Declaration of Conformity

According to Directive 97/23/EC (PED)

For Pressure Equipment

Catalina Cylinders Inc.

Herewith declares, that the Pressure Equipment

Seamless Extruded Aluminum Cylinders

(Model S63.3, 63cuft, PT 311bar)

Serial Numbers: HJ0000315 – HJ0000365
Year of Manufacturing: 2016

Volume: 63cuft
Test Pressure: 311 bar
Test Medium: Water

Conform to the Pressure Equipment Directive 97/23/EC

Type Approval No: USA-11-01-189-002
EC Certificate of Conformity Number: CCA-1266-007-16002
Applied standard: ISO 7866:2012

Notified body engaged for monitoring of the quality system:
Arrowhead Industrial Services Bourne, Lincolnshire UK
Notified Body Number 1266
Certificate Number ACS-20140522-0-PED

Catalina Cylinders Inc. Garden Grove, California, USA

Miguel Garay
Quality Assurance Manager
February, 2016

arrowhead
Industrial Services Ltd

EC Certificate of Conformity

Certificate №

CCA-1266-007-16004

Manufacturer	Catalina Cylinders Inc.	**Manufacturer's Mark**
Address	12452 Monarch/7300 Anaconda Avenue Garden Grove, CA	**CATALINA**
Country	USA	

Regulation[s]:	PED 97/23/EC
Design Specification:	EN ISO 7866:2012

Inspection Body [Xa]:	Arrowhead Industrial Services Limited		
Address:	Meadow Drove Business Centre, Bourne, Lincolnshire, PE10 0BP, UK		
Identification Number:	1266	**Inspector's Mark**	
Type Approval №:	USA-11-02-189-002		
Cylinder Type:	Seamless aluminium alloy		
Drawing №:	S80.3 GV INT – Family Cylinder model S63.3-HJ		
Manufacturing Batch №:	AM262		
Serial № Range:	**From:** HJ0000315	**To:**	HJ0000365
Total Tested:	51	**Total Accepted:**	51

Customer	Stock
Address	
Country	

The undersigned hereby declare that the Conformity Assessment Requirements of the above referenced Regulations have been carried out satisfactorily and that the cylinders accepted conform to the Design Specification. Test reports are supplied separately.

General Remarks:

Date of Inspection: February, 2016

Signature

IS Body Inspector:

Miguel Garay

Approved by:

Simon Davies

Certifying Inspector

Arrowhead Industrial Services Limited

Signature

S.H. Davies

Digitally signed by Simon Davies
DN: cn=Simon Davies, o=Arrowhead Industrial Services, ou, email=simon.davies@arrowheadis.com, c=GB
Date: 2016.02.17 08:58:12 Z

May not be reproduced in full without approval from Arrowhead Industrial Services and the Manufacturer
www.arrowheadis.com

DATE: 02-16-16 **MODEL:** S63

CERTIFICATE OF CONFORMANCE
Application of ISO 7866:2012

Seamless Aluminum Cylinders Model No. S63

MANUFACTURED FOR: STOCK

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

QUANTITY: 51

SERIAL NUMBERS: HJ0000315 TO HJ0000365

BATCH NUMBER(S): AM262 **HEAT NUMBER(S): SP6**

TECHNICAL DATA:

Service Pressure: 207Bar **Test Pressure:** 311 Bar

Nominal Size 184.2 mm OD **Minimum Wall:** 12.1 mm

551.18 mm Long (without cap and without valve)

Nominal Volumetric Capacity: 9.0 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 EN ISO 7866:2012, and have passed all the inspections and tests required by this ISO Standard.

Remarks: COLTRI SUB

CATALINA CYLINDERS
Garden Grove, CA

Signed: _____
Inspector

Date: 02-16-16

PRODUCTION TEST DATA

Measurement of Cylinders

Batch No.	Serial Numbers	Water Capacity	Minimum measured thickness	
AM262	HJ0000315-HJ0000365	100% Inspected all capacities 9.0L 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.	Yield Stress (Mpa)	Tensile Stress (Mpa)	Elongation %	Flattening Test	Burst Test Serial No.	Burst Test (Bar)	Hardness
AM262	HJ0000315 to HJ0000365	SP6	299.0 297.5	363.7 366.8	22.4 24.0	OK	HJ0000353	590.0	OK

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
SP6	LADLE	.60	.16	.31	.01	.89	.077	.00	.01	.001	.000

