

Declaration of Conformity

According to Directive 2014/68/EC (PED)

For Pressure Equipment

Catalina Cylinders Inc.

Herewith declares, that the Pressure Equipment

Seamless Extruded Aluminum Cylinders

(Model S80.3, 77.4 cuft, PT 311bar)

Serial Numbers: GV0005820 – GV0006336 Year of Manufacturing: 2016

> Volume: 77.4 cuft Test Pressure: 311 bar Test Medium: Water

Conform to the Pressure Equipment Directive 2014/68/EC

Type Approval No: USA-11-01-189-002 EC Certificate of Conformity Number: CCA-1266-007-16010 Applied standard: ISO 7866:2012

Notified body engaged for monitoring of the quality system: Arrowhead Industrial Services Bourne, Lincolnshire UK Notified Body Number 1266 Certificate Number ACS-20140522-0-PED-02

Catalina Cylinders Inc. Garden Grove, California, USA

Mesanan

Miguel Garay Quality Assurance Manager August, 2016

WORLD CLASS PRODUCTS. FIRST CLASS SERVICE.™
TEL (714) 890-0999 ◆ FAX (714) 890-1744 ◆
www.catalinacylinders.com
7300 Anaconda Avenue, Garden Grove, California 92841



EC Certificate of Conformity

Certificate Nº

CCA-1266-007-16010

| Manufacturer | Catalina Cy | linders | Manufacturer's Mark |
|----------------|-------------|--------------------------------------|----------------------------------|
| Address | | arch/7300 Anaconda Avenue | Planaractar er 5 Plan |
| riddi coo | Garden Gro | | CATALTNA |
| Country | | ive, ca | CATALINA |
| Country | USA | | |
| Regu | ulation[s]: | PED 2014/68/EC | |
| Design Spe | cification: | EN ISO 7866:2012 | |
| Inspection E | Body [Xa]: | Arrowhead Industrial Services Limite | d |
| | Address: | Meadow Drove Business Centre, Bou | Irne, Lincolnshire, PE10 OBP, UK |
| Identification | Number: | 1266 In | spector's Mark |
| Type Ap | proval Nº: | USA-11-02-189-002 | A |
| Cylin | der Type: | Seamless aluminium alloy | |
| Dr | awing Nº: | S80.3-GV | |
| Manufacturing | Batch Nº: | AN448, AN449, AN450 | |
| Serial | Nº Range: | From: GV0005820 | To: GV0006336 |
| | al Tested: | 517 Total Accepted | d: 517 |

Country ITALY

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

General Remarks:

| Date of Inspection: August, 2016 IS Body Inspector: | Signature MCLS C | anay |
|---|---------------------|--|
| Miguel Garay | | |
| Approved by: | Signature | - Digitally signed by Simon Davies |
| Simon Davies | CU D | DN: cn=Simon Davies, o, ou=Arrowhead Industrial |
| Certifying Inspector | S.H Darl | Services Limited, email=simon.davies@arrow eadis.com, c=GB |
| Arrowhead Industrial Services Limited | | Date: 2016.08.02 16:22:27 +01'00' |

CERTIFICATE OF CONFORMANCE Application of ISO 7866:2012

Seamless Aluminum Cylinders Model No. S80.3

| MANUFACTURED I | FOR: STOCK | | | | |
|-------------------|------------------------|--------------|---------------------------|----------|---------|
| MANUFACTURED I | | | E, GARDEN GROVE, CALIFORN | ia 92841 | l |
| QUANTITY: 517 | | | | | |
| SERIAL NUMBERS | GV0005820 | то | GV0006336 | | |
| BATCH NUMBER(S |): AN448, AN449, A | N450 | HEAT NUMBER(S): | TD3 | |
| TECHNICAL DATA | : | | | | |
| Service Pressure: | 207Bar | | Test Pres | ssure: | 311 Bar |
| Nominal Size 1 | 84.2 mm OD | | Minimum | Wall: | 12.1 mm |
| 6 | 557.9 mm Long (without | cap and with | nout valve) | | |
| Nominal Volumet | ric Capacity: 11.1 L | iters | | | |

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

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

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

I hereby certify that I have determined the cylinders covered by this Certificate of Conformance have been manufactured in accordance with the requirements of ISO Standard EN ISO 7866:2012, and have passed all the inspections and tests required by this ISO Standard.

Remarks: COLTRI SUB

| | CATALINA CYLINDERS | |
|---------|--------------------|--|
| | Garden Grove, CA | |
| Signed: | | |
| C | Inspector | |
| Date: | 08-01-16 | |

Measurement of Cylinders

| Batch No. | Serial Numbers | Water Capacity | Minimum measured thickness | | | |
|-------------------|-------------------------|--|---|---|--|--|
| AN448,AN449,AN450 | GV0005820- GV0006336 | 100% Inspected all capacities 11.1L or greater | 100% Wall Thickness Inspected all above 12.1 mm minimum | 100% Base Thickness Inspected all above 18.7 mm minimum | | |

Mechanical Testing

| Batch No. | Serial Numbers | Cast No. | Yield Stress (Mpa) | Tensile Stress (Mpa) | Elongation % | Flattening Test | Burst Test Serial No. | Burst Test (Bar) | Hardness |
|--------------|-------------------------|----------|-----------------------|-------------------------|-----------------|--------------------|--------------------------|---------------------|----------|
| AN448 | GV0005820 to | TD3 | 297.1 | 346.9 | 22.9 | ОК | GV0005821 | 551.6 | ОК |
| | GV0006018 | | 292.3 | 345.4 | 23.6 | | | | |
| AN449 | GV0006019- GV0006217 | TD3 | 322.6 | 353.4 | 20.9 | ОК | GV0006049 | 534.6 | ОК |
| | G V 0000217 | | 332.4 | 351.6 | 21.3 | | | | |
| AN450 | GV0006218- GV0006336 | TD3 | 315.5 | 348.7 | 23.5 | ОК | GV0006304 | 539.7 | ОК |
| | G V 0000330 | | 317.1 | 345.4 | 21.9 | | | | |
| | | | | | | | | | |

Record of Chemical Analysis of Material for Cylinders

| HEAT NO (HEAT CODE) (LADLE OR CHECK) | TYPE OF ANALYSIS | CHEMICAL ANALYSIS | | | | | | | | | |
|---|------------------|-------------------|-----|-----|-----|-----|------|-----|-----|------|------|
| | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Pb | Bi | |
| TD3 | LADLE | .61 | .17 | .31 | .02 | .91 | .080 | .00 | .01 | .001 | .000 |
| | | | | | : | | | | | | |

Date: 08-01-16

| Place: GARDEN GROVE, CALIFORNIA USA |
|-------------------------------------|
| Signature: |
| On behalf of Catalina Cylinders |

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

| Lot No. | Serial Number | Total Hydrocarbons (mg) | Regulatory Level Allowed (mg) |
|---------|---------------|----------------------------|----------------------------------|
| AN448 | GV0005820 | 8.4 | 9.00 |
| AN449 | GV0006019 | 7.6 | 9.00 |
| AN450 | GV0006218 | <0.2 | 9.00 |

Certificate of Residual Hydrocarbon Testing are on file at Manufacturer.

Certifying Entity: South Coast Pollution Control

| In accordance CGA Pamphl | et C-1 | |
|---|------------|-----------|
| Manufacturer: Catalina Cylinders / Garden Grove | Test Date: | 28-Jul-16 |
| Independent Inspector: T. H. Cochrane Labs | Day: | Thursday |
| | Time: | 2:11 PM |
| | | |

