	31.05	55.75	685.18	PASS

10

J9

Record Of Hydrostatic Testing

In accordance CGA Pamphlet C-1

Manufacturer: Catalina Cylinders / Garden Grove
Independent Inspector: T. H. Cochrane Labs

Test Date: 17-Feb-14
Day: Monday
Time: 2:08 PM

Cylinder Type: **S80.3**

Test Station: **# 4 Hydro**

Test Pressure (T/P): **4500**

Cylinder Serial Number	Cylinder Lot Number	Hydro Jkt Num	Actual T/P (psi)	Total Expan (cc)	Perm Expan (cc)	Ratio Perm/Tot (%)	Empty Weight (lbs)	Full Weight (lbs)	Volume Capacity (cu in)	Pass or Fail
GV0002762	AF759	1	4500	62.3	0.2	0.3	31.10	55.75	683.79	PASS
GV0002763	AF759	2	4500	62.7	0.8	1.3	31.10	55.75	683.79	PASS
GV0002764	AF759	3	4500	62.0	0.0	0.0	31.10	55.75	683.79	PASS
GV0002765	AF759	4	4500	62.7	0.0	0.0	31.05	55.75	685.18	PASS
GV0002766	AF759	5	4500	62.2	0.1	0.2	31.05	55.75	685.18	PASS
GV0002767	AF759	6	4500	62.5	0.0	0.0	31.05	55.75	685.18	PASS
GV0002768	AF759	1	4500	62.1	0.2	0.3	31.10	55.75	683.79	PASS
GV0002769	AF759	2	4500	62.6	0.1	0.2	31.05	55.80	686.57	PASS
GV0002770	AF759	3	4500	62.0	0.0	0.0	31.10	55.75	683.79	PASS
GV0002771	AF759	4	4500	62.6	0.0	0.0	31.05	55.75	685.18	PASS
GV0002772	AF759	5	4500	61.9	0.0	0.0	31.05	55.75	685.18	PASS
GV0002773	AF759	6	4500	62.1	0.0	0.0	31.05	55.70	683.79	PASS
GV0002774	AF759	1	4500	61.9	0.1	0.2	31.05	55.70	683.79	PASS
GV0002775	AF759	2	4500	62.4	0.0	0.0	31.05	55.70	683.79	PASS
GV0002776	AF759	3	4500	61.5	0.0	0.0	31.05	55.75	685.18	PASS
GV0002777	AF759	4	4500	62.5	0.0	0.0	31.05	55.70	683.79	PASS
GV0002778	AF759	5	4500	61.6	0.0	0.0	31.10	55.70	682.40	PASS
GV0002779	AF759	6	4500	61.6	0.0	0.0	31.05	55.75	685.18	PASS
GV0002780	AF759	1	4500	61.9	0.0	0.0	31.05	55.75	685.18	PASS
GV0002781	AF759	2	4500	62.3	0.0	0.0	31.10	55.75	683.79	PASS
GV0002782	AF759	3	4500	62.2	0.0	0.0	31.05	55.80	686.57	PASS
GV0002783	AF759	4	4500	62.4	0.0	0.0	31.05	55.70	683.79	PASS
GV0002784	AF759	5	4500	61.7	0.0	0.0	31.05	55.70	683.79	PASS
GV0002785	AF759	6	4500	62.2	0.0	0.0	31.00	55.75	686.57	PASS
GV0002786	AF759	1	4500	61.8	0.0	0.0	31.05	55.70	683.79	PASS
GV0002787	AF759	2	4500	62.3	0.0	0.0	31.05	55.70	683.79	PASS
GV0002788	AF759	3	4500	61.6	0.0	0.0	31.00	55.75	686.57	PASS
GV0002789	AF759	4	4500	62.4	0.0	0.0	31.05	55.75	685.18	PASS
GV0002790	AF759	5	4500	61.5	0.0	0.0	31.05	55.70	683.79	PASS
GV0002791	AF759	6	4500	61.8	0.0	0.0	31.05	55.70	683.79	PASS
GV0002792	AF759	1	4500	61.8	0.0	0.0	31.05	55.70	683.79	PASS
GV0002793	AF759	2	4500	62.4	0.0	0.0	31.05	55.75	685.18	PASS
GV0002794	AF759	3	4500	61.8	0.0	0.0	31.05	55.75	685.18	PASS
GV0002795	AF759	4	4500	62.3	0.0	0.0	31.05	55.85	687.95	PASS
GV0002796	AF759	5	4500	61.3	0.0	0.0	31.20	55.70	679.63	PASS
GV0002797	AF759	6	4500	61.9	0.0	0.0	31.05	55.75	685.18	PASS
GV0002798	AF759	1	4500	61.8	0.1	0.2	31.10	55.75	683.79	PASS
GV0002799	AF759	2	4500	62.5	0.0	0.0	31.10	55.70	682.40	PASS
GV0002800	AF759	3	4500	61.8	0.0	0.0	31.05	55.80	686.57	PASS
GV0002801	AF759	4	4500	62.2	0.0	0.0	31.15	55.75	682.40	PASS
GV0002802	AF759	5	4500	61.5	0.0	0.0	31.05	55.70	683.79	PASS
GV0002803	AF759	6	4500	62.1	0.0	0.0	31.05	55.70	683.79	PASS

