

CERTIFICATE OF COMPLIANCE AND TEST REPORT

FOR

SEAMLESS ALUMINUM CYLINDERS MANUFACTURED UNDER
U. S. DEPARTMENT OF TRANSPORTATION REGULATIONS.MANUFACTURED FOR: CATALINA CYLINDERS
7300 ANACONDA AVENUE, GARDEN GROVE, CALIFORNIA 92841MANUFACTURED BY: CATALINA CYLINDERS
7300 ANACONDA AVENUE, GARDEN GROVE, CALIFORNIA 92841CONSIGNEE 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: 197

Cast Code: NG6

Lot Numbers: Y055

MARKS STAMPED INTO THE SHOULDER OF THE CYLINDER ARE:

Specification and Service Pressure: DOT 3AL3000

Serial Numbers: BW0003284 to BW0003480 inclusive Test Date: 05-11

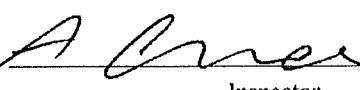
Inspector's Mark: **C**

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: BW0003284

to

BW0003480

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	NG6	Ladle	.59	.16	.29	.03	.87	.070	.00	.01	.001	.000

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

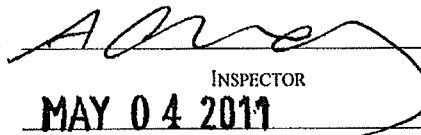
Chemical Analysis and Check Analysis are on file at the Manufacturer. Material Manufacturer: ALCAN

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
Y055	0	44,393 psi (306.1 Mpa)	51,511 psi (355.2 Mpa)	16.0	Pass
	180	48,828 psi (336.7 Mpa)	51,434 psi (354.6 Mpa)	16.5	

Signed:



INSPECTOR

Date:

MAY 04 2011

Location: Garden Grove, California

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

Lot No.	Serial Number	Total Hydrocarbons (mg)	Regulatory Level Allowed (mg)
Y055	BW0003284	4.2	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.

