

# AEROTECNICA COLTRI® S.P.A.

## DICHIARAZIONE DI CONFORMITA' DECLARATION OF CONFORMITY in accordo all'allegato VII della Direttiva 97/23/CE in accordance to annex VII of the Directive 97/23/CE

Dichiariamo sotto la nostra responsabilità che la progettazione, la fabbricazione, i controlli e le prove della attrezzatura a pressione sotto specificata è conforme alle disposizioni applicabili della Direttiva 97/23/CE.

We declare under our responsibility that the design, manufacturing, inspection and tests of the pressure equipment listed below meet the applicable requirements of the Directive 97/23/CE.

|                                                                 |                                                                              |
|-----------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Descrizione attrezzatura</b><br><i>Equipment description</i> | <b>Bombola per autorespiratori</b><br><i>Cylinder for breather apparatus</i> |
|-----------------------------------------------------------------|------------------------------------------------------------------------------|

| <b>Fam./ Tipo</b><br><i>Fam./Type</i> | <b>N. Fabbica</b><br><i>Serial No.</i> | <b>Capacità (L)</b><br><i>Volume</i> | <b>Disegno N.</b><br><i>Dwg.No.</i> |
|---------------------------------------|----------------------------------------|--------------------------------------|-------------------------------------|
| B1 / S80                              | Da/From BW0000823 a/to BW0001022       | 11,1                                 | B1.DW.01                            |

|                                                                       |           |            |                  |
|-----------------------------------------------------------------------|-----------|------------|------------------|
| <b>Pressione max ammissibile</b><br><i>Max allowable pressure</i>     | <b>PS</b> | <b>bar</b> | <b>200</b>       |
| <b>Temperatura min./max</b><br><i>Min. / Max temperature</i>          | <b>TS</b> | <b>°C</b>  | <b>-20 / +60</b> |
| <b>Pressione di prova idraulica</b><br><i>Hydraulic Test pressure</i> | <b>PT</b> | <b>bar</b> | <b>344</b>       |

|                                                                                                          |                                                           |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <b>Categoria di appartenenza</b><br><i>Applied category according to article 3 and Annex II</i>          | <b>III</b>                                                |
| <b>Procedure di valutazione di conformità utilizzate</b><br><i>Conformity assessment procedures used</i> | <b>B + C1</b>                                             |
| <b>Ente notificato</b><br><i>Notified body</i>                                                           | <b>(n.0426) ITALCERT V.le Sarca, 336 – 20126 Milano I</b> |
| <b>Certificato di esame CE di tipo</b><br><i>EC type-examination certificate</i>                         | <b>PED106 AT 002 Rev. 1</b>                               |
| <b>Attestato di conformità</b><br><i>Conformity certificate module C1</i>                                | <b>PED106 AC 002 Rev. 1</b>                               |
| <b>Norme tecniche utilizzate</b><br><i>Technical standards used</i>                                      | <b>EN 1975<br/>DOT - 3AL<br/>TC - 3ALM</b>                |
| <b>Eventuali altre direttive applicate</b><br><i>Other European Directives applied to the vessel</i>     | <b>-</b>                                                  |

San Martino della Battaglia, 27-04-2009  
*Data/date*

**AEROTECNICA COLTRI S.p.A.**  
*Amministratore*  
**Stefano Coltri**  
*Il Costruttore / Manufacturer*

B1 DC 01 Rev.1

**AEROTECNICA COLTRI® S.P.A.** Sede legale: Via Rio Ponale, 9 - 25010 Rivoltella di Desenzano del Garda (BS) Italy - Stabilimento:  
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Tel. +39 030 9910297 - +39 030 9910301 - Fax +39 030 9910283 - Partita IVA CEE IT 00648210987 - e-mail:  
[coltrisub@coltrisub.it](mailto:coltrisub@coltrisub.it) - Internet: [www.coltrisub.it](http://www.coltrisub.it)

COPY

**CERTIFICATE OF COMPLIANCE AND TEST REPORT**

FOR

SEAMLESS ALUMINUM CYLINDERS MANUFACTURED UNDER  
U. S. DEPARTMENT OF TRANSPORTATION REGULATIONS, AND  
TRANSPORT CANADA REGULATIONS.