Cylinder Type: S80-GV

Test Station: #4 Hydro

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

| Cylinder Serial | Cylinder Lot | Hydro Jkt | Actual T/P | Total Expan | Perm Expan | Ratio Perm/Tot | Empty Weight | Full Weight | Volume Capacity | Pass or Fail |
|--------------------|-----------------|--------------|---------------|----------------|---------------|-------------------|-----------------|----------------|--------------------|-----------------|
| Number | Number | Num | (psi) | (cc) | (CC) | (%) | (lbs) | (lbs) | (cu in) | |
| GV0005820 | AN448 | 1 | 4500 | 64.4 | 0.3 | 0.5 | 31.34 | 55.90 | 681.29 | PASS |
| GV0005821 | AN448 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.36 | 56.00 | 683.51 | PASS |
| GV0005822 | AN448 | 3 | 4500 | 64.3 | 0.0 | 0.0 | 31.18 | 55.85 | 684.35 | PASS |
| GV0005823 | AN448 | 4 | 4500 | 64.6 | 0.2 | 0.3 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005824 | AN448 | 5 | 4500 | 64.8 | 0.1 | 0.2 | 31.34 | 55.95 | 682.68 | PASS |
| GV0005825 | AN448 | 6 | 4500 | 64.3 | 0.0 | 0.0 | 31.22 | 55.85 | 683.24 | PASS |
| GV0005826 | AN448 | 1 | 4500 | 64.4 | 0.1 | 0.2 | 31.22 | 55.95 | 686.01 | PASS |
| GV0005827 | AN448 | 2 | 4500 | 64.5 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS |
| GV0005828 | AN448 | 3 | 4500 | 64.9 | 0.8 | 1.2 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005829 | AN448 | 4 | 4500 | 64.0 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0005830 | AN448 | 5 | 4500 | 64.6 | 0.1 | 0.2 | 31.30 | 55.95 | 683.79 | PASS |
| GV0005831 | AN448 | 6 | 4500 | 63.9 | 0.0 | 0.0 | 31.24 | 55.90 | 684.07 | PASS |
| GV0005832 | AN448 | 1 | 4500 | 64.7 | 0.4 | 0.6 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005833 | AN448 | 2 | 4500 | 64.6 | 0.2 | 0.3 | 31.32 | 55.95 | 683.24 | PASS PASS |
| GV0005834 | AN448 | 3 | 4500 | 63.9 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS |
| GV0005835 | AN448 | 4 | 4500 | 64.3 | 0.0 | 0.0 | 31.24 | 55.90 | 684.07 | PASS |
| GV0005836 | AN448 | 5 | 4500 | 65.3 | 0.7 | 1.1 | 31.32 | 55.85 | 680.46 | |
| GV0005837 | AN448 | 6 | 4500 | 64.5 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005838 | AN448 | 1 | 4500 | 64.4 | 0.4 | 0.6 | 31.32 | 56.00 | 684.62 | PASS |
| GV0005839 | AN448 | 2 | 4500 | 64.5 | 0.0 | 0.0 | 31.26 | 56.00 | 686.29 | PASS |
| GV0005840 | AN448 | 3 | 4500 | 63.7 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0005841 | AN448 | 4 | 4500 | 64.3 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0005842 | AN448 | 5 | 4500 | 64.9 | 0.1 | 0.2 | 31.26 | 55.85 | 682.13 | PASS |
| GV0005843 | AN448 | 6 | 4500 | 64.8 | 0.3 | 0.5 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005844 | AN448 | 1 | 4500 | 64.5 | 0.4 | 0.6 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005845 | AN448 | 2 | 4500 | 64.5 | 0.1 | 0.2 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005846 | AN448 | 3 | 4500 | 64.2 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0005847 | AN448 | 4 | 4500 | 64.5 | 0.2 | 0.3 | 31.26 | 55.90 | 683.51 | PASS |
| GV0005848 | AN448 | 5 | 4500 | 65.3 | 0.3 | 0.5 | 31.20 | 55.85 | 683.79 | PASS |
| GV0005849 | AN448 | 6 | 4500 | 64.8 | 0.4 | 0.6 | 31.30 | 55.95 | 683.79 | PASS |
| GV0005850 | AN448 | 1 | 4500 | 64.7 | 0.5 | 0.8 | 31.32 | 56.00 | 684.62 | PASS |
| GV0005851 | AN448 | 2 | 4500 | 64.4 | 0.6 | 0.9 | 31.32 | 56.00 | 684.62 | PASS |
| GV0005852 | AN448 | 3 | 4500 | 64.2 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005853 | AN448 | 4 | 4500 | 64.5 | 0.2 | 0.3 | 31.20 | 55.95 | 686.57 | PASS PASS |
| GV0005854 | AN448 | 5 | 4500 | 65.1 | 0.6 | 0.9 | 31.30 | 55.95 | 683.79 | |
| GV0005855 | AN448 | 6 | 4500 | 64.9 | 0.7 | 1.1 | 31.30 | 55.90 | 682.40 | PASS PASS |
| GV0005856 | AN448 | 1 | 4500 | 64.4 | 0.1 | 0.2 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005857 | AN448 | 2 | 4500 | 64.2 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0005858 | AN448 | 3 | 4500 | 64.3 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005859 | AN448 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 55.85 | 681.02 | PASS |
| GV0005860 | AN448 | 5 | 4500 | 64.9 | 0.1 | 0.2 | 31.24 | 55.80 | 681.29 | PASS |
| GV0005861 | AN448 | 6 | 4500 | 64.1 | 0.0 | 0.0 | 31.28 | 55.85 | 681.57 | FAUU |

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In accordance CGA Pamphlet C-1

| Manufacturer: Catalina Cylinders / Garden Grove | Test Date: | 28-Jul-16 |
|---|------------|-----------|
| Independent Inspector: T. H. Cochrane Labs | Day: | Thursday |
| | Time: | 2:11 PM |
| | | |

Cylinder Type: S80-GV

Test Station: #4 Hydro

Test Pressure (T/P): 4500

| Cylinder Serial | Cylinder Lot | Hydro Jkt | Actual T/P | Total Expan | Perm Expan | Ratio Perm/Tot | Empty Weight | Full Weight | Volume Capacity | Pass or Fail |
|--------------------|-----------------|--------------|---------------|----------------|---------------|-------------------|-----------------|----------------|--------------------|-----------------|
| Number | Number | Num | (psi) | (cc) | (cc) | (%) | (lbs) | (ibs) | (cu in) | PASS |
| GV0005862 | AN448 | 1 | 4500 | 64.6 | 0.2 | 0.3 | 31.24 | 55.85 | 682.68 | PASS |
| GV0005863 | AN448 | 2 | 4500 | 64.3 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0005864 | AN448 | 3 | 4500 | 64.1 | 0.0 | 0.0 | 31.24 | 55.85 | 682.68 | PASS |
| GV0005865 | AN448 | 4 | 4500 | 64.0 | 0.0 | 0.0 | 31.24 | 55.85 | 682.68 682.68 | PASS |
| GV0005866 | AN448 | 5 | 4500 | 64.8 | 0.2 | 0.3 | 31.24 | 55.85 | | PASS |
| GV0005867 | AN448 | 6 | 4500 | 64.3 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0005868 | AN448 | 1 | 4500 | 64.6 | 0.2 | 0.3 | 31.22 | 55.85 | 683.24 | PASS |
| GV0005869 | AN448 | 2 | 4500 | 64.0 | 0.0 | 0.0 | 31.24 | 55.95 | 685.46 | PASS |
| GV0005870 | AN448 | 3 | 4500 | 64.0 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0005871 | AN448 | 4 | 4500 | 64.5 | 0.1 | 0.2 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005872 | AN448 | 5 | 4500 | 65.2 | 0.3 | 0.5 | 31.28 | 55.90 | 682.96 | |
| GV0005873 | AN448 | 6 | 4500 | 64.5 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0005874 | AN448 | 1 | 4500 | 64.4 | 0.3 | 0.5 | 31.26 | 55.90 | 683.51 | PASS |
| GV0005875 | AN448 | 2 | 4500 | 63.9 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0005876 | AN448 | 3 | 4500 | 63.8 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0005877 | AN448 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.22 | 55.90 | 684.62 | PASS |
| GV0005878 | AN448 | 5 | 4500 | 64.9 | 0.1 | 0.2 | 31.24 | 55.95 | 685.46 | PASS |
| GV0005879 | AN448 | 6 | 4500 | 64.5 | 0.1 | 0.2 | 31.26 | 56.15 | 690.45 | PASS |
| GV0005880 | AN448 | 1 | 4500 | 64.2 | 0.2 | 0.3 | 31.26 | 56.00 | 686.29 | PASS |
| GV0005881 | AN448 | 2 | 4500 | 64.3 | 0.0 | 0.0 | 31.26 | 56.00 | 686.29 | PASS |
| GV0005882 | AN448 | 3 | 4500 | 63.6 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0005883 | AN448 | 4 | 4500 | 64.3 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0005884 | AN448 | 5 | 4500 | 65.1 | 0.2 | 0.3 | 31.26 | 56.00 | 686.29 | PASS |
| GV0005885 | AN448 | 6 | 4500 | 64.0 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0005886 | AN448 | 1 | 4500 | 64.3 | 0.1 | 0.2 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005887 | AN448 | 2 | 4500 | 64.1 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0005888 | AN448 | 3 | 4500 | 64.0 | 0.0 | 0.0 | 31.34 | 55.85 | 679.91 | PASS |
| GV0005889 | AN448 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.36 | 55.90 | 680.74 | PASS |
| GV0005890 | AN448 | 5 | 4500 | 64.9 | 0.3 | 0.5 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005891 | AN448 | 6 | 4500 | 64.2 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0005892 | AN448 | 1 | 4500 | 64.2 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005893 | AN448 | 2 | 4500 | 63.9 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005894 | AN448 | 3 | 4500 | 63.5 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0005895 | AN448 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0005896 | AN448 | 5 | 4500 | 65.2 | 0.4 | 0.6 | 31.24 | 55.90 | 684.07 | PASS |
| GV0005897 | AN448 | 6 | 4500 | 64.2 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0005898 | AN448 | 1 | 4500 | 64.5 | 0.3 | 0.5 | 31.34 | 55.90 | 681.29 | PASS |
| GV0005899 | AN448 | 2 | 4500 | 64.0 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005900 | AN448 | 3 | 4500 | 64.2 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0005901 | AN448 | 4 | 4500 | 64.3 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0005902 | AN448 | 5 | 4500 | 65.0 | 0.2 | 0.3 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005903 | AN448 | 6 | 4500 | 64.1 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |

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In accordance CGA Pamphlet C-1

| Manufacturer: Catalina Cylinders / Garden Grove | Test Date: | 28-Jul-16 |
|---|------------|-----------|
| Independent Inspector: T. H. Cochrane Labs | Day: | Thursday |
| | Time: | 2:11 PM |

Cylinder Type: S80-GV

Test Station: #4 Hydro

| Cylinder | Cylinder | Hydro | Actual | Total | Perm | Ratio | Empty | Full | Volume | Pass |
|-----------|----------|-------|--------|-------|-------|----------|--------|--------|----------|---------|
| Serial | Lot | Jkt | T/P | Expan | Expan | Perm/Tot | Weight | Weight | Capacity | or Fail |
| Number | Number | Num | (psi) | (cc) | (cc) | (%) | (lbs) | (lbs) | (cu in) | |
| GV0005904 | AN448 | 1 | 4500 | 64.3 | 0.2 | 0.3 | 31.28 | 55.90 | 682.96 | PASS |
| GV0005905 | AN448 | 2 | 4500 | 63.8 | 0.0 | 0.0 | 31.24 | 56.00 | 686.84 | PASS |
| GV0005906 | AN448 | 3 | 4500 | 63.6 | 0.0 | 0.0 | 31.24 | 55.95 | 685.46 | PASS |
| GV0005907 | AN448 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.24 | 55.95 | 685.46 | PASS |
| GV0005908 | AN448 | 5 | 4500 | 64.9 | 0.2 | 0.3 | 31.30 | 55.90 | 682.40 | PASS |
| GV0005909 | AN448 | 6 | 4500 | 64.4 | 0.1 | 0.2 | 31.28 | 55.90 | 682.96 | PASS |
| GV0005910 | AN448 | 1 | 4500 | 64.2 | 0.1 | 0.2 | 31.26 | 55.90 | 683.51 | PASS |
| GV0005911 | AN448 | 2 | 4500 | 64.1 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0005912 | AN448 | 3 | 4500 | 64.1 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005913 | AN448 | 4 | 4500 | 64.4 | 0.1 | 0.2 | 31.24 | 55.95 | 685.46 | PASS |
| GV0005914 | AN448 | 5 | 4500 | 64.7 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005915 | AN448 | 6 | 4500 | 64.5 | 0.3 | 0.5 | 31.36 | 55.90 | 680.74 | PASS |
| GV0005916 | AN448 | 1 | 4500 | 64.3 | 0.1 | 0.2 | 31.36 | 55.90 | 680.74 | PASS |
| GV0005917 | AN448 | 2 | 4500 | 63.7 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0005918 | AN448 | 3 | 4500 | 64.2 | 0.1 | 0.2 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005919 | AN448 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005920 | AN448 | 5 | 4500 | 64.7 | 0.2 | 0.3 | 31.30 | 55.90 | 682.40 | PASS |
| GV0005921 | AN448 | 6 | 4500 | 64.7 | 0.3 | 0.5 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005922 | AN448 | 1 | 4500 | 64.0 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0005923 | AN448 | 2 | 4500 | 63.6 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005924 | AN448 | 3 | 4500 | 64.1 | 0.0 | 0.0 | 31.30 | 56.05 | 686.57 | PASS |
| GV0005925 | AN448 | 4 | 4500 | 63.9 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005926 | AN448 | 5 | 4500 | 64.6 | 0.1 | 0.2 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005927 | AN448 | 6 | 4500 | 64.2 | 0.1 | 0.2 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005928 | AN448 | 1 | 4500 | 64.4 | 0.3 | 0.5 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005929 | AN448 | 2 | 4500 | 64.1 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005930 | AN448 | 3 | 4500 | 64.4 | 0.2 | 0.3 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005931 | AN448 | 4 | 4500 | 64.5 | 0.5 | 0.8 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005932 | AN448 | 5 | 4500 | 64.6 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005933 | AN448 | 6 | 4500 | 64.2 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0005934 | AN448 | 1 | 4500 | 64.3 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005935 | AN448 | 2 | 4500 | 63.9 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005936 | AN448 | 3 | 4500 | 64.2 | 0.1 | 0.2 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005937 | AN448 | 4 | 4500 | 64.5 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005938 | AN448 | 5 | 4500 | 64.8 | 0.2 | 0.3 | 31.30 | 55.85 | 681.02 | PASS |
| GV0005939 | AN448 | 6 | 4500 | 64.2 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005940 | AN448 | 1 | 4500 | 64.2 | 0.1 | 0.2 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005941 | AN448 | 2 | 4500 | 63.8 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005942 | AN448 | 3 | 4500 | 64.4 | 0.1 | 0.2 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005943 | AN448 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0005944 | AN448 | 5 | 4500 | 64.7 | 0.0 | 0.0 | 31.24 | 55.85 | 682.68 | PASS |
| GV0005945 | AN448 | 6 | 4500 | 64.6 | 0.2 | 0.3 | 31.32 | 55.95 | 683.24 | PASS |
| | | | | | | | | | | |

D off

In accordance CGA Pamphlet C-1

| | Time: | 2:11 PM |
|---|------------|-----------|
| Independent Inspector: T. H. Cochrane Labs | Day: | Thursday |
| Manufacturer: Catalina Cylinders / Garden Grove | Test Date: | 28-Jul-16 |
| | | |

Cylinder Type: S80-GV

Test Station: #4 Hydro

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

| Cylinder | Cylinder | Hydro | Actual | Total | Perm | Ratio | Empty | Full | Volume | Pass |
|-----------|----------|-------|--------|-------|-------|----------|--------|--------|----------|---------|
| Serial | Lot | Jkt | T/P | Expan | Expan | Perm/Tot | Weight | Weight | Capacity | or Fail |
| Number | Number | Num | (psi) | (CC) | (cc) | (%) | (lbs) | (lbs) | (cu in) | UIFall |
| GV0005946 | AN448 | 1 | 4500 | 64.2 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0005947 | AN448 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0005948 | AN448 | 3 | 4500 | 64.6 | 0.4 | 0.6 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005949 | AN448 | 4 | 4500 | 64.1 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS |
| GV0005950 | AN448 | 5 | 4500 | 64.7 | 0.1 | 0.2 | 31.30 | 55.95 | 683.79 | PASS |
| GV0005951 | AN448 | 6 | 4500 | 64.4 | 0.1 | 0.2 | 31.26 | 55.85 | 682.13 | PASS |
| GV0005952 | AN448 | 1 | 4500 | 64.4 | 0.3 | 0.5 | 31.36 | 55.95 | 682.13 | PASS |
| GV0005953 | AN448 | 2 | 4500 | 64.5 | 0.1 | 0.2 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005954 | AN448 | 3 | 4500 | 64.0 | 0.0 | 0.0 | 31.30 | 55.85 | 681.02 | PASS |
| GV0005955 | AN448 | 4 | 4500 | 63.9 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0005956 | AN448 | 5 | 4500 | 64.9 | 0.2 | 0.3 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005957 | AN448 | 6 | 4500 | 64.2 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005958 | AN448 | 1 | 4500 | 64.4 | 0.2 | 0.3 | 31.30 | 55.85 | 681.02 | PASS |
| GV0005959 | AN448 | 2 | 4500 | 64.4 | 0.2 | 0.3 | 31.30 | 55.90 | 682.40 | PASS |
| GV0005960 | AN448 | 3 | 4500 | 64.4 | 0.2 | 0.3 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005961 | AN448 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0005962 | AN448 | 5 | 4500 | 64.8 | 0.4 | 0.6 | 31.36 | 55.90 | 680.74 | PASS |
| GV0005963 | AN448 | 6 | 4500 | 64.3 | 0.1 | 0.2 | 31.28 | 55.95 | 684.35 | PASS |

Page 4 of 4

off

In accordance CGA Pamphlet C-1 Manufacturer: Catalina Cylinders / Garden Grove Test Date: 29-Jul-16 Independent Inspector: T. H. Cochrane Labs Day: Friday 5:08 AM Time:

Cylinder Type: S80-GV

Test Station:

