

CERTIFICATE OF COMPLIANCE AND TEST REPORTFOR
SEAMLESS ALUMINUM CYLINDERS MANUFACTURED UNDER
U. S. DEPARTMENT OF TRANSPORTATION REGULATIONS.

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

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

CONIGNED TO: CATALINA CYLINDERS
7300 ANACONDA AVENUE, GARDEN GROVE, CALIFORNIA 92841

CYLINDER DESCRIPTION AND DESIGN CRITERIA:

Specification: DOT-3AL3000 Service Pressure: 3000 psi (207 BAR)
Nominal Size 7.25 inches (184.2 mm) OD DOT Test Pressure: 5000 psi
25.9 inches (657.9 mm) Long Minimum Wall: .476 inches (12.090 mm)

Nominal Volumetric Capacity: 678 Cu. In. (11.1 L)

DOT Calculated Stress at test pressure: 32640 psi.

MANUFACTURING PROCESS:

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

MATERIAL AND HEAT TREATMENT: 6061 Aluminum. Solution Treatment and Artificial Aging to the 6061 T6 Condition.**REPORT DETAILS:**

Quantity: 5

Cast Code: NJ7

Lot Numbers: Y385

MARKS STAMPED INTO THE SHOULDER OF THE CYLINDER ARE:

Specification and Service Pressure: DOT 3AL3000

Serial Numbers: BW0003657 to BW0003661 inclusive Test Date: 05-11

Inspector's Mark: 

Manufacturer's Symbol: M4002

Other Marks: CATALINA S80 M25X2 DIVING BREATHING GAS
COLTRI SUB CE0426 PS200BAR TS-20/+60C PT344BAR 14.2 KG

I hereby certify that I have determined the cylinders described on this report comply with the requirements of the U. S. Department of Transportation Specification 3AL.

Remarks:

T. H. COCHRANE LABORATORIES, LTD.
Milwaukee, WI 53225Signed: 

Inspector

Date: MAY 04 2011

NOTE: The cylinders that are the subject of this Test Report have been inspected in accordance with the requirements of the law and the regulations of the Department of Transportation. This Test Report is not to be taken as an indication that said cylinders are or are not safe for use. THIS TEST REPORT DOES NOT CONSTITUTE AN EXPRESS OR IMPLIED WARRANTY.

SERIAL NUMBER RANGE: BW0003657

to

BW0003661

inclusive

SIZE: 7.25 O.D. x 25.9 long.

CYLINDER MANUFACTURER:

CATALINA CYLINDERS

RECORD OF CHEMICAL ANALYSIS OF MATERIAL FOR CYLINDERS

Alloy	Cast Code	Type of Analysis (Ladle or Cast)	CHEMICAL ANALYSIS									
			Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi
6061	NJ7	Ladle	.62	.17	.30	.03	.91	.075	.02	.01	.000	.000

Balance AL Other Elements each <.05, Total <.15

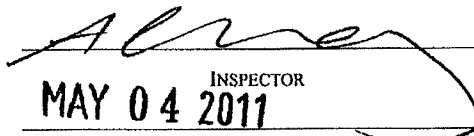
Chemical Analysis and Check Analysis are on file at the Manufacturer. Material Manufacturer: ALCAN

The above analysis has been verified to comply with material authorized by the specification.

RECORD OF PHYSICAL TESTS OF MATERIAL FOR CYLINDERS

LOT NO.	TEST BAR	YIELD STRENGTH IN PSI (MPa)	TENSILE STRENGTH IN PSI (MPa)	% ELONGATION	FLATTENING TEST
Y385	0	43,230 psi (298.1 Mpa)	51,089 psi (352.3 Mpa)	18.6	Pass
	180	41,790 psi (288.1 Mpa)	50,625 psi (349.1 Mpa)	16.0	

Signed:


INSPECTOR

Date:

MAY 04 2011

Location: Garden Grove, California

Record Of Hydrostatic Testing

In accordance CGA Pamphlet C-1

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

Test Date: 3-May-11
Day: Tuesday
Time: 11:05 AM

Cylinder Type: **S80.2 BW**

Test Station: **# 4 Hydro**

Test Pressure (T/P): **5000**

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
BW0003657	Y385	2	5000	71.4	0.2	0.3	30.95	55.55	682.40	P
BW0003658	Y385	3	5000	71.3	0.2	0.3	31.05	55.55	679.63	P
BW0003659	Y385	4	5000	71.5	0.4	0.6	30.95	55.50	681.02	P
BW0003660	Y385	5	5000	70.8	0.0	0.0	30.90	55.55	683.79	P
BW0003661	Y385	6	5000	71.8	1.3	1.8	30.90	55.55	683.79	P

D.L.


T. H. COCHRANE LABORATORIES, LTD.

Signature Page of Certifying Inspector for DOT/TC Certificate of Compliance and Test Report No. CC11-42859

I hereby certify that I have determined the cylinders described on this report comply with the requirements of the U. S. Department of Transportation Specification 3AL, and Transport Canada Specification 3ALM.

T. H. COCHRANE LABORATORIES, LTD.
Milwaukee, Wisconsin

Signed: 
Certifying Inspector

05-03-11

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M. A. O. K.

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