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

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

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

**CYLINDER DESCRIPTION AND DESIGN CRITERIA:**

|                                         |                             |                    |                                    |
|-----------------------------------------|-----------------------------|--------------------|------------------------------------|
| Specification:                          | DOT-3AL3000 (TC-3ALM207)    | Service Pressure:  | 3000 psi (207 BAR)                 |
| Nominal Size                            | 7.25 inches (184.2 mm) OD   | DOT Test Pressure: | 5000 psi TC Test Pressure: 311 BAR |
|                                         | 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: 200

Cast Code: LG9

Lot Numbers: T872

**MARKS STAMPED INTO THE SHOULDER OF THE CYLINDER ARE:**

Specification and Service Pressure: DOT 3AL3000

Serial Numbers: BW0000823 to BW0001022 inclusive Test Date: 04-09

Inspector's Mark: 

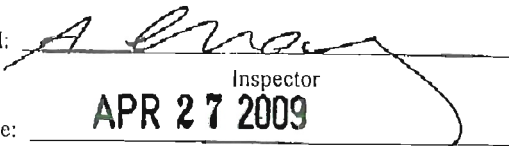
Manufacturer's Symbol: M4002

Other Marks: TC-3ALM207 CATALINA S80 25P  
COLTRI SUB CE0426 PS200 BAR TS-20/+ 60C PT 344 BAR 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, and Transport Canada Specification 3ALM.

Remarks:

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

Signed: 

Inspector

Date:

APR 27 2009

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, and Canada's Transport Canada. 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: **BW0000823** to **BW0001022** 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<br>(Ladle or Cast) | CHEMICAL ANALYSIS |     |     |     |     |      |     |     |      |      |
|-------|-----------|-------------------------------------|-------------------|-----|-----|-----|-----|------|-----|-----|------|------|
|       |           |                                     | Si                | Fe  | Cu  | Mn  | Mg  | Cr   | Zn  | Ti  | Pb   | Bi   |
| 6061  | LG9       | Ladle                               | .58               | .16 | .29 | .01 | .88 | .074 | .00 | .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<br>(MPa) | TENSILE STRENGTH IN PSI<br>(MPa) | % ELONGATION | FLATTENING TEST |
|---------|----------|--------------------------------|----------------------------------|--------------|-----------------|
| T872    | 0        | 43,821 psi (302.1 Mpa)         | 51,843 psi (357.5 Mpa)           | 18.9         | Pass            |
|         | 180      | 45,565 psi (314.2 Mpa)         | 51,962 psi (358.3 Mpa)           | 17.9         |                 |

Signed:

**APR 27 2009** FOR

Date:

Location: Garden Grove, California

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

| Lot No. | Serial Number | Total Hydrocarbons<br>(mg) | Regulatory Level<br>Allowed (mg) |
|---------|---------------|----------------------------|----------------------------------|
| T872    | BW0000823     | 3.4                        | 9.00                             |

Certificate of Residual Hydrocarbon Testing are on file at Manufacturer.

Certifying Entity: **South Coast Pollution Control**

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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: 24-Apr-09