Record Of Hydrostatic Testing

In accordance CGA Pamphlet C-1

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

Test Date: 2-May-11
Day: Monday
Time: 1:55 PM

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
BW0003284	Y055	2	5000	71.5	0.1	0.1	30.95	55.60	683.79	P
BW0003285	Y055	3	5000	71.7	0.4	0.6	30.95	55.60	683.79	P
BW0003286	Y055	4	5000	71.9	0.8	1.1	30.95	55.65	685.18	P
BW0003287	Y055	5	5000	71.3	0.1	0.1	30.90	55.65	686.57	P
BW0003288	Y055	2	5000	71.7	0.1	0.1	31.00	55.75	686.57	P
BW0003289	Y055	3	5000	71.5	0.2	0.3	30.95	55.60	683.79	P
BW0003290	Y055	4	5000	71.7	0.6	0.8	30.95	55.65	685.18	P
BW0003291	Y055	5	5000	71.5	0.4	0.6	30.95	55.60	683.79	P
BW0003292	Y055	2	5000	71.2	0.0	0.0	30.90	55.60	685.18	P
BW0003293	Y055	3	5000	71.4	0.3	0.4	30.95	55.60	683.79	P
BW0003294	Y055	4	5000	71.6	0.5	0.7	30.95	55.65	685.18	P
BW0003295	Y055	5	5000	71.3	0.3	0.4	30.95	55.65	685.18	P
BW0003296	Y055	2	5000	70.9	0.0	0.0	30.95	55.60	683.79	P
BW0003297	Y055	3	5000	71.5	0.3	0.4	30.95	55.60	683.79	P
BW0003298	Y055	4	5000	71.8	0.3	0.4	30.95	55.60	683.79	P
BW0003299	Y055	5	5000	71.7	0.7	1.0	30.95	55.65	685.18	P
BW0003300	Y055	2	5020	71.6	0.0	0.0	31.00	55.75	686.57	P
BW0003301	Y055	3	5020	71.4	0.1	0.1	31.00	55.65	683.79	P
BW0003302	Y055	4	5020	71.6	0.2	0.3	30.95	55.60	683.79	P
BW0003303	Y055	5	5020	71.5	0.2	0.3	30.95	55.65	685.18	P
BW0003304	Y055	2	5020	71.3	0.0	0.0	30.95	55.70	686.57	P
BW0003305	Y055	3	5020	71.4	0.2	0.3	31.00	55.65	683.79	P
BW0003306	Y055	4	5020	71.7	0.1	0.1	30.95	55.55	682.40	P
BW0003307	Y055	5	5020	71.7	0.5	0.7	30.95	55.55	682.40	P
BW0003308	Y055	2	5000	71.0	0.0	0.0	30.90	55.70	687.95	P
BW0003309	Y055	3	5000	71.4	0.1	0.1	30.90	55.70	687.95	P
BW0003310	Y055	4	5000	71.8	0.1	0.1	31.00	55.70	685.18	P
BW0003311	Y055	5	5000	71.5	0.2	0.3	30.95	55.60	683.79	P
BW0003312	Y055	2	5020	71.6	0.1	0.1	31.00	55.60	682.40	P
BW0003313	Y055	3	5020	71.5	0.3	0.4	30.90	55.70	687.95	P
BW0003314	Y055	4	5020	71.8	0.2	0.3	30.90	55.65	686.57	P
BW0003315	Y055	5	5020	71.5	0.4	0.6	31.00	55.70	685.18	P
BW0003316	Y055	2	5000	71.6	0.1	0.1	31.00	55.60	682.40	P
BW0003317	Y055	3	5000	71.8	0.7	1.0	31.00	55.60	682.40	P
BW0003318	Y055	4	5000	71.9	0.4	0.6	30.90	55.70	687.95	P
BW0003319	Y055	5	5000	71.5	0.5	0.7	30.90	55.70	687.95	P
BW0003320	Y055	2	5000	71.2	0.0	0.0	30.95	55.65	685.18	P
BW0003321	Y055	3	5000	71.5	0.1	0.1	31.05	55.75	685.18	P
BW0003322	Y055	4	5000	71.4	0.1	0.1	31.00	55.60	682.40	P
BW0003323	Y055	5	5000	71.6	0.3	0.4	31.00	55.60	682.40	P