Record Of Hydrostatic Testing

In accordance CGA Pamphlet C-1

Manufacturer: Catalina Cylinders / Garden Grove
Independent Inspector: T. H. Cochrane Labs

Test Date: 17-Feb-14
Day: Monday
Time: 2:08 PM

Cylinder Type: **S80.3**

Test Station: **# 4 Hydro**

Test Pressure (T/P): **4500**

Cylinder Serial Number	Cylinder Lot Number	Hydro Jkt Num	Actual T/P (psi)	Total Expan (cc)	Perm Expan (cc)	Ratio Perm/Tot (%)	Empty Weight (lbs)	Full Weight (lbs)	Volume Capacity (cu in)	Pass or Fail
GV0002804	AF759	1	4500	62.2	0.1	0.2	31.05	55.70	683.79	PASS
GV0002805	AF759	2	4500	62.5	0.0	0.0	31.05	55.70	683.79	PASS
GV0002806	AF759	3	4500	61.9	0.0	0.0	31.00	55.75	686.57	PASS
GV0002807	AF759	4	4500	62.4	0.0	0.0	31.05	55.70	683.79	PASS
GV0002808	AF759	5	4500	61.8	0.0	0.0	31.05	55.70	683.79	PASS
GV0002809	AF759	6	4500	61.7	0.0	0.0	31.10	55.70	682.40	PASS
GV0002810	AF759	1	4500	62.2	0.0	0.0	31.05	55.75	685.18	PASS
GV0002811	AF759	2	4500	62.5	0.0	0.0	31.10	55.75	683.79	PASS
GV0002812	AF759	3	4500	62.0	0.0	0.0	31.05	55.75	685.18	PASS
GV0002813	AF759	4	4500	62.3	0.0	0.0	31.05	55.75	685.18	PASS
GV0002814	AF759	5	4500	61.6	0.0	0.0	31.10	55.75	683.79	PASS
GV0002815	AF759	6	4500	62.1	0.0	0.0	31.05	55.75	685.18	PASS

Record Of Hydrostatic Testing

In accordance CGA Pamphlet C-1

Manufacturer: Catalina Cylinders / Garden Grove
Independent Inspector: T. H. Cochrane Labs

Test Date: 18-Feb-14
Day: Tuesday
Time: 4:53 AM

Cylinder Type: **S80.3**

Test Station: **# 4 Hydro**

Test Pressure (T/P): **4500**

Cylinder Serial Number	Cylinder Lot Number	Hydro Jkt Num	Actual T/P (psi)	Total Expan (cc)	Perm Expan (cc)	Ratio Perm/Tot (%)	Empty Weight (lbs)	Full Weight (lbs)	Volume Capacity (cu in)	Pass or Fail
GV0002816	AF759	1	4520	62.5	0.0	0.0	31.05	55.75	685.18	PASS
GV0002817	AF759	2	4520	63.0	0.0	0.0	31.05	55.75	685.18	PASS
GV0002818	AF759	3	4520	62.0	0.0	0.0	31.15	55.70	681.02	PASS
GV0002819	AF759	4	4520	62.9	0.0	0.0	31.00	55.70	685.18	PASS
GV0002820	AF759	5	4520	62.2	0.0	0.0	31.05	55.70	683.79	PASS
GV0002821	AF759	6	4520	62.6	0.0	0.0	31.05	55.70	683.79	PASS
GV0002822	AF759	1	4520	62.4	0.0	0.0	31.05	55.70	683.79	PASS
GV0002823	AF759	2	4520	62.6	0.0	0.0	31.10	55.80	685.18	PASS
GV0002824	AF759	3	4520	62.0	0.0	0.0	31.15	55.75	682.40	PASS
GV0002825	AF759	4	4520	62.7	0.0	0.0	31.05	55.80	686.57	PASS
GV0002826	AF759	5	4520	62.3	0.0	0.0	31.05	55.75	685.18	PASS
GV0002827	AF759	6	4520	62.4	0.0	0.0	31.05	55.70	683.79	PASS
GV0002828	AF759	1	4520	62.1	0.0	0.0	31.05	55.70	683.79	PASS
GV0002829	AF759	2	4520	62.4	0.0	0.0	31.10	55.80	685.18	PASS
GV0002830	AF759	3	4520	61.7	0.0	0.0	31.10	55.75	683.79	PASS
GV0002831	AF759	4	4520	62.7	0.0	0.0	31.05	55.80	686.57	PASS
GV0002832	AF759	5	4520	62.0	0.0	0.0	31.10	55.80	685.18	PASS
GV0002833	AF759	6	4520	62.2	0.0	0.0	31.05	55.70	683.79	PASS
GV0002834	AF759	1	4500	62.2	0.1	0.2	31.10	55.80	685.18	PASS
GV0002835	AF759	2	4500	62.7	0.0	0.0	31.10	55.80	685.18	PASS
GV0002836	AF759	3	4500	61.8	0.0	0.0	31.05	55.70	683.79	PASS
GV0002837	AF759	4	4500	62.6	0.0	0.0	31.05	55.80	686.57	PASS
GV0002838	AF759	1	4500	61.9	0.0	0.0	31.10	55.80	685.18	PASS
GV0002839	AF759	2	4500	62.2	0.0	0.0	31.05	55.75	685.18	PASS
GV0002840	AF759	3	4500	61.8	0.0	0.0	31.05	55.80	686.57	PASS
GV0002841	AF759	4	4500	62.3	0.0	0.0	31.05	55.75	685.18	PASS