Day: Friday

Time: 10:38 AM

Cylinder Type: **S80.2-BW**

Test Station: **# 4 Hydro**

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

| Cylinder<br>Serial<br>Number | Cylinder<br>Lot<br>Number | Hydro<br>Jkt<br>Num | Actual<br>T/P<br>(psi) | Total<br>Expan<br>(cc) | Perm<br>Expan<br>(cc) | Ratio<br>Perm/Tot<br>(%) | Empty<br>Weight<br>(lbs) | Full<br>Weight<br>(lbs) | Volume<br>Capacity<br>(cu in) | Pass or<br>Fail |
|------------------------------|---------------------------|---------------------|------------------------|------------------------|-----------------------|--------------------------|--------------------------|-------------------------|-------------------------------|-----------------|
| BW0000823                    | T872                      | 1                   | 5000                   | 70.7                   | 0.1                   | 0.1                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000824                    | T872                      | 2                   | 5000                   | 70.3                   | 0.0                   | 0.0                      | 31.30                    | 55.90                   | 682.40                        | P               |
| BW0000825                    | T872                      | 3                   | 5000                   | 69.3                   | 0.0                   | 0.0                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000826                    | T872                      | 4                   | 5000                   | 70.2                   | 0.0                   | 0.0                      | 31.40                    | 56.05                   | 683.79                        | P               |
| BW0000827                    | T872                      | 5                   | 5000                   | 69.0                   | 0.0                   | 0.0                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000828                    | T872                      | 6                   | 5000                   | 70.0                   | 0.0                   | 0.0                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000829                    | T872                      | 1                   | 5000                   | 70.6                   | 0.0                   | 0.0                      | 31.25                    | 55.90                   | 683.79                        | P               |
| BW0000830                    | T872                      | 2                   | 5000                   | 70.3                   | 0.0                   | 0.0                      | 31.40                    | 56.05                   | 683.79                        | P               |
| BW0000831                    | T872                      | 3                   | 5000                   | 69.6                   | 0.0                   | 0.0                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000832                    | T872                      | 4                   | 5000                   | 70.5                   | 0.1                   | 0.1                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000833                    | T872                      | 5                   | 5000                   | 69.4                   | 0.3                   | 0.4                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000834                    | T872                      | 6                   | 5000                   | 69.7                   | 0.3                   | 0.4                      | 31.30                    | 55.90                   | 682.40                        | P               |
| BW0000835                    | T872                      | 1                   | 5000                   | 70.7                   | 0.1                   | 0.1                      | 31.30                    | 55.85                   | 681.02                        | P               |
| BW0000836                    | T872                      | 2                   | 5000                   | 70.4                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000837                    | T872                      | 3                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.30                    | 55.90                   | 682.40                        | P               |
| BW0000838                    | T872                      | 4                   | 5000                   | 70.3                   | 0.1                   | 0.1                      | 31.30                    | 55.90                   | 682.40                        | P               |
| BW0000839                    | T872                      | 5                   | 5000                   | 69.0                   | 0.0                   | 0.0                      | 31.30                    | 55.90                   | 682.40                        | P               |
| BW0000840                    | T872                      | 6                   | 5000                   | 69.5                   | 0.0                   | 0.0                      | 31.30                    | 56.00                   | 685.18                        | P               |