#4 Hydro

| Cylinder Serial Number | Cylinder Lot | Hydro Jkt | Actual T/P | Total Expan | Perm Expan | Ratio Perm/Tot | Empty Weight | Full Weight | Volume Capacity | Pass or Fail |
|------------------------------|-----------------|--------------|---------------|----------------|---------------|-------------------|-----------------|----------------|--------------------|-----------------|
| GV0005964 | Number AN448 | Num | (psi) | (cc) | (cc) | (%) | (lbs) | (lbs) | (cu in) | |
| GV0005964 | AN448 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005965 | AN448 | 2 | 4500 | 64.5 | 1.1 | 1.7 | 31.34 | 55.90 | 681.29 | PASS |
| GV0005967 | | 3 | 4500 | 64.3 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0005968 | AN448 | 4 | 4500 | 64.3 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0005969 | AN448 | 5 | 4500 | 65.0 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0005989 | AN448 | 6 | 4500 | 64.6 | 0.1 | 0.2 | 31.26 | 55.90 | 683.51 | PASS |
| GV0005970 | AN448 | 1 | 4500 | 64.5 | 0.1 | 0.2 | 31.34 | 55.90 | 681.29 | PASS |
| | AN448 | 2 | 4500 | 64.8 | 0.7 | 1.1 | 31.30 | 55.90 | 682.40 | PASS |
| GV0005972 | AN448 | 3 | 4500 | 64.5 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005973 | AN448 | 4 | 4500 | 63.7 | 0.0 | 0.0 | 31.36 | 55.90 | 680.74 | PASS |
| GV0005974 | AN448 | 5 | 4500 | 65.1 | 0.1 | 0.2 | 31.28 | 56.05 | 687.12 | PASS |
| GV0005975 | AN448 | 6 | 4500 | 65.3 | 0.4 | 0.6 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005976 | AN448 | 1 | 4520 | 64.5 | 0.1 | 0.2 | 31.26 | 55.95 | 684.90 | PASS |
| GV0005977 | AN448 | 2 | 4520 | 64.7 | 0.8 | 1.2 | 31.26 | 55.95 | 684.90 | PASS |
| GV0005978 | AN448 | 3 | 4520 | 64.5 | 0.1 | 0.2 | 31.28 | 55.90 | 682.96 | PASS |
| GV0005979 | AN448 | 4 | 4520 | 64.4 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0005980 | AN448 | 5 | 4520 | 64.9 | 0.2 | 0.3 | 31.28 | 56.00 | 685.73 | PASS |
| GV0005981 | AN448 | 6 | 4520 | 64.7 | 0.1 | 0.2 | 31.24 | 55,90 | 684.07 | PASS |
| GV0005982 | AN448 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005983 | AN448 | 2 | 4500 | 64.9 | 0.9 | 1.4 | 31.32 | 55.85 | 680.46 | PASS |
| GV0005984 | AN448 | 3 | 4500 | 64.6 | 0.0 | 0.0 | 31.32 | 55.85 | 680.46 | PASS |
| GV0005985 | AN448 | 4 | 4500 | 64.5 | 0.0 | 0.0 | 31.30 | 55.85 | 681.02 | PASS |
| GV0005986 | AN448 | 5 | 4500 | 65.0 | 0.2 | 0.3 | 31.32 | 55.85 | 680.46 | PASS |
| GV0005987 | AN448 | 6 | 4500 | 64.9 | 0.2 | 0.3 | 31.30 | 55.80 | 679.63 | PASS |
| GV0005988 | AN448 | 1 | 4500 | 64.6 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005989 | AN448 | 2 | 4500 | 64.7 | 0.7 | 1.1 | 31.32 | 55.95 | 683.24 | PASS |
| GV0005990 | AN448 | 3 | 4500 | 64.3 | 0.0 | 0.0 | 31.30 | 55.85 | 681.02 | PASS |
| GV0005991 | AN448 | 4 | 4500 | 64.5 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0005992 | AN448 | 5 | 4500 | 65.1 | 0.1 | 0.2 | 31.26 | 55.85 | 682.13 | PASS |
| GV0005993 | AN448 | 6 | 4500 | 64.3 | 0.0 | 0.0 | 31.26 | 55.85 | 682.13 | PASS |
| GV0005994 | AN448 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0005995 | AN448 | 2 | 4500 | 64.6 | 0.8 | 1.2 | 31.26 | 55.90 | 683.51 | PASS |
| GV0005996 | AN448 | 3 | 4500 | 64.2 | 0.0 | 0.0 | 31.30 | 55.85 | 681.02 | PASS |
| GV0005997 | AN448 | 4 | 4500 | 64.0 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0005998 | AN448 | 5 | 4500 | 64.8 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0005999 | AN448 | 6 | 4500 | 64.7 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006000 | AN448 | 1 | 4520 | 64.4 | 0.0 | 0.0 | 31.26 | 56.00 | 686.29 | PASS |
| GV0006001 | AN448 | 2 | 4520 | 64.9 | 0.7 | 1.1 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006002 | AN448 | 3 | 4520 | 64.4 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006003 | AN448 | 4 | 4520 | 64.1 | 0.0 | 0.0 | 31.26 | 56.00 | 686.29 | PASS |
| GV0006004 | AN448 | 5 | 4520 | 64.8 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006005 | AN448 | 6 | 4520 | 64.4 | 0.0 | 0.0 | 31.26 | 55.85 | 682.13 | PASS |

In accordance CGA Pamphlet C-1

| Manufacturer: Catalina Cylinders / Garden Grove | Test Date: | 29-Jul-16 |
|---|---------------|-----------|
| Independent Inspector: T. H. Cochrane Labs | Day: | Friday |
| | Time: | 5:08 AM |
| Cylinder Type: S80-GV | Test Station: | #4 Hydro |

| 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 |
|------------------------------|---------------------------|---------------------|------------------------|------------------------|-----------------------|--------------------------|--------------------------|-------------------------|-------------------------------|-----------------|
| GV0006006 | AN448 | 1 | 4520 | 64.3 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006007 | AN448 | 2 | 4520 | 64.7 | 0.9 | 1.4 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006008 | AN448 | 3 | 4520 | 64.2 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006009 | AN448 | 4 | 4520 | 64.4 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006010 | AN448 | 5 | 4520 | 64.7 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006011 | AN448 | 6 | 4520 | 64.3 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006012 | AN448 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006013 | AN448 | 2 | 4500 | 64.5 | 1.1 | 1.7 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006014 | AN448 | 3 | 4500 | 64.3 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006015 | AN448 | 4 | 4500 | 64.1 | 0.0 | 0.0 | 31.26 | 56.05 | 687.67 | PASS |
| GV0006016 | AN448 | 5 | 4500 | 64.8 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006017 | AN448 | 6 | 4500 | 64.2 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006018 | AN448 | 1 | 4500 | 64.2 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |

D2

| In accordance CGA Par | phlet C-1 | |
|---|------------|-----------|
| Manufacturer: Catalina Cylinders / Garden Grove | Test Date: | 29-Jul-16 |
| Independent Inspector: T. H. Cochrane Labs | Day: | Friday |
| independent inspectant that a same same | Time: | 8:19 AM |
| State at the | | 11 A A.L |

Cylinder Type: S80-GV

Test Station: #4 Hydro

| 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 |
|------------------------------|---------------------------|---------------------|------------------------|------------------------|-----------------------|--------------------------|--------------------------|-------------------------|-------------------------------|-----------------|
| GV0006019 | AN449 | 2 | 4500 | 64.2 | 1.0 | 1.6 | 31.36 | 55.95 | 682.13 | PASS |
| GV0006020 | AN449 | 3 | 4500 | 64.3 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006021 | AN449 | 4 | 4500 | 64.1 | 0.0 | 0.0 | 31.24 | 55.90 | 684.07 | PASS |
| GV0006022 | AN449 | 5 | 4500 | 64.8 | 0.0 | 0.0 | 31.26 | 55.85 | 682.13 | PASS |
| GV0006023 | AN449 | 6 | 4500 | 64.7 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006024 | AN449 | 1 | 4500 | 64.2 | 0.0 | 0.0 | 31.40 | 56.05 | 683.79 | PASS |
| GV0006025 | AN449 | 2 | 4500 | 64.7 | 0.9 | 1.4 | 31.34 | 56.00 | 684.07 | PASS |
| GV0006026 | AN449 | 3 | 4500 | 64.2 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006027 | AN449 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006028 | AN449 | 5 | 4500 | 64.9 | 0.0 | 0.0 | 31.22 | 55.90 | 684.62 | PASS |
| GV0006029 | AN449 | 6 | 4500 | 64.6 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006030 | AN449 | 1 | 4500 | 64.3 | 0.0 | 0.0 | 31.26 | 55,95 | 684.90 | PASS |
| GV0006031 | AN449 | 2 | 4500 | 64.5 | 1.0 | 1.6 | 31.24 | 55.90 | 684.07 | PASS |
| GV0006032 | AN449 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.24 | 55.90 | 684.07 | PASS |
| GV0006033 | AN449 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0006034 | AN449 | 5 | 4500 | 65.0 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006035 | AN449 | 6 | 4500 | 64.8 | 0.1 | 0.2 | 31.24 | 55.90 | 684.07 | PASS |
| GV0006036 | AN449 | 1 | 4500 | 64.1 | 0.0 | 0.0 | 31.28 | 56.00 | 685.73 | PASS |
| GV0006037 | AN449 | 2 | 4500 | 64.4 | 1.2 | 1.9 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006037 GV0006038 | AN449 AN449 | 3 | 4500 | 64.1 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006038 GV0006039 | AN449 AN449 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.28 | 56.00 | 685.73 | PASS |
| GV0006039 GV0006040 | AN449 AN449 | 5 | 4500 | 64.5 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0006040 GV0006041 | AN449 AN449 | 6 | 4500 | 64.1 | 0.0 | 0.0 | 31.24 | 55.95 | 685.46 | PASS |
| GV0006041 GV0006042 | AN449 AN449 | 1 | 4500 | 64.6 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0006042 GV0006043 | AN449 AN449 | 2 | 4500 | 64.4 | 1.5 | 2.3 | 31.34 | 56.00 | 684.07 | PASS |
| GV0006043 GV0006044 | AN449 | 3 | 4500 | 63.8 | 0.0 | 0.0 | 31.22 | 55.95 | 686.01 | PASS |
| GV0006044 GV0006045 | AN449 AN449 | 4 | 4500 | 64.5 | 0.0 | 0.0 | 31.28 | 55,90 | 682.96 | PASS |
| GV0006045 GV0006046 | AN449 | 5 | 4500 | 64.6 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006040 GV0006047 | AN449 | 6 | 4500 | 64.5 | 0.0 | 0.0 | 31.16 | 55.90 | 686.29 | PASS |
| GV0006047 | AN449 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 55.85 | 680.46 | PASS |
| GV0006048 GV0006049 | AN449 | 2 | 4500 | 64.4 | 1.3 | 2.0 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006050 | AN449 | 3 | 4500 | 63.9 | 0.0 | 0.0 | 31.30 | 56.05 | 686.57 | PASS |
| GV0006050 GV0006051 | AN449 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006052 | AN449 | 5 | 4500 | 64.7 | 0.0 | 0.0 | 31.28 | 55,90 | 682.96 | PASS |
| GV0006052 GV0006053 | AN449 | 6 | 4500 | 64.0 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0006053 | AN449 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006054 GV0006055 | AN449 | 2 | 4500 | 64.2 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006055 GV0006056 | AN449 | 3 | 4500 | 63.9 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006058 GV0006057 | AN449 AN449 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0006057 GV0006058 | AN449 | 5 | 4500 | 64.6 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0006058 GV0006059 | AN449 | 6 | 4500 | 64.3 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006059 GV0006060 | AN449 AN449 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | |

~1

In accordance CGA Pamphlet C-1

| | | ** |
|---|------------|-----------|
| | Time: | 8:19 AM |
| Independent Inspector: T. H. Cochrane Labs | Day: | Friday |
| Manufacturer: Catalina Cylinders / Garden Grove | Test Date: | 29-Jul-16 |

Cylinder Type: S80-GV

Test Station: #4 Hydro

| Cylinder Serial | Cylinder Lot | Hydro Jkt | Actual T/P | Total Expan | Perm Expan | Ratio Perm/Tot | Empty Weight | Full Weight | Volume Capacity | Pass |
|--------------------|-----------------|--------------|---------------|----------------|---------------|-------------------|-----------------|----------------|--------------------|---------|
| Number | Number | Num | (psi) | (cc) | (cc) | (%) | (lbs) | (lbs) | (cu in) | or Fail |
| GV0006061 | AN449 | 2 | 4500 | 64.1 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0006062 | AN449 | 3 | 4500 | 63.9 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006063 | AN449 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006064 | AN449 | 5 | 4500 | 64.8 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0006065 | AN449 | 6 | 4500 | 64.7 | 0.3 | 0.5 | 31.34 | 55.95 | 682.68 | PASS |
| GV0006066 | AN449 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.24 | 56.00 | 686.84 | PASS |
| GV0006067 | AN449 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006068 | AN449 | 3 | 4500 | 64.0 | 0.0 | 0.0 | 31.20 | 55.95 | 686.57 | PASS |
| GV0006069 | AN449 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.20 | 55.85 | 683.79 | PASS |
| GV0006070 | AN449 | 5 | 4500 | 64.6 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006071 | AN449 | 6 | 4500 | 64.3 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0006072 | AN449 | 1 | 4520 | 64.4 | 0.0 | 0.0 | 31.18 | 56.00 | 688.51 | PASS |
| GV0006073 | AN449 | 2 | 4520 | 64.4 | 0.0 | 0.0 | 31.36 | 55.90 | 680.74 | PASS |
| GV0006074 | AN449 | 3 | 4520 | 64.0 | 0.0 | 0.0 | 31.22 | 55.90 | 684.62 | PASS |
| GV0006075 | AN449 | 4 | 4520 | 64.2 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006076 | AN449 | 5 | 4520 | 64.6 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0006077 | AN449 | 6 | 4520 | 64.3 | 0.0 | 0.0 | 31.36 | 55.90 | 680.74 | PASS |
| GV0006078 | AN449 | 1 | 4500 | 64.1 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006079 | AN449 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.20 | 55.90 | 685.18 | PASS |
| GV0006080 | AN449 | 3 | 4500 | 64.1 | 0.0 | 0.0 | 31.20 | 55.90 | 685.18 | PASS |
| GV0006081 | AN449 | 4 | 4500 | 64.1 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006082 | AN449 | 5 | 4500 | 64.4 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006083 | AN449 | 6 | 4500 | 64.0 | 0.0 | 0.0 | 31.36 | 55.90 | 680.74 | PASS |
| GV0006084 | AN449 | 1 | 4500 | 64.1 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0006085 | AN449 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0006086 | AN449 | 3 | 4500 | 64.2 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006087 | AN449 | 4 | 4500 | 64.0 | 0.0 | 0.0 | 31.24 | 55.95 | 685.46 | PASS |
| GV0006088 | AN449 | 5 | 4500 | 64.6 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0006089 | AN449 | 6 | 4500 | 64.5 | 0.1 | 0.2 | 31.34 | 55.90 | 681.29 | PASS |
| GV0006090 | AN449 | 1 | 4500 | 64.2 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006091 | AN449 | 2 | 4500 | 64.6 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006092 | AN449 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.24 | 55.90 | 684.07 | PASS |
| GV0006093 | AN449 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006094 | AN449 | 5 | 4500 | 64.6 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006095 | AN449 | 6 | 4500 | 64.1 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS |
| GV0006096 | AN449 | 1 | 4500 | 64.3 | 0.0 | 0.0 | 31.34 | 56.05 | 685.46 | PASS |
| GV0006097 | AN449 | 2 | 4500 | 64.6 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006098 | AN449 | 3 | 4500 | 64.5 | 0.0 | 0.0 | 31.30 | 56.05 | 686.57 | PASS |
| GV0006099 | AN449 | 4 | 4500 | 64.5 | 0.0 | 0.0 | 31.22 | 56.00 | 687.40 | PASS |
| GV0006100 | AN449 | 5 | 4500 | 65.1 | 0.0 | 0.0 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006101 | AN449 | 6 | 4500 | 64.8 | 0.0 | 0.0 | 31.30 | 55.85 | 681.02 | PASS |
| GV0006102 | AN449 | 1 | 4520 | 64.6 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |

In accordance CGA Pamphlet C-1 Manufacturer: Catalina Cylinders / Garden Grove 29-Jul-16 Test Date: Independent Inspector: T. H. Cochrane Labs Friday Day: 8:19 AM Time: #4 Hydro

Cylinder Type: S80-GV

Test Station:

| 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 |
|------------------------------|---------------------------|---------------------|-----------------------------------|------------------------|-----------------------|--------------------------|--------------------------|-------------------------|-------------------------------|-----------------|
| GV0006103 | AN449 | 2 | 4520 | 64.6 | 0.0 | 0.0 | 31.20 | 55.95 | 686.57 | PASS |
| GV0006104 | AN449 | 3 | 4520 | 64.5 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006105 | AN449 | 4 | 4520 | 64.5 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006106 | AN449 | 5 | 4520 | 64.9 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006107 | AN449 | 6 | 4520 | 64.4 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006108 | AN449 | 1 | 4500 | 64.3 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006109 | AN449 | 2 | 4500 | 64.3 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0006110 | AN449 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS |
| GV0006111 | AN449 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006112 | AN449 | 5 | 4500 | 65.0 | 0.1 | 0.2 | 31.30 | 56.00 | 685.18 | PASS |
| GV0006113 | AN449 | 6 | 4500 | 64.4 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006114 | AN449 | 1 | 4500 | 64.3 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006115 | AN449 | 2 | 4500 | 64.3 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006116 | AN449 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006117 | AN449 | 4 | 4500 | 64.5 | 0.0 | 0.0 | 31.20 | 56.00 | 687.95 | PASS |
| GV0006118 | AN449 | 5 | 4500 | 65.0 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006119 | AN449 | 6 | 4500 | 64.8 | 0.0 | 0.0 | 31.32 | 56.05 | 686.01 | PASS |
| GV0006120 | AN449 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006121 | AN449 | 2 | 4500 | 64.6 | 0.0 | 0.0 | 31.24 | 55.95 | 685.46 | PASS |
| GV0006122 | AN449 | 3 | 4500 | 64.6 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006123 | AN449 | 4 | 4500 | 64.6 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006124 | AN449 | 5 | 4500 | 65.0 | 0.0 | 0.0 | 31.24 | 56.00 | 686.84 | PASS |
| GV0006125 | AN449 | 6 | 4500 | 64.7 | 0.0 | 0.0 | 31.28 | 56.05 | 687.12 | PASS |
| GV0006126 | AN449 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006127 | AN449 | 2 | 4500 | 64.6 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006128 | AN449 | 3 | 4500 | 64.7 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006129 | AN449 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.26 | 55.95 | 684.90 | PASS |
| GV0006130 | AN449 | 5 | 4500 | 64.7 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006131 | AN449 | 6 | 4500 | 64.5 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006132 | AN449 | 1 | 4500 | 64.6 | 0.2 | 0.3 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006133 | AN449 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006134 | AN449 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006135 | AN449 | 4 | 4500 | 64.3 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006136 | AN449 | 5 | 4500 | 64.8 | 0.1 | 0.2 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006137 | AN449 | 6 | 4500 | 64.9 | 0.2 | 0.3 | 31.34 | 55.95 | 682.68 | PASS |
| GV0006138 | AN449 | 1 | 4500 | 64.6 | 0.1 | 0.2 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006139 | AN449 | 2 | 4500 | 64.5 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006140 | AN449 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.24 | 55.90 | 684.07 | PASS |
| GV0006141 | AN449 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.24 | 55.95 | 685.46 | PASS |
| GV0006142 | AN449 | 5 | 4500 | 64.9 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006143 | AN449 | 6 | 4500 | 64.5 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006144 | AN449 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |

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| In accordance CGA Par | nphlet C-1 | |
|---|---------------|-----------|
| Manufacturer: Catalina Cylinders / Garden Grove | Test Date: | 29-Jul-16 |
| Independent Inspector: T. H. Cochrane Labs | Day: | Friday |
| | Time: | 8:19 AM |
| Cylinder Type: S80-GV | Test Station: | # 4 Hydro |

| 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 |
|------------------------------|---------------------------|---------------------|------------------------|------------------------|-----------------------|--------------------------|--------------------------|-------------------------|-------------------------------|-----------------|
| GV0006145 | AN449 | 2 | 4500 | 64.5 | 1.0 | 1.6 | 31.28 | 56.00 | 685.73 | PASS |
| GV0006146 | AN449 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS |
| GV0006147 | AN449 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.22 | 55.95 | 686.01 | PASS |
| GV0006148 | AN449 | 5 | 4500 | 64.6 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006149 | AN449 | 6 | 4500 | 64.6 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006150 | AN449 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006151 | AN449 | 2 | 4500 | 64.3 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0006152 | AN449 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006153 | AN449 | 4 | 4500 | 64.5 | 0.0 | 0.0 | 31.40 | 55.95 | 681.02 | PASS |
| GV0006154 | AN449 | 5 | 4500 | 64.8 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0006155 | AN449 | 6 | 4500 | 64.7 | 0.2 | 0.3 | 31.34 | 55.95 | 682.68 | PASS |
| GV0006156 | AN449 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.36 | 56.00 | 683.51 | PASS |
| GV0006157 | AN449 | 2 | 4500 | 64.2 | 0.0 | 0.0 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006158 | AN449 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.40 | 55.90 | 679.63 | PASS |
| GV0006159 | AN449 | 4 | 4500 | 64.6 | 0.0 | 0.0 | 31.36 | 55.85 | 679.35 | PASS |
| GV0006160 | AN449 | 5 | 4500 | 65.1 | 0.1 | 0.2 | 31.22 | 55.85 | 683.24 | PASS |
| GV0006161 | AN449 | 6 | 4500 | 64.8 | 0.0 | 0.0 | 31.20 | 55.85 | 683.79 | PASS |
| GV0006162 | AN449 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.22 | 56.00 | 687.40 | PASS |
| GV0006163 | AN449 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006164 | AN449 | 3 | 4500 | 64.3 | 0.0 | 0.0 | 31.38 | 55.90 | 680.18 | PASS |
| GV0006165 | AN449 | 4 | 4500 | 64.3 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS |
| GV0006166 | AN449 | 5 | 4500 | 64.8 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006167 | AN449 | 6 | 4500 | 64.2 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS |
| GV0006168 | AN449 | 1 | 4500 | 64.1 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006169 | AN449 | 2 | 4500 | 64.4 | 1.4 | 2.2 | 31.36 | 55.90 | 680.74 | PASS |
| GV0006170 | AN449 | 3 | 4500 | 64.2 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0006171 | AN449 | 4 | 4500 | 64.3 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0006172 | AN449 | 5 | 4500 | 64.6 | 0.0 | 0.0 | 31.32 | 55.85 | 680.46 | PASS |
| GV0006173 | AN449 | 6 | 4500 | 64.5 | 0.0 | 0.0 | 31.36 | 55.90 | 680.74 | PASS |
| GV0006174 | AN449 | 1 | 4500 | 64.3 | 0.0 | 0.0 | 31.22 | 56.05 | 688.78 | PASS |
| GV0006175 | AN449 | 2 | 4500 | 64.6 | 0.0 | 0.0 | 31.28 | 56.05 | 687.12 | PASS |
| GV0006176 | AN449 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.36 | 56.00 | 683.51 | PASS |
| GV0006177 | AN449 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.34 | 56.00 | 684.07 | PASS |
| GV0006178 | AN449 | 5 | 4500 | 64.7 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0006179 | AN449 | 6 | 4500 | 64.5 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS |
| GV0006180 | AN449 | 1 | 4500 | 64.2 | 0.1 | 0.2 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006181 | AN449 | 2 | 4500 | 64.4 | 1.3 | 2.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006182 | AN449 | 3 | 4500 | 64.1 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006183 | AN449 | 4 | 4500 | 64.3 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006184 | AN449 | 5 | 4500 | 64.5 | 0.0 | 0.0 | 31.28 | 55.85 | 681.57 | PASS |
| GV0006185 | AN449 | 6 | 4500 | 64.6 | 0.1 | 0.2 | 31.30 | 56.00 | 685.18 | PASS |
| GV0006186 | AN449 | 1 | 4500 | 64.1 | 0.0 | 0.0 | 31.20 | 55.95 | 686.57 | PASS |

| In accordance CGA Parr | phlet C-1 | |
|---|---------------|-----------|
| Manufacturer: Catalina Cylinders / Garden Grove | Test Date: | 29-Jul-16 |
| Independent Inspector: T. H. Cochrane Labs | Day: | Friday |
| | Time: | 8:19 AM |
| Cylinder Type: S80-GV | Test Station: | # 4 Hydro |

| 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 Fai |
|------------------------------|---------------------------|---------------------|------------------------|------------------------|-----------------------|--------------------------|--------------------------|-------------------------|-------------------------------|----------------|
| GV0006187 | AN449 | 2 | 4500 | 64.1 | 0.7 | 1.1 | 31.36 | 55.90 | 680.74 | PASS |
| GV0006188 | AN449 | 3 | 4500 | 64.0 | 0.0 | 0.0 | 31.36 | 55.90 | 680.74 | PASS |
| GV0006189 | AN449 | 4 | 4500 | 64.5 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006190 | AN449 | 5 | 4500 | 64.8 | 0.0 | 0.0 | 31.26 | 56.00 | 686.29 | PASS |
| GV0006191 | AN449 | 6 | 4500 | 64.0 | 0.0 | 0.0 | 31.24 | 56.10 | 689.62 | PASS |
| GV0006192 | AN449 | 1 | 4500 | 64.4 | 0.1 | 0.2 | 31.40 | 56.05 | 683.79 | PASS |
| GV0006193 | AN449 | 2 | 4500 | 64.4 | 0.8 | 1.2 | 31.44 | 55.95 | 679.91 | PASS |
| GV0006194 | AN449 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.38 | 55.95 | 681.57 | PASS |
| GV0006195 | AN449 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.36 | 55.85 | 679.35 | PASS |
| GV0006196 | AN449 | 5 | 4500 | 64.9 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006197 | AN449 | 6 | 4500 | 64.3 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006198 | AN449 | 1 | 4520 | 64.2 | 0.0 | 0.0 | 31.24 | 55.95 | 685.46 | PASS |
| GV0006199 | AN449 | 2 | 4520 | 64.4 | 0.0 | 0.0 | 31.24 | 56.05 | 688.23 | PASS |
| GV0006200 | AN449 | 3 | 4520 | 64.3 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006201 | AN449 | 4 | 4520 | 64.0 | 0.0 | 0.0 | 31.38 | 55.95 | 681.57 | PASS |
| GV0006202 | AN449 | 5 | 4520 | 64.5 | 0.0 | 0.0 | 31.22 | 55.85 | 683.24 | PASS |
| GV0006203 | AN449 | 6 | 4520 | 64.7 | 0.0 | 0.0 | 31.38 | 56.00 | 682.96 | PASS |
| GV0006204 | AN449 | 1 | 4500 | 64.1 | 0.0 | 0.0 | 31.36 | 55.95 | 682.13 | PASS |
| GV0006205 | AN449 | 2 | 4500 | 64.5 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006206 | AN449 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006207 | AN449 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006208 | AN449 | 5 | 4500 | 64.4 | 0.0 | 0.0 | 31.26 | 55.80 | 680.74 | PASS |
| GV0006209 | AN449 | 6 | 4500 | 64.4 | 0.0 | 0.0 | 31.28 | 55.80 | 680.18 | PASS |
| GV0006210 | AN449 | 1 | 4520 | 64.4 | 0.0 | 0.0 | 31.28 | 55.80 | 680.18 | PASS |
| GV0006211 | AN449 | 2 | 4520 | 64.7 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |
| GV0006212 | AN449 | 3 | 4520 | 64.2 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0006213 | AN449 | 4 | 4520 | 64.6 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS |
| GV0006214 | AN449 | 1 | 4520 | 64.4 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006215 | AN449 | 2 | 4520 | 64.7 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |
| GV0006216 | AN449 | 3 | 4520 | 64.4 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006217 | AN449 | 4 | 4520 | 64.4 | 0.0 | 0.0 | 31.28 | 55.90 | 682.96 | PASS |