Record Of Hydrostatic Testing

In accordance CGA Pamphlet C-1

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

Test Date: 2-May-11
Day: Monday
Time: 1:55 PM

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
BW0003324	Y055	2	5000	71.2	0.0	0.0	30.95	55.60	683.79	P
BW0003325	Y055	3	5000	71.7	0.5	0.7	30.95	55.60	683.79	P
BW0003326	Y055	4	5000	71.8	0.4	0.6	30.95	55.70	686.57	P
BW0003327	Y055	5	5000	71.3	0.2	0.3	30.90	55.75	689.34	P
BW0003328	Y055	2	5000	70.9	0.0	0.0	30.95	55.70	686.57	P
BW0003329	Y055	3	5000	71.5	0.3	0.4	31.00	55.60	682.40	P
BW0003330	Y055	4	5000	71.8	0.3	0.4	30.95	55.65	685.18	P
BW0003331	Y055	5	5000	71.4	0.2	0.3	30.90	55.55	683.79	P
BW0003332	Y055	2	5020	71.5	0.0	0.0	30.95	55.65	685.18	P
BW0003333	Y055	3	5020	71.1	0.0	0.0	30.95	55.70	686.57	P
BW0003334	Y055	4	5020	71.5	0.0	0.0	31.05	55.65	682.40	P
BW0003335	Y055	5	5020	71.2	0.0	0.0	31.05	55.65	682.40	P
BW0003336	Y055	2	5020	71.4	0.0	0.0	31.00	55.60	682.40	P
BW0003337	Y055	3	5020	71.4	0.1	0.1	31.00	55.60	682.40	P
BW0003338	Y055	4	5020	71.5	0.0	0.0	31.00	55.60	682.40	P
BW0003339	Y055	5	5020	71.3	0.2	0.3	31.00	55.65	683.79	P
BW0003340	Y055	2	5020	71.3	0.0	0.0	31.00	55.60	682.40	P
BW0003341	Y055	3	5020	71.5	0.3	0.4	30.95	55.60	683.79	P
BW0003342	Y055	4	5020	71.4	0.4	0.6	30.95	55.60	683.79	P
BW0003343	Y055	5	5020	71.3	0.1	0.1	31.00	55.70	685.18	P
BW0003344	Y055	2	5000	71.5	0.2	0.3	31.00	55.65	683.79	P
BW0003345	Y055	3	5000	71.4	0.2	0.3	30.95	55.60	683.79	P
BW0003346	Y055	4	5000	71.8	0.3	0.4	30.95	55.65	685.18	P
BW0003347	Y055	5	5000	71.3	0.0	0.0	31.00	55.65	683.79	P
BW0003348	Y055	2	5000	71.7	0.2	0.3	30.90	55.65	686.57	P
BW0003349	Y055	3	5000	71.4	0.5	0.7	30.95	55.65	685.18	P
BW0003350	Y055	4	5000	71.7	0.2	0.3	30.95	55.55	682.40	P
BW0003351	Y055	5	5000	71.2	0.0	0.0	31.00	55.65	683.79	P
BW0003352	Y055	2	5000	71.1	0.0	0.0	31.00	55.70	685.18	P
BW0003353	Y055	3	5000	71.1	0.1	0.1	30.95	55.65	685.18	P
BW0003354	Y055	4	5000	70.9	0.0	0.0	30.95	55.70	686.57	P
BW0003355	Y055	5	5000	70.8	0.0	0.0	31.00	55.60	682.40	P
BW0003356	Y055	2	5000	71.7	0.3	0.4	31.00	55.75	686.57	P
BW0003357	Y055	3	5000	72.0	0.7	1.0	31.00	55.70	685.18	P
BW0003358	Y055	4	5000	72.0	0.8	1.1	31.00	55.65	683.79	P
BW0003359	Y055	5	5000	71.7	0.5	0.7	30.95	55.65	685.18	P
BW0003360	Y055	2	5020	71.5	0.0	0.0	31.00	55.75	686.57	P
BW0003361	Y055	3	5020	71.0	0.7	1.0	30.95	55.60	683.79	P
BW0003362	Y055	4	5020	71.9	1.0	1.4	30.95	55.60	683.79	P
BW0003363	Y055	5	5020	71.4	0.1	0.1	31.10	55.65	681.02	P
BW0003364	Y055	2	5000	71.4	0.1	0.1	30.95	55.65	685.18	P

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Record Of Hydrostatic Testing