| BW0000841                    | T872                      | 1                   | 5000                   | 70.5                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000842                    | T872                      | 2                   | 5000                   | 70.2                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000843                    | T872                      | 3                   | 5000                   | 69.4                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000844                    | T872                      | 4                   | 5000                   | 70.4                   | 0.3                   | 0.4                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000845                    | T872                      | 5                   | 5000                   | 68.9                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000846                    | T872                      | 6                   | 5000                   | 69.5                   | 0.0                   | 0.0                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000847                    | T872                      | 1                   | 5000                   | 70.6                   | 0.1                   | 0.1                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000848                    | T872                      | 2                   | 5000                   | 70.5                   | 0.2                   | 0.3                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000849                    | T872                      | 3                   | 5000                   | 69.5                   | 0.1                   | 0.1                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000850                    | T872                      | 4                   | 5000                   | 70.2                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000851                    | T872                      | 5                   | 5000                   | 69.2                   | 0.3                   | 0.4                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000852                    | T872                      | 6                   | 5000                   | 70.0                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000853                    | T872                      | 1                   | 5000                   | 70.4                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000854                    | T872                      | 2                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000855                    | T872                      | 3                   | 5000                   | 69.4                   | 0.6                   | 0.9                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000856                    | T872                      | 4                   | 5000                   | 70.2                   | 0.1                   | 0.1                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000857                    | T872                      | 5                   | 5000                   | 69.0                   | 0.1                   | 0.1                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000858                    | T872                      | 6                   | 5000                   | 69.8                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000859                    | T872                      | 1                   | 5000                   | 70.6                   | 0.2                   | 0.3                      | 31.25                    | 56.05                   | 687.95                        | P               |
| BW0000860                    | T872                      | 2                   | 5000                   | 70.2                   | 0.1                   | 0.1                      | 31.25                    | 56.05                   | 687.95                        | P               |
| BW0000861                    | T872                      | 3                   | 5000                   | 69.6                   | 0.0                   | 0.0                      | 31.30                    | 55.90                   | 682.40                        | P               |
| BW0000862                    | T872                      | 4                   | 5000                   | 70.9                   | 0.9                   | 1.3                      | 31.30                    | 55.90                   | 682.40                        | P               |
| BW0000863                    | T872                      | 5                   | 5000                   | 69.0                   | 0.0                   | 0.0                      | 31.25                    | 55.90                   | 683.79                        | P               |
| BW0000864                    | T872                      | 6                   | 5000                   | 69.9                   | 0.0                   | 0.0                      | 31.30                    | 55.95                   | 683.79                        | 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: 24-Apr-09  
Day: Friday  
Time: 10:38 AM