In accordance CGA Pamphlet C-1

| Manufacturer: Catalina Cylinders / Garden Grove | Test Date: | 29-Jul-16 |
|---|---------------|-----------|
| Independent Inspector: T. H. Cochrane Labs | Day: | Friday |
| | Time: | 10:51 AM |
| Cylinder Type: S80-GV | Test Station: | #4 Hydro |

Cylinder Type: S80-GV

Test Station:

| Cylinder Serial Number | Cylinder Lot Number | Hydro Jkt Num | Actual T/P (psi) | Total Expan (cc) | Perm Expan (cc) | Ratio Perm/Tot (%) | Empty Weight (Ibs) | Full Weight _(lbs) | Volume Capacity (cu in) | Pass or Fail |
|------------------------------|---------------------------|---------------------|------------------------|------------------------|-----------------------|--------------------------|--------------------------|------------------------------------|-------------------------------|-----------------|
| GV0006218 | AN450 | 1 | 4500 | 64.6 | 0.3 | 0.5 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006218 | AN450 | 2 | 4500 | 64.5 | 0.0 | 0.0 | 31.32 | 56.05 | 686.01 | PASS |
| GV0006219 | AN450 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006220 | AN450 | 4 | 4500 | 64.5 | 0.3 | 0.5 | 31.24 | 55.85 | 682.68 | PASS |
| GV00062221 | AN450 | 5 | 4500 | 65.1 | 0.3 | 0.5 | 31.36 | 56.00 | 683.51 | PASS |
| GV0006222 | AN450 | 6 | 4500 | 64.9 | 0.5 | 0.8 | 31.38 | 56.00 | 682.96 | PASS |
| GV0006223 | AN450 | 1 | 4500 | 64.7 | 0.2 | 0.3 | 31.24 | 55.90 | 684.07 | PASS |
| GV0006225 | AN450 | 2 | 4500 | 64.7 | 0.1 | 0.2 | 31.24 | 56.05 | 688.23 | PASS |
| GV0006225 | AN450 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.34 | 56.05 | 685.46 | PASS |
| GV0006220 | AN450 | 4 | 4500 | 64.5 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS |
| GV0006228 | AN450 | 5 | 4500 | 64.9 | 0.0 | 0.0 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006229 | AN450 | 6 | 4500 | 65.0 | 0.3 | 0.5 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006230 | AN450 | 1 | 4500 | 64.6 | 0.3 | 0.5 | 31.34 | 56.05 | 685.46 | PASS |
| GV0006230 | AN450 | 2 | 4500 | 64.6 | 0.1 | 0.2 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006232 | AN450 | 3 | 4500 | 64.2 | 0.0 | 0.0 | 31.32 | 56.05 | 686.01 | PASS |
| GV0006233 | AN450 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.34 | 56.05 | 685.46 | PASS |
| GV0006234 | AN450 | 5 | 4500 | 64.8 | 0.0 | 0.0 | 31.34 | 56.00 | 684.07 | PASS |
| GV0006235 | AN450 | 6 | 4500 | 64.9 | 0.2 | 0.3 | 31.32 | 56.00 | 684.62 | PASS |
| | AN450 | 1 | 4520 | 64.4 | 0.0 | 0.0 | 31.30 | 56.05 | 686.57 | PASS |
| GV0006236 | AN450 AN450 | 2 | 4520 | 64.5 | 0.0 | 0.0 | 31.26 | 56.05 | 687.67 | PASS |
| GV0006237 | AN450 AN450 | 3 | 4520 | 64.2 | 0.0 | 0.0 | 31.36 | 56.00 | 683.51 | PASS |
| GV0006238 GV0006239 | AN450 AN450 | 4 | 4520 | 64.6 | 0.0 | 0.0 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006239 GV0006240 | AN450 AN450 | 5 | 4520 | 65.1 | 0.0 | 0.0 | 31.36 | 55.95 | 682.13 | PASS |
| GV0006240 GV0006241 | AN450 | 6 | 4520 | 64.7 | 0.0 | 0.0 | 31.24 | 56.00 | 686.84 | PASS |
| GV0006241 GV0006242 | AN450 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS |
| GV0006242 GV0006243 | AN450 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 56.05 | 686.01 | PASS |
| GV0006243 | AN450 | 3 | 4500 | 64.3 | 0.0 | 0.0 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006244 | AN450 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.34 | 56.00 | 684.07 | PASS |
| GV0006245 | AN450 | 5 | 4500 | 64.8 | 0.1 | 0.2 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006240 | AN450 | 6 | 4500 | 64.2 | 0.0 | 0.0 | 31.34 | 56.05 | 685.46 | PASS |
| GV0006248 | AN450 | 1 | 4500 | 64.3 | 0.0 | 0.0 | 31.34 | 56.00 | 684.07 | PASS |
| GV0006249 | AN450 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.34 | 56.00 | 684.07 | PASS |
| GV0006250 | AN450 | 3 | 4500 | 64.0 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006251 | AN450 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006252 | AN450 | 5 | 4500 | 65.1 | 0.4 | 0.6 | 31.30 | 56.00 | 685.18 | PASS |
| GV0006253 | AN450 | 6 | 4500 | 64.7 | 0.1 | 0.2 | 31.34 | 56.00 | 684.07 | PASS |
| GV0006254 | AN450 | 1 | 4500 | 64.4 | 0.1 | 0.2 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006255 | AN450 | 2 | 4500 | 64.5 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS |
| GV0006256 | AN450 | 3 | 4500 | 64.5 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS |
| GV0006257 | AN450 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006258 | AN450 | 5 | 4500 | 64.9 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006259 | AN450 | 6 | 4500 | 64.2 | 0.0 | 0.0 | 31.28 | 56.00 | 685.73 | PASS |

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In accordance CGA Pamphlet C-1

| Manufacturer: Catalina Cylinders / Garde | en Grove Test Date: | 29-Jul-16 |
|--|---------------------|-----------|
| Independent Inspector: T. H. Cochrane Labs | Day: | Friday |
| | Time: | 10:51 AM |
| Culinder Tune: S80-GV | Tool Station: | # 4 Hydro |

Cylinder Type: 580

Test Sta

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|----------|---|-----|
| ation: # | 4 | Н |