Date: 02-16-16

Place: GARDEN GROVE, CALIFORNIA USA

Signature: _____

On behalf of Catalina Cylinders

Record Of Hydrostatic Testing

In accordance CGA Pamphlet C-1

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

Test Date: 10-Feb-16
Day: Wednesday
Time: 8:29 AM

Cylinder Type: **S63-HJ**

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
HJ0000315	AM262	1	4500	51.2	0.0	0.0	26.60	46.65	556.19	PASS
HJ0000316	AM262	2	4500	51.0	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000317	AM262	3	4500	51.5	0.0	0.0	26.55	46.70	558.96	PASS
HJ0000318	AM262	4	4500	51.7	0.0	0.0	26.55	46.70	558.96	PASS
HJ0000319	AM262	5	4500	51.8	0.0	0.0	26.55	46.70	558.96	PASS
HJ0000320	AM262	6	4500	51.6	0.0	0.0	26.55	46.70	558.96	PASS
HJ0000321	AM262	1	4500	51.1	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000322	AM262	2	4500	51.1	0.0	0.0	26.55	46.70	558.96	PASS
HJ0000323	AM262	3	4500	51.4	0.0	0.0	26.50	46.65	558.96	PASS
HJ0000324	AM262	4	4500	51.6	0.0	0.0	26.55	46.65	557.57	PASS
HJ0000325	AM262	5	4500	51.8	0.0	0.0	26.55	46.70	558.96	PASS
HJ0000326	AM262	6	4500	51.3	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000327	AM262	1	4500	51.4	0.0	0.0	26.50	46.65	558.96	PASS
HJ0000328	AM262	2	4500	51.6	0.0	0.0	26.55	46.70	558.96	PASS
HJ0000329	AM262	3	4500	51.3	0.0	0.0	26.60	46.75	558.96	PASS
HJ0000330	AM262	4	4500	51.6	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000331	AM262	5	4500	51.9	0.0	0.0	26.55	46.70	558.96	PASS
HJ0000332	AM262	6	4500	51.4	0.0	0.0	26.55	46.70	558.96	PASS
HJ0000333	AM262	1	4500	51.5	0.0	0.0	26.50	46.65	558.96	PASS
HJ0000334	AM262	2	4500	51.1	0.0	0.0	26.65	46.70	556.19	PASS
HJ0000335	AM262	3	4500	51.3	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000336	AM262	4	4500	51.6	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000337	AM262	5	4500	51.8	0.0	0.0	26.60	46.65	556.19	PASS
HJ0000338	AM262	6	4500	51.5	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000339	AM262	1	4520	51.7	0.0	0.0	26.50	46.65	558.96	PASS
HJ0000340	AM262	2	4520	51.1	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000341	AM262	3	4520	51.6	0.0	0.0	26.55	46.65	557.57	PASS
HJ0000342	AM262	4	4520	51.9	0.0	0.0	26.60	46.65	556.19	PASS
HJ0000343	AM262	5	4520	52.0	0.0	0.0	26.55	46.65	557.57	PASS
HJ0000344	AM262	6	4520	51.5	0.0	0.0	26.55	46.65	557.57	PASS
HJ0000345	AM262	1	4500	51.2	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000346	AM262	2	4500	52.2	0.4	0.8	26.55	46.70	558.96	PASS
HJ0000347	AM262	3	4500	51.1	0.0	0.0	26.55	46.65	557.57	PASS
HJ0000348	AM262	4	4500	51.6	0.0	0.0	26.55	46.65	557.57	PASS
HJ0000349	AM262	5	4500	51.7	0.0	0.0	26.55	46.65	557.57	PASS
HJ0000350	AM262	6	4500	51.2	0.0	0.0	26.65	46.75	557.57	PASS
HJ0000351	AM262	1	4500	51.4	0.0	0.0	26.55	46.65	557.57	PASS
HJ0000352	AM262	2	4500	51.1	0.0	0.0	26.50	46.60	557.57	PASS
HJ0000353	AM262	3	4500	51.6	0.0	0.0	26.60	46.65	556.19	PASS
HJ0000354	AM262	4	4500	51.8	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000355	AM262	5	4500	51.7	0.0	0.0	26.60	46.65	556.19	PASS
HJ0000356	AM262	6	4500	51.5	0.0	0.0	26.55	46.65	557.57	PASS