Cylinder Type: **S80.2-BW**

Test Station: **# 4 Hydro**

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

| Cylinder<br>Serial<br>Number | Cylinder<br>Lot<br>Number | Hydro<br>Jkt<br>Num | Actual<br>T/P<br>(psi) | Total<br>Expan<br>(cc) | Perm<br>Expan<br>(cc) | Ratio<br>Perm/Tot<br>(%) | Empty<br>Weight<br>(lbs) | Full<br>Weight<br>(lbs) | Volume<br>Capacity<br>(cu in) | Pass or<br>Fail |
|------------------------------|---------------------------|---------------------|------------------------|------------------------|-----------------------|--------------------------|--------------------------|-------------------------|-------------------------------|-----------------|
| BW0000865                    | T872                      | 1                   | 5000                   | 70.4                   | 0.1                   | 0.1                      | 31.25                    | 55.95                   | 685.18                        | P               |
| BW0000866                    | T872                      | 2                   | 5000                   | 70.2                   | 0.0                   | 0.0                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000867                    | T872                      | 3                   | 5000                   | 69.5                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000868                    | T872                      | 4                   | 5000                   | 70.3                   | 0.5                   | 0.7                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000869                    | T872                      | 5                   | 5000                   | 69.0                   | 0.0                   | 0.0                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000870                    | T872                      | 6                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000871                    | T872                      | 1                   | 5000                   | 70.2                   | 0.0                   | 0.0                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000872                    | T872                      | 2                   | 5000                   | 69.9                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000873                    | T872                      | 3                   | 5000                   | 69.1                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000874                    | T872                      | 4                   | 5000                   | 69.9                   | 0.0                   | 0.0                      | 31.40                    | 56.05                   | 683.79                        | P               |
| BW0000875                    | T872                      | 5                   | 5000                   | 68.7                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000876                    | T872                      | 6                   | 5000                   | 69.6                   | 0.0                   | 0.0                      | 31.30                    | 56.05                   | 686.57                        | P               |
| BW0000877                    | T872                      | 1                   | 5000                   | 70.4                   | 0.2                   | 0.3                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000878                    | T872                      | 2                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.35                    | 55.90                   | 681.02                        | P               |
| BW0000879                    | T872                      | 3                   | 5000                   | 69.5                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000880                    | T872                      | 4                   | 5000                   | 70.2                   | 0.2                   | 0.3                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000881                    | T872                      | 5                   | 5000                   | 68.9                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000882                    | T872                      | 6                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000883                    | T872                      | 1                   | 5000                   | 70.4                   | 0.0                   | 0.0                      | 31.35                    | 56.10                   | 686.57                        | P               |
| BW0000884                    | T872                      | 2                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.35                    | 56.10                   | 686.57                        | P               |
| BW0000885                    | T872                      | 3                   | 5000                   | 69.3                   | 0.0                   | 0.0                      | 31.30                    | 56.05                   | 686.57                        | P               |
| BW0000886                    | T872                      | 4                   | 5000                   | 70.0                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000887                    | T872                      | 5                   | 5000                   | 69.0                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000888                    | T872                      | 6                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000889                    | T872                      | 1                   | 5000                   | 70.5                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000890                    | T872                      | 2                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000891                    | T872                      | 3                   | 5000                   | 69.2                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000892                    | T872                      | 4                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000893                    | T872                      | 5                   | 5000                   | 69.0                   | 0.1                   | 0.1                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000894                    | T872                      | 6                   | 5000                   | 69.8                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000895                    | T872                      | 1                   | 5000                   | 70.4                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000896                    | T872                      | 2                   | 5000                   | 70.0                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000897                    | T872                      | 3                   | 5000                   | 69.1                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000898                    | T872                      | 4                   | 5000                   | 70.3                   | 0.3                   | 0.4                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000899                    | T872                      | 5                   | 5000                   | 68.9                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000900                    | T872                      | 6                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000901                    | T872                      | 1                   | 5000                   | 70.2                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000902                    | T872                      | 2                   | 5000                   | 69.8                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000903                    | T872                      | 3                   | 5000                   | 69.2                   | 0.0                   | 0.0                      | 31.40                    | 56.05                   | 683.79                        | P               |
| BW0000904                    | T872                      | 4                   | 5000                   | 70.0                   | 0.0                   | 0.0                      | 31.40                    | 56.05                   | 683.79                        | P               |
| BW0000905                    | T872                      | 5                   | 5000                   | 68.7                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000906                    | T872                      | 6                   | 5000                   | 69.5                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 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: 24-Apr-09  
Day: Friday  
Time: 10:38 AM