In accordance CGA Pamphlet C-1

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

Test Date: 2-May-11
Day: Monday
Time: 1:55 PM

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
BW0003365	Y055	3	5000	71.4	0.2	0.3	30.95	55.70	686.57	P
BW0003366	Y055	4	5000	71.3	0.2	0.3	30.95	55.65	685.18	P
BW0003367	Y055	5	5000	71.4	0.2	0.3	30.95	55.65	685.18	P
BW0003368	Y055	2	5000	70.7	0.0	0.0	31.10	55.60	679.63	P
BW0003369	Y055	3	5000	71.1	0.1	0.1	30.95	55.60	683.79	P
BW0003370	Y055	4	5000	71.4	0.0	0.0	31.00	55.65	683.79	P
BW0003371	Y055	5	5000	71.1	0.3	0.4	30.95	55.70	686.57	P
BW0003372	Y055	2	5000	71.1	0.0	0.0	30.95	55.65	685.18	P
BW0003373	Y055	3	5000	71.4	0.1	0.1	30.95	55.60	683.79	P
BW0003374	Y055	4	5000	71.7	0.3	0.4	30.95	55.70	686.57	P
BW0003375	Y055	5	5000	71.5	0.4	0.6	30.90	55.70	687.95	P
BW0003376	Y055	2	5000	71.4	0.0	0.0	30.95	55.75	687.95	P
BW0003377	Y055	3	5000	71.2	0.1	0.1	30.95	55.75	687.95	P
BW0003378	Y055	4	5000	71.4	0.0	0.0	30.95	55.70	686.57	P
BW0003379	Y055	5	5000	71.2	0.0	0.0	30.95	55.70	686.57	P
BW0003380	Y055	2	5000	71.0	0.0	0.0	30.95	55.75	687.95	P
BW0003381	Y055	3	5000	71.4	0.1	0.1	30.95	55.75	687.95	P
BW0003382	Y055	4	5000	71.8	0.3	0.4	30.95	55.70	686.57	P
BW0003383	Y055	5	5000	71.5	0.5	0.7	31.00	55.65	683.79	P
BW0003384	Y055	2	5000	71.3	0.0	0.0	30.95	55.70	686.57	P
BW0003385	Y055	3	5000	71.3	0.0	0.0	30.95	55.70	686.57	P
BW0003386	Y055	4	5000	71.6	0.0	0.0	31.00	55.65	683.79	P
BW0003387	Y055	5	5000	71.4	0.8	1.1	31.00	55.70	685.18	P
BW0003388	Y055	2	5020	71.5	0.3	0.4	30.95	55.70	686.57	P
BW0003389	Y055	3	5020	71.5	0.2	0.3	30.95	55.70	686.57	P
BW0003390	Y055	4	5020	71.5	0.3	0.4	30.95	55.70	686.57	P
BW0003391	Y055	5	5020	71.4	0.4	0.6	30.95	55.75	687.95	P
BW0003392	Y055	2	5020	71.4	0.0	0.0	30.95	55.50	681.02	P
BW0003393	Y055	3	5020	71.4	0.1	0.1	30.95	55.70	686.57	P
BW0003394	Y055	4	5020	71.6	0.1	0.1	31.00	55.70	685.18	P
BW0003395	Y055	5	5020	71.4	0.4	0.6	30.95	55.70	686.57	P
BW0003396	Y055	2	5000	71.1	0.0	0.0	31.00	55.60	682.40	P
BW0003397	Y055	3	5000	71.5	0.2	0.3	30.95	55.65	685.18	P
BW0003398	Y055	4	5000	71.4	0.3	0.4	30.95	55.70	686.57	P
BW0003399	Y055	5	5000	71.5	0.3	0.4	31.00	55.65	683.79	P
BW0003400	Y055	2	5000	71.8	0.3	0.4	30.95	55.75	687.95	P
BW0003401	Y055	3	5000	71.6	0.2	0.3	30.90	55.75	689.34	P
BW0003402	Y055	4	5000	71.7	0.3	0.4	30.95	55.75	687.95	P
BW0003403	Y055	5	5000	71.4	0.2	0.3	31.00	55.75	686.57	P
BW0003404	Y055	2	5020	70.7	0.0	0.0	31.00	55.70	685.18	P
BW0003405	Y055	3	5020	71.3	0.0	0.0	31.00	55.70	685.18	P

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Record Of Hydrostatic Testing