Record Of Hydrostatic Testing

In accordance CGA Pamphlet C-1

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

Test Date: 10-Feb-16
Day: Wednesday
Time: 8:29 AM

Cylinder Type: **S63-HJ**

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
HJ0000357	AM262	1	4500	51.2	0.0	0.0	26.55	46.65	557.57	PASS
HJ0000358	AM262	2	4500	51.1	0.0	0.0	26.50	46.65	558.96	PASS
HJ0000359	AM262	3	4500	51.1	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000360	AM262	4	4500	51.6	0.0	0.0	26.60	46.75	558.96	PASS
HJ0000361	AM262	5	4500	51.9	0.0	0.0	26.55	46.70	558.96	PASS
HJ0000362	AM262	1	4500	51.2	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000363	AM262	2	4500	51.2	0.0	0.0	26.55	46.65	557.57	PASS
HJ0000364	AM262	3	4500	52.0	0.6	1.2	26.60	46.70	557.57	PASS
HJ0000365	AM262	4	4500	51.6	0.0	0.0	26.55	46.70	558.96	PASS

Certificat d'analyse / Certificate of Analysis

SHA

Ref. client / CustomerRef. :
R56589

Commande / Order
415-0322071-1

Point d'origine / Point of Origin
SHAWINIGAN ALUMINIUM INC.
1250 Boul. St-Sacrement
Shawinigan
Québec, Canada
G9N 0E3

Expédié à / Ship to :
CATALINA CYLINDERS, INC
7300 ANACONDA AVE

GARDEN GROVE
CA,United States
92841

09-25-15

Vendu à / Sold to :
ALCAN PRIMARY PRODUCTS COMPANY LLC
6150 PARKLAND BLVD., SUITE 200

CLEVELAND,OH
44124-4185

Date d'exp. / Shipping Date:	2015-09-09
Connaissement / Bill of Lading:	376-013792-088553
Liste d'exp. / Shiplist:	88553
Équipement / Equipment :	ICG978712
Alliage (AA) / Alloy (AA) :	69276 (6061)
Produit / Product :	Aluminum Extrusion Ingot
Matériel Client / Customer Part:	6061-0 7.24"
Dimension :	184 MM DIA. X 5486 MM LONG 7.25 IN DIA. X 216 IN LONG

Analyse 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
					Pb	Sn								
15866701C	8316003	2,353	5,187	6	0.60 0.001	0.16 0.000	0.31	0.01	0.89	0.077	0.00	0.01	0.000	0.01
15866701C	8316004	2,353	5,187	6	0.60 0.001	0.16 0.000	0.31	0.01	0.89	0.077	0.00	0.01	0.000	0.01
15866701C	8316005	2,353	5,187	6	0.60 0.001	0.16 0.000	0.31	0.01	0.89	0.077	0.00	0.01	0.000	0.01
15866701C	8316006	2,354	5,190	6	0.60 0.001	0.16 0.000	0.31	0.01	0.89	0.077	0.00	0.01	0.000	0.01
15866701C	8316008	1,167	2,573	3	0.60 0.001	0.16 0.000	0.31	0.01	0.89	0.077	0.00	0.01	0.000	0.01

Paquets : Bundles :	5	Poids net : Net Weight :	KG LB	10,580 23,325	Pièces : Pieces :	27	Tare :	KG LB	102 225	Poids brut : Gross Weight :	KG LB	10,682 23,550

LES LINGOTS TRI-LOK 23KG, LES LINGOTS EN FORME DE T, LES GUEUSES, LES LINGOTS DE LAMINAGE MIS AU REBUT ET AUTRES LINGOTS DE REFUSION ONT TENDANCE À FORMER DES CAVITÉS SUCEPTIBLES D'EMPRISONNER DE L'EAU, POUR ÉLIMINER L'HUMIDITÉ AVANT LEUR EMPLOI DANS TOUT PROCÉDÉ DE FUSION ET POUR PRÉVENIR LES RISQUES D'EXPLOSION, LES LINGOTS DEVRAIENT ETRE SOUMIS A UN SÉCHAGE INTENSIF PAR CHAUFFAGE PRÉLIMINAIRE AVANT DE LES INCORPORER À DU METAL EN FUSION
TRI-LOK 23 KG INGOT, TEE INGOT, SOWS, SCRAPPED SHEET INGOT AN OTHER INGOT FOR REMELTING ARE PRONE TO THE FORMATION OF SHRINKAGE 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

SEP 25 2015

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