TC

JQ

ISO

Record Of Mechanical Property Testing

Independent Inspection Agency: T.H. Cochrane Laboratory, Ltd (IA03)
 Manufacturer: Catalina Cylinders / Garden Grove, CA Facility (M4002)

HT Lot # AF759

Friday, February 14, 2014 11:47 AM

Cylinder Type AS80

Cast # RH0

Crosshead Speed 0.11 in/min

Material: 6061

0 degree Pass ☒ Fail ☐

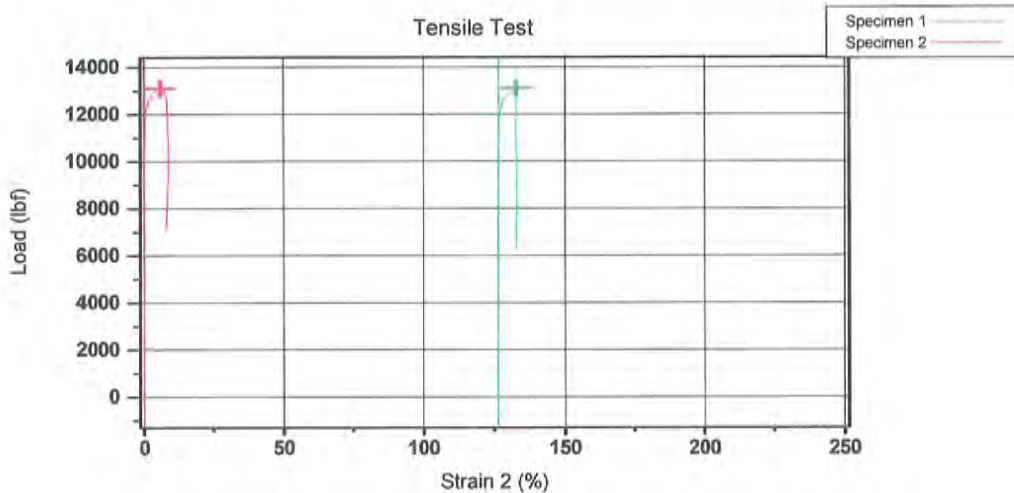
180 degree Pass ☒ Fail ☐

Crush Test Pass ☒ Fail ☐

Specimens tested: 2

Hardness

	Thickness (in)	Width (in)	Area (in ²)	YTS-Load (lbf)	YTS (psi)	UTS-load (lbf)	UTS (psi)	%e (%)
1	0.512	0.497	0.2545	10384.7	40810.3	13107.1	51508.5	28.9
2	0.517	0.499	0.2580	12549.9	48646.3	13097.7	50769.5	18.0



INSPECTOR:

DATE:

Certificat d'analyse / Certificate of Analysis

SHA

Page: 1 / 6

Ref. client / Customer Ref. :

R50441

Commande Rio Tinto Alcan / Rio Tinto Alcan Order

415-0316607-1

Point d'origine / Point of Origin
Rio Tinto Alcan Inc.