In accordance CGA Pamphlet C-1

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

Test Date: 2-May-11
Day: Monday
Time: 1:55 PM

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
BW0003406	Y055	4	5020	71.7	0.2	0.3	31.00	55.75	686.57	P
BW0003407	Y055	5	5020	71.1	0.0	0.0	30.95	55.60	683.79	P
BW0003408	Y055	2	5000	71.5	0.1	0.1	31.00	55.70	685.18	P
BW0003409	Y055	3	5000	71.5	0.1	0.1	31.00	55.65	683.79	P
BW0003410	Y055	4	5000	71.7	0.2	0.3	31.00	55.70	685.18	P
BW0003411	Y055	5	5000	71.3	0.9	1.3	30.95	55.60	683.79	P
BW0003412	Y055	2	5000	71.6	0.1	0.1	31.00	55.70	685.18	P
BW0003413	Y055	3	5000	71.3	0.2	0.3	31.00	55.65	683.79	P
BW0003414	Y055	4	5000	71.8	0.5	0.7	31.00	55.70	685.18	P
BW0003415	Y055	5	5000	71.6	0.5	0.7	31.00	55.65	683.79	P
BW0003416	Y055	2	5020	70.4	0.0	0.0	30.90	55.55	683.79	P
BW0003417	Y055	3	5020	71.3	0.0	0.0	31.00	55.70	685.18	P
BW0003418	Y055	4	5020	71.4	0.1	0.1	31.00	55.70	685.18	P
BW0003419	Y055	5	5020	71.0	0.0	0.0	30.95	55.55	682.40	P



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: 5:39 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
BW0003420	Y055	2	5000	71.5	0.0	0.0	31.00	55.60	682.40	P
BW0003421	Y055	3	5000	71.1	0.0	0.0	31.00	55.60	682.40	P
BW0003422	Y055	4	5000	71.3	0.0	0.0	30.95	55.55	682.40	P
BW0003423	Y055	5	5000	71.1	0.0	0.0	30.90	55.60	685.18	P
BW0003424	Y055	2	5000	71.8	0.3	0.4	31.00	55.65	683.79	P
BW0003425	Y055	3	5000	71.4	0.2	0.3	30.95	55.65	685.18	P
BW0003426	Y055	4	5000	72.0	0.5	0.7	30.90	55.60	685.18	P
BW0003427	Y055	5	5000	71.6	0.3	0.4	30.90	55.60	685.18	P
BW0003428	Y055	2	5000	71.5	0.1	0.1	31.00	55.70	685.18	P
BW0003429	Y055	3	5000	71.6	0.3	0.4	31.00	55.70	685.18	P
BW0003430	Y055	4	5000	71.8	0.4	0.6	31.05	55.70	683.79	P
BW0003431	Y055	5	5000	71.1	0.2	0.3	30.95	55.70	686.57	P
BW0003432	Y055	2	5000	71.7	0.0	0.0	31.00	55.70	685.18	P
BW0003433	Y055	3	5000	71.2	0.0	0.0	31.00	55.70	685.18	P
BW0003434	Y055	4	5000	71.7	0.1	0.1	30.90	55.60	685.18	P
BW0003435	Y055	5	5000	71.4	0.1	0.1	30.95	55.65	685.18	P
BW0003436	Y055	2	5000	71.6	0.0	0.0	30.90	55.55	683.79	P
BW0003437	Y055	3	5000	71.7	0.1	0.1	31.15	55.75	682.40	P
BW0003438	Y055	4	5000	71.5	0.4	0.6	31.00	55.65	683.79	P
BW0003439	Y055	5	5000	71.5	0.2	0.3	31.00	55.60	682.40	P
BW0003440	Y055	2	5020	71.2	0.0	0.0	30.95	55.65	685.18	P
BW0003441	Y055	3	5020	71.5	0.0	0.0	31.00	55.65	683.79	P
BW0003442	Y055	4	5020	71.7	0.2	0.3	31.00	55.65	683.79	P
BW0003443	Y055	5	5020	71.2	0.0	0.0	31.00	55.65	683.79	P
BW0003444	Y055	2	5000	71.1	0.0	0.0	30.95	55.60	683.79	P
BW0003445	Y055	3	5000	71.3	0.0	0.0	30.95	55.60	683.79	P
BW0003446	Y055	4	5000	71.5	0.0	0.0	31.00	55.70	685.18	P
BW0003447	Y055	5	5000	71.3	0.2	0.3	31.00	55.70	685.18	P
BW0003448	Y055	2	5020	71.4	0.0	0.0	31.00	55.65	683.79	P
BW0003449	Y055	3	5020	71.3	0.1	0.1	30.95	55.60	683.79	P
BW0003450	Y055	4	5020	71.5	0.0	0.0	30.90	55.65	686.57	P
BW0003451	Y055	5	5020	71.4	0.0	0.0	30.90	55.70	687.95	P
BW0003452	Y055	2	5020	71.3	0.0	0.0	30.90	55.65	686.57	P
BW0003453	Y055	3	5020	71.6	0.2	0.3	31.05	55.60	681.02	P
BW0003454	Y055	4	5020	71.7	0.0	0.0	30.95	55.70	686.57	P
BW0003455	Y055	5	5020	71.5	0.1	0.1	30.90	55.65	686.57	P
BW0003456	Y055	2	5000	71.0	0.1	0.1	31.10	55.65	681.02	P
BW0003457	Y055	3	5000	71.3	0.2	0.3	31.00	55.65	683.79	P
BW0003458	Y055	4	5000	71.6	0.1	0.1	31.00	55.70	685.18	P
BW0003459	Y055	5	5000	71.1	0.0	0.0	30.95	55.70	686.57	P