Cylinder Type: **S80.2-BW**

Test Station: **# 4 Hydro**

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

| Cylinder<br>Serial<br>Number | Cylinder<br>Lot<br>Number | Hydro<br>Jkt<br>Num | Actual<br>T/P<br>(psi) | Total<br>Expan<br>(cc) | Perm<br>Expan<br>(cc) | Ratio<br>Perm/Tot<br>(%) | Empty<br>Weight<br>(lbs) | Full<br>Weight<br>(lbs) | Volume<br>Capacity<br>(cu in) | Pass or<br>Fail |
|------------------------------|---------------------------|---------------------|------------------------|------------------------|-----------------------|--------------------------|--------------------------|-------------------------|-------------------------------|-----------------|
| BW0000907                    | T872                      | 1                   | 5000                   | 70.4                   | 0.2                   | 0.3                      | 31.40                    | 55.95                   | 681.02                        | P               |
| BW0000908                    | T872                      | 2                   | 5000                   | 70.0                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000909                    | T872                      | 3                   | 5000                   | 69.2                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000910                    | T872                      | 4                   | 5000                   | 70.2                   | 0.3                   | 0.4                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000911                    | T872                      | 5                   | 5000                   | 68.9                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000912                    | T872                      | 6                   | 5000                   | 69.6                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000913                    | T872                      | 1                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000914                    | T872                      | 2                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000915                    | T872                      | 3                   | 5000                   | 69.1                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000916                    | T872                      | 4                   | 5000                   | 70.0                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000917                    | T872                      | 5                   | 5000                   | 68.8                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000918                    | T872                      | 6                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.30                    | 56.05                   | 686.57                        | P               |
| BW0000919                    | T872                      | 1                   | 5000                   | 70.2                   | 0.1                   | 0.1                      | 31.30                    | 56.00                   | 685.18                        | P               |
| BW0000920                    | T872                      | 2                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000921                    | T872                      | 3                   | 5000                   | 69.3                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000922                    | T872                      | 4                   | 5000                   | 70.3                   | 0.3                   | 0.4                      | 31.40                    | 56.05                   | 683.79                        | P               |
| BW0000923                    | T872                      | 5                   | 5000                   | 69.0                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000924                    | T872                      | 6                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000925                    | T872                      | 1                   | 5000                   | 70.4                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000926                    | T872                      | 2                   | 5000                   | 70.0                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000927                    | T872                      | 3                   | 5000                   | 69.3                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000928                    | T872                      | 4                   | 5000                   | 70.5                   | 0.7                   | 1.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000929                    | T872                      | 5                   | 5000                   | 68.8                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000930                    | T872                      | 6                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000931                    | T872                      | 1                   | 5000                   | 70.3                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000932                    | T872                      | 2                   | 5000                   | 70.0                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000933                    | T872                      | 3                   | 5000                   | 69.2                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000934                    | T872                      | 4                   | 5000                   | 70.2                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000935                    | T872                      | 5                   | 5000                   | 68.9                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000936                    | T872                      | 6                   | 5000                   | 69.6                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000937                    | T872                      | 1                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000938                    | T872                      | 2                   | 5000                   | 69.9                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000939                    | T872                      | 3                   | 5000                   | 69.0                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000940                    | T872                      | 4                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000941                    | T872                      | 5                   | 5000                   | 68.7                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000942                    | T872                      | 6                   | 5000                   | 69.5                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000943                    | T872                      | 1                   | 5000                   | 70.3                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000944                    | T872                      | 2                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000945                    | T872                      | 3                   | 5000                   | 69.3                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000946                    | T872                      | 4                   | 5000                   | 70.4                   | 0.5                   | 0.7                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000947                    | T872                      | 5                   | 5000                   | 69.0                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000948                    | T872                      | 6                   | 5000                   | 69.8                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 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: 24-Apr-09  
Day: Friday  
Time: 10:38 AM