USINE SHAWINIGAN
1100 Boul. St-Sacrement
Shawinigan
Québec, Canada
G9N 6W4

Expédie à / Ship to :

CATALINA CYLINDERS
DIVISION OF ALUMINUM PRECISION PRODUCTS
7300 ANACONDA AVE

Vendu à / Sold to :

ALCAN PRIMARY PRODUCTS COMPANY LLC
6150 PARKLAND BLVD., SUITE 200

Date d'exp. / Shipping Date:

2013-06-04

Connaissement / Bill of Lading:

326-099796-080882

Liste d'exp. / Shiplist

80882

Équipement / Equipment:

ICG 978830

Alliage (AA) / Alloy (AA):

69276 (6061)

Produit / Product:

Aluminum Extrusion Ingot

Dimension:

184 MM DIA. X 5485 MM LONG
7.25 IN DIA. X 216 IN LONG

GARDEN GROVE
CA, United States
92841

CLEVELAND, OH

44124-4185

Analyses en % du poids / Analysis in % of weight

No d'échantillon de coulée Sample No of Drop	No Lot Lot No	Poids net (KG) Net Weight (KG)	Poids net (LB) Net Weight (LB)	Pièces Pieces	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Bi	Ga
13490401A	8280580	2,351	5,183	6	0.61	0.17	0.31	0.02	0.92	0.076	0.00	0.01	0.000	0.01
13490401A	8280581	2,352	5,185	6	0.61	0.17	0.31	0.02	0.92	0.076	0.00	0.01	0.000	0.01
13490401A	8280582	2,352	5,185	6	0.61	0.17	0.31	0.02	0.92	0.076	0.00	0.01	0.000	0.01
13490401A	8280583	2,352	5,185	6	0.61	0.17	0.31	0.02	0.92	0.076	0.00	0.01	0.000	0.01
13490401A	8280584	2,352	5,185	6	0.61	0.17	0.31	0.02	0.92	0.076	0.00	0.01	0.000	0.01
13490401A	8280585	2,351	5,183	4	0.61	0.17	0.31	0.02	0.92	0.076	0.00	0.01	0.000	0.01
13490401B	8280586	2,352	5,185	6	0.60	0.17	0.31	0.02	0.91	0.074	0.00	0.01	0.000	0.01

Paquets :

33

Poids net :

KG

LB

76,792

169,297

Pièces :

196

Tare :

KG

LB

678

1,495

Poids brut :

KG

LB

77,470

170,792

Bundles :

Net Weight :

KG

76,792

Pièces :

196

Tare :

KG

678

Poids brut :

KG

77,470

Bundles :

Net Weight :

KG

76,792

Pièces :

196

Tare :

KG

678

Poids brut :

KG

77,470

Bundles :

Net Weight :

KG

76,792

Pièces :

196

Tare :

KG

678

Poids brut :

KG

77,470

LES LINGOTS TRILUX 23KG, LES LINGOTS EN FORME DE T, LES GUEULES, LES LINGOTS DE LAINAGE MIS AU REBUT ET AUTRES LINGOTS DE REFUSION ONT TENDANCE À FORMER DES CAVITÉS SUSCEPTIBLES D'EMPRISONNER DE L'EAU. POUR ÉLIMINER L'HYDROGENE AVANT LEUR EMPLOI, LES LINGOTS DOIVENT ÊTRE CHAUFFÉS À 100°C POUR ÉLIMINER LES RISQUES D'EXPLOSION. LES LINGOTS DEVRAIENT ÊTRE SOUMIS À UN SÉCHAGE INTENSIF PAR CHAUFFAGE PRÉLIMINAIRE AVANT DE LES INCORPORER À LA FUSION. LES TRILUX 23 KG INGOT, TEE INGOT, SCOWS, SCRAPED SHEET INGOT AN OTHER INGOT FOR REMELTING ARE PRONE TO THE FORMATION OF SHRAPNEL CAVITIES WHICH WILL PERMIT ENTRAPMENT OF WATER TO ELIMINATE MOISTURE PRIOR TO USE IN ANY MELTING OPERATION AND TO SAFEGUARD AGAINST POSSIBLE EXPLOSION HAZARDS. INGOTS SHOULD BE THOROUGHLY DRIED BY PREHEATING BEFORE LOADING THEM INTO MOLTEN METAL.

/ Michel Caron

170,792

Imprimé le 2013/06/10 12:55:29

GFC04075C V6.1

LES ANALYSES DE CES ANALYSES EST DANS LES NORMES DES LIMITES COMMERCIALES. THE ANALYSES HERE ARE ACCURATE WITHIN COMMERCIAL LIMITS.

2013

AF759
Lot AF759
02-17-2019
Cyl. 880-ES 133
Type KP ISO

JQ

Vol. 683.79 CU. IN.

Ⓢ

M.A.

91
91-19091A
AF759
USA CATALINA 60002720
M. 246 M. 11 P52078AR-PI31181AR
ES 0033 2018/02 DIVING BREATHING DEV

Lot # AF759