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: 5:39 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
BW0003460	Y055	2	5020	71.6	0.0	0.0	30.95	55.70	686.57	P
BW0003461	Y055	3	5020	71.2	0.1	0.1	31.05	55.65	682.40	P
BW0003462	Y055	4	5020	71.9	0.3	0.4	30.95	55.70	686.57	P
BW0003463	Y055	5	5020	71.5	0.1	0.1	30.90	55.65	686.57	P
BW0003464	Y055	2	5000	71.5	0.1	0.1	30.90	55.65	686.57	P
BW0003465	Y055	3	5000	71.5	0.1	0.1	30.90	55.70	687.95	P
BW0003466	Y055	4	5000	71.6	0.0	0.0	31.00	55.65	683.79	P
BW0003467	Y055	5	5000	71.5	0.1	0.1	31.00	55.65	683.79	P
BW0003468	Y055	2	5020	71.0	0.0	0.0	31.00	55.65	683.79	P
BW0003469	Y055	3	5020	71.4	0.0	0.0	31.00	55.70	685.18	P
BW0003470	Y055	4	5020	71.4	0.0	0.0	30.95	55.65	685.18	P
BW0003471	Y055	5	5020	71.5	0.2	0.3	30.95	55.75	687.95	P
BW0003472	Y055	2	5000	71.1	0.0	0.0	31.00	55.75	686.57	P
BW0003473	Y055	3	5000	70.9	0.0	0.0	31.00	55.75	686.57	P
BW0003474	Y055	4	5000	71.4	0.0	0.0	31.00	55.70	685.18	P
BW0003475	Y055	5	5000	71.2	0.0	0.0	31.00	55.60	682.40	P
BW0003476	Y055	6	5000	70.9	0.0	0.0	30.95	55.65	685.18	P
BW0003477	Y055	2	5000	70.7	0.0	0.0	30.95	55.60	683.79	P
BW0003478	Y055	3	5000	71.3	0.0	0.0	30.95	55.65	685.18	P
BW0003479	Y055	4	5000	71.5	0.0	0.0	31.05	55.60	681.02	P
BW0003480	Y055	5	5000	71.2	0.0	0.0	30.95	55.65	685.18	P

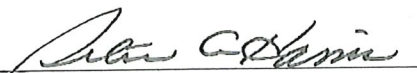
DL

T. H. COCHRANE LABORATORIES, LTD.

Signature Page of Certifying Inspector for DOT/TC Certificate of Compliance and Test Report No. CC11-428560

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

First line
5th off.
DIA
580
5.7.11