Cylinder Type: **S80.2-BW**

Test Station: **# 4 Hydro**

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

| Cylinder<br>Serial<br>Number | Cylinder<br>Lot<br>Number | Hydro<br>Jkt<br>Num | Actual<br>T/P<br>(psi) | Total<br>Expan<br>(cc) | Perm<br>Expan<br>(cc) | Ratio<br>Perm/Tot<br>(%) | Empty<br>Weight<br>(lbs) | Full<br>Weight<br>(lbs) | Volume<br>Capacity<br>(cu in) | Pass or<br>Fail |
|------------------------------|---------------------------|---------------------|------------------------|------------------------|-----------------------|--------------------------|--------------------------|-------------------------|-------------------------------|-----------------|
| BW0000949                    | T872                      | 1                   | 5000                   | 70.2                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000950                    | T872                      | 2                   | 5000                   | 69.8                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000951                    | T872                      | 3                   | 5000                   | 69.3                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000952                    | T872                      | 4                   | 5000                   | 70.0                   | 0.0                   | 0.0                      | 31.40                    | 56.05                   | 683.79                        | P               |
| BW0000953                    | T872                      | 5                   | 5000                   | 69.0                   | 0.1                   | 0.1                      | 31.40                    | 56.10                   | 685.18                        | P               |
| BW0000954                    | T872                      | 6                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000955                    | T872                      | 1                   | 5020                   | 70.6                   | 0.0                   | 0.0                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0000956                    | T872                      | 2                   | 5020                   | 70.4                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000957                    | T872                      | 3                   | 5020                   | 69.7                   | 0.1                   | 0.1                      | 31.40                    | 55.95                   | 681.02                        | P               |
| BW0000958                    | T872                      | 4                   | 5020                   | 70.4                   | 0.0                   | 0.0                      | 31.40                    | 55.95                   | 681.02                        | P               |
| BW0000959                    | T872                      | 5                   | 5020                   | 69.0                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000960                    | T872                      | 6                   | 5020                   | 69.7                   | 0.0                   | 0.0                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000961                    | T872                      | 1                   | 5000                   | 70.4                   | 0.2                   | 0.3                      | 31.30                    | 56.00                   | 685.18                        | P               |
| BW0000962                    | T872                      | 2                   | 5000                   | 70.3                   | 0.2                   | 0.3                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000963                    | T872                      | 3                   | 5000                   | 69.5                   | 0.3                   | 0.4                      | 31.30                    | 56.00                   | 685.18                        | P               |
| BW0000964                    | T872                      | 4                   | 5000                   | 70.5                   | 0.6                   | 0.9                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000965                    | T872                      | 5                   | 5000                   | 69.1                   | 0.3                   | 0.4                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000966                    | T872                      | 6                   | 5000                   | 69.8                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000967                    | T872                      | 1                   | 5000                   | 70.4                   | 0.2                   | 0.3                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000968                    | T872                      | 2                   | 5000                   | 70.2                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000969                    | T872                      | 3                   | 5000                   | 69.3                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000970                    | T872                      | 4                   | 5000                   | 70.0                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000971                    | T872                      | 5                   | 5000                   | 69.0                   | 0.2                   | 0.3                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000972                    | T872                      | 6                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000973                    | T872                      | 1                   | 5020                   | 70.8                   | 0.2                   | 0.3                      | 31.40                    | 56.05                   | 683.79                        | P               |
| BW0000974                    | T872                      | 2                   | 5020                   | 70.7                   | 0.2                   | 0.3                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000975                    | T872                      | 3                   | 5020                   | 69.9                   | 0.3                   | 0.4                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000976                    | T872                      | 4                   | 5020                   | 70.8                   | 0.4                   | 0.6                      | 31.35                    | 55.90                   | 681.02                        | P               |
| BW0000977                    | T872                      | 5                   | 5020                   | 69.5                   | 0.2                   | 0.3                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000978                    | T872                      | 6                   | 5020                   | 70.2                   | 0.0                   | 0.0                      | 31.35                    | 55.90                   | 681.02                        | P               |
| BW0000979                    | T872                      | 1                   | 5000                   | 70.5                   | 0.2                   | 0.3                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000980                    | T872                      | 2                   | 5000                   | 70.0                   | 0.2                   | 0.3                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000981                    | T872                      | 3                   | 5000                   | 69.4                   | 0.3                   | 0.4                      | 31.30                    | 55.90                   | 682.40                        | P               |
| BW0000982                    | T872                      | 4                   | 5000                   | 70.9                   | 0.3                   | 0.4                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000983                    | T872                      | 5                   | 5000                   | 69.1                   | 0.2                   | 0.3                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000984                    | T872                      | 6                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.30                    | 56.00                   | 685.18                        | P               |
| BW0000985                    | T872                      | 1                   | 5000                   | 70.4                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000986                    | T872                      | 2                   | 5000                   | 69.9                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000987                    | T872                      | 3                   | 5000                   | 69.4                   | 0.1                   | 0.1                      | 31.30                    | 55.95                   | 683.79                        | P               |
| BW0000988                    | T872                      | 4                   | 5000                   | 70.4                   | 0.4                   | 0.6                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0000989                    | T872                      | 5                   | 5000                   | 69.0                   | 0.3                   | 0.4                      | 31.40                    | 56.10                   | 685.18                        | P               |
| BW0000990                    | T872                      | 6                   | 5000                   | 69.6                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | 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: 24-Apr-09  
Day: Friday  
Time: 10:38 AM

Cylinder Type: **S80.2-BW**

Test Station: **# 4 Hydro**

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

| Cylinder<br>Serial<br>Number | Cylinder<br>Lot<br>Number | Hydro<br>Jkt<br>Num | Actual<br>T/P<br>(psi) | Total<br>Expan<br>(cc) | Perm<br>Expan<br>(cc) | Ratio<br>Perm/Tot<br>(%) | Empty<br>Weight<br>(lbs) | Full<br>Weight<br>(lbs) | Volume<br>Capacity<br>(cu in) | Pass or<br>Fail |
|------------------------------|---------------------------|---------------------|------------------------|------------------------|-----------------------|--------------------------|--------------------------|-------------------------|-------------------------------|-----------------|
| BW0000991                    | T872                      | 1                   | 5000                   | 70.6                   | 0.3                   | 0.4                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000992                    | T872                      | 2                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000993                    | T872                      | 3                   | 5000                   | 69.5                   | 0.2                   | 0.3                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000994                    | T872                      | 4                   | 5000                   | 70.3                   | 0.3                   | 0.4                      | 31.30                    | 56.00                   | 685.18                        | P               |
| BW0000995                    | T872                      | 5                   | 5000                   | 69.1                   | 0.5                   | 0.7                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0000996                    | T872                      | 6                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000997                    | T872                      | 1                   | 5000                   | 70.5                   | 0.1                   | 0.1                      | 31.30                    | 56.00                   | 685.18                        | P               |
| BW0000998                    | T872                      | 2                   | 5000                   | 70.3                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0000999                    | T872                      | 3                   | 5000                   | 69.5                   | 0.2                   | 0.3                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0001000                    | T872                      | 4                   | 5000                   | 70.7                   | 0.7                   | 1.0                      | 31.35                    | 55.90                   | 681.02                        | P               |
| BW0001001                    | T872                      | 5                   | 5000                   | 69.2                   | 0.3                   | 0.4                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0001002                    | T872                      | 6                   | 5000                   | 70.1                   | 0.2                   | 0.3                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0001003                    | T872                      | 1                   | 5000                   | 70.5                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0001004                    | T872                      | 2                   | 5000                   | 70.0                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0001005                    | T872                      | 3                   | 5000                   | 69.9                   | 0.9                   | 1.3                      | 31.30                    | 56.05                   | 686.57                        | P               |
| BW0001006                    | T872                      | 4                   | 5000                   | 70.3                   | 0.2                   | 0.3                      | 31.30                    | 56.00                   | 685.18                        | P               |
| BW0001007                    | T872                      | 5                   | 5000                   | 69.0                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0001008                    | T872                      | 6                   | 5000                   | 69.8                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0001009                    | T872                      | 1                   | 5000                   | 70.5                   | 0.1                   | 0.1                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0001010                    | T872                      | 2                   | 5000                   | 70.2                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0001011                    | T872                      | 3                   | 5000                   | 69.9                   | 0.6                   | 0.9                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0001012                    | T872                      | 4                   | 5000                   | 70.4                   | 0.4                   | 0.6                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0001013                    | T872                      | 5                   | 5000                   | 69.1                   | 0.3                   | 0.4                      | 31.35                    | 55.95                   | 682.40                        | P               |
| BW0001014                    | T872                      | 6                   | 5000                   | 69.7                   | 0.0                   | 0.0                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0001015                    | T872                      | 1                   | 5000                   | 70.5                   | 0.2                   | 0.3                      | 31.40                    | 55.95                   | 681.02                        | P               |
| BW0001016                    | T872                      | 2                   | 5000                   | 70.3                   | 0.1                   | 0.1                      | 31.30                    | 56.00                   | 685.18                        | P               |
| BW0001017                    | T872                      | 3                   | 5000                   | 69.4                   | 0.1                   | 0.1                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0001018                    | T872                      | 4                   | 5000                   | 70.5                   | 0.4                   | 0.6                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0001019                    | T872                      | 1                   | 5000                   | 70.7                   | 0.3                   | 0.4                      | 31.35                    | 56.00                   | 683.79                        | P               |
| BW0001020                    | T872                      | 2                   | 5000                   | 70.1                   | 0.0                   | 0.0                      | 31.35                    | 56.05                   | 685.18                        | P               |
| BW0001021                    | T872                      | 3                   | 5000                   | 69.5                   | 0.2                   | 0.3                      | 31.40                    | 56.00                   | 682.40                        | P               |
| BW0001022                    | T872                      | 4                   | 5000                   | 70.9                   | 1.2                   | 1.7                      | 31.40                    | 56.00                   | 682.40                        | P               |



**T. H. COCHRANE LABORATORIES, LTD.**

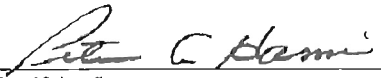
Signature Page of Certifying Inspector for DOT/TC Certificate of Compliance and Test Report No.

CC09-30774

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