| Cylinder Serial Number | Cylinder Lot Number | Hydro Jkt Num | Actual T/P _(psi) | Total Expan (cc) | Perm Expan (cc) | Ratio Perm/Tot (%) | Empty Weight (Ibs) | Full Weight (lbs) | Volume Capacity (cu in) | Pass or Fail |
|------------------------------|---------------------------|---------------------|-----------------------------------|------------------------|-----------------------|--------------------------|--------------------------|-------------------------|-------------------------------|-----------------|
| GV0006260 | AN450 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 56.05 | 686.57 | PASS |
| GV0006261 | AN450 | 2 | 4500 | 64.7 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0006262 | AN450 | 3 | 4500 | 64.1 | 0.0 | 0.0 | 31.28 | 56.00 | 685.73 | PASS |
| GV0006263 | AN450 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS |
| GV0006264 | AN450 | 5 | 4500 | 64.9 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006265 | AN450 | 6 | 4500 | 64.7 | 0.0 | 0.0 | 31.32 | 56.00 | 684.62 | PASS |
| GV0006266 | AN450 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS |
| GV0006267 | AN450 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006268 | AN450 | 3 | 4500 | 63.9 | 0.0 | 0.0 | 31.30 | 55.95 | 683.79 | PASS |
| GV0006269 | AN450 | 4 | 4500 | 64.3 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006270 | AN450 AN450 | 5 | 4500 | 64.8 | 0.0 | 0.0 | 31.30 | 55.90 | 682.13 | PASS |
| GV0006270 | AN450 | 6 | 4500 | 64.9 | 0.0 | 0.0 | 31.30 | 56.05 | 686.01 | PASS |
| GV0006271 | AN450 | 1 | 4500 | 64.4 | 0.2 | 0.0 | 31.32 | 55.90 | 680.18 | PASS |
| GV0006272 | AN450 | 2 | 4500 | 64.2 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS |
| GV0006273 | AN450 | 3 | 4500 | 64.2 | 0.0 | 0.0 | 31.30 | 55.90 | 681.85 | PASS |
| GV0006274 GV0006275 | AN450 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 56.00 | 684.07 | PASS |
| GV0006275 | AN450 | 5 | 4500 | 64.3 | 0.0 | 0.0 | 31.34 | 55.95 | 682.68 | PASS |
| GV0006278 GV0006277 | AN450 | 6 | | 64.3 | 0.0 | 0.0 | | 55.95 | 681.85 | PASS |
| GV0006277 GV0006278 | | 1 | 4500 | | | 0.0 | 31.32 | | | PASS |
| GV0006278 GV0006279 | AN450 | | 4500 | 64.4 | 0.0 | | 31.28 | 56.00 | 685.73 | PASS |
| GV0006279 GV0006280 | AN450 | 2 3 | 4500 | 64.3 | 0.1 | 0.2 | 31.38 | 55.95 | 681.57 | PASS |
| GV0006280 | AN450 | 3 | 4500 | 63.6 64.4 | 0.0 | 0.0 | 31.32 | 56.05 | 686.01 | PASS |
| GV0006281 GV0006282 | AN450 | 4 | 4500 | 65.0 | 0.0 | 0.0 | 31.26 | 56.00 | 686.29 | PASS |
| GV0006282 GV0006283 | AN450 AN450 | 6 | 4500 | 64.2 | 0.4 | 0.6 | 31.38 | 55.95 | 681.57 | PASS |
| GV0006283 | AN450 AN450 | 1 | 4500 4500 | 64.2 | 0.0 0.0 | 0.0 | 31.34 | 55.95 56.05 | 682.68 685.46 | PASS |
| GV0006284 GV0006285 | AN450 AN450 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.34 | | 682.96 | PASS |
| GV0006285 | AN450 AN450 | 2 | 4500 | 64.3 | | 0.0 | 31.38 31.34 | 56.00 55.95 | | PASS |
| GV0006286 GV0006287 | AN450 AN450 | 4 | 4500 | 64.4 | 0.0 | | | 55.95 | 682.68 681.29 | PASS |
| GV0006287 GV0006288 | AN450 | 4 | 4500 | 64.9 | 0.0 0.1 | 0.0 0.2 | 31.34 31.32 | 56.00 | 684.62 | PASS |
| GV0006288 GV0006289 | AN450 | 6 | 4500 | 64.5 | 0.1 | 0.2 | 31.32 | 55.85 | 679.91 | PASS |
| GV0006289 GV0006290 | AN450 AN450 | 1 | 4500 | 64.3 | 0.0 | 0.2 | 31.34 | 55.85 | 681.29 | PASS |
| GV0006290 GV0006291 | AN450 | 2 | 4500 | 64.6 | 0.0 | 0.0 | 31.34 | 55.90 | 684.07 | PASS |
| GV0006291 | AN450 | 2 | 4500 | 64.3 | 0.0 | 0.0 | 31.40 | 55.85 | 678.24 | PASS |
| GV0006292 GV0006293 | AN450 | | 4500 | 64.4 | | 0.0 | | 55.90 | 683.51 | PASS |
| GV0006293 | AN450 AN450 | 4 | 4500 | 65.1 | 0.0 0.2 | 0.0 | 31.26 31.22 | 55.85 | 683.24 | PASS |
| GV0006294 | AN450 AN450 | 5 | | | | | | | 684.07 | PASS |
| GV0006295 GV0006296 | | 6 | 4500 | 64.3 | 0.0 | 0.0 | 31.24 | 55.90 | | PASS |
| GV0006296 GV0006297 | AN450 AN450 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.20 | 55.95 | 686.57 | PASS |
| GV0006297 GV0006298 | | 2 | 4500 | 64.4 | 0.1 | 0.2 | 31.24 | 55.95 | 685.46 | |
| | AN450 | 3 | 4500 | 64.1 | 0.0 | 0.0 | 31.18 | 55.90 | 685.73 | PASS |
| GV0006299 GV0006300 | AN450 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.22 | 55.90 | 684.62 | PASS |
| | AN450 | 5 | 4500 | 64.9 | 0.0 | 0.0 | 31.36 | 55.95 | 682.13 | PASS |
| GV0006301 | AN450 | 6 | 4500 | 64.3 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS |

In accordance CGA Pamphlet C-1 Manufacturer: Catalina Cylinders / Garden Grove Test Date: 29-Jul-16 Independent Inspector: T. H. Cochrane Labs Day: Friday Time: 10:51 AM

Cylinder Type: S80-GV

#4 Hydro Test Station:

| 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 | |
|------------------------------|---------------------------|---------------------|------------------------|------------------------|-----------------------|--------------------------|--------------------------|-------------------------|-------------------------------|-----------------|----|
| GV0006302 | AN450 | 1 | 4500 | 64.0 | 0.0 | 0.0 | 31.24 | 55.90 | 684.07 | PASS | ٥, |
| GV0006303 | AN450 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.20 | 55.95 | 686.57 | PASS | |
| GV0006304 | AN450 | 3 | 4500 | 63.9 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS | |
| GV0006305 | AN450 | 4 | 4500 | 63.8 | 0.0 | 0.0 | 31.36 | 55.95 | 682.13 | PASS | |
| GV0006306 | AN450 | 5 | 4500 | 64.7 | 0.1 | 0.2 | 31.26 | 55.95 | 684.90 | PASS | |
| GV0006307 | AN450 | 6 | 4500 | 64.6 | 0.2 | 0.3 | 31.30 | 55,95 | 683.79 | PASS | |
| GV0006308 | AN450 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 56.00 | 684.62 | PASS | |
| GV0006309 | AN450 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.36 | 55.95 | 682.13 | PASS | |
| GV0006310 | AN450 | 3 | 4500 | 64.1 | 0.0 | 0.0 | 31.36 | 55.95 | 682.13 | PASS | |
| GV0006311 | AN450 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS | |
| GV0006312 | AN450 | 5 | 4500 | 65.0 | 0.1 | 0.2 | 31.30 | 55.85 | 681.02 | PASS | |
| GV0006313 | AN450 | 6 | 4500 | 64.4 | 0.0 | 0.0 | 31.30 | 56.00 | 685.18 | PASS | |
| GV0006314 | AN450 | 1 | 4500 | 64.2 | 0.0 | 0.0 | 31.32 | 56.00 | 684.62 | PASS | |
| GV0006315 | AN450 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 56.00 | 684.62 | PASS | |
| GV0006316 | AN450 | 3 | 4500 | 64.0 | 0.0 | 0.0 | 31.22 | 55.85 | 683.24 | PASS | |
| GV0006317 | AN450 | 4 | 4500 | 64.2 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS | |
| GV0006318 | AN450 | 5 | 4500 | 65.0 | 0.4 | 0.6 | 31.30 | 56.00 | 685.18 | PASS | |
| GV0006319 | AN450 | 6 | 4500 | 64.0 | 0.0 | 0.0 | 31.38 | 55.95 | 681.57 | PASS | |
| GV0006320 | AN450 | 1 | 4520 | 64.3 | 0.0 | 0.0 | 31.22 | 55.95 | 686.01 | PASS | |
| GV0006321 | AN450 | 2 | 4520 | 64.7 | 0.0 | 0.0 | 31.32 | 55.90 | 681.85 | PASS | |
| GV0006322 | AN450 | 3 | 4520 | 64.3 | 0.0 | 0.0 | 31.36 | 55.90 | 680.74 | PASS | |
| GV0006323 | AN450 | 4 | 4520 | 64.4 | 0.0 | 0.0 | 31.30 | 55.90 | 682.40 | PASS | |
| GV0006324 | AN450 | 5 | 4520 | 65.1 | 0.2 | 0.3 | 31.30 | 55.95 | 683.79 | PASS | |
| GV0006325 | AN450 | 6 | 4520 | 64.5 | 0.0 | 0.0 | 31.22 | 55.95 | 686.01 | PASS | |
| GV0006326 | AN450 | 1 | 4500 | 64.5 | 0.3 | 0.5 | 31.26 | 55.85 | 682.13 | PASS | |
| GV0006327 | AN450 | 2 | 4500 | 64.6 | 0.0 | 0.0 | 31.26 | 55.90 | 683.51 | PASS | |
| GV0006328 | AN450 | 3 | 4500 | 64.3 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS | |
| GV0006329 | AN450 | 4 | 4500 | 64.3 | 0.0 | 0.0 | 31.34 | 55.90 | 681.29 | PASS | |
| GV0006330 | AN450 | 5 | 4500 | 65.0 | 0.1 | 0.2 | 31.22 | 55.95 | 686.01 | PASS | |
| GV0006331 | AN450 | 6 | 4500 | 64.5 | 0.0 | 0.0 | 31.28 | 55.95 | 684.35 | PASS | |
| GV0006332 | AN450 | 1 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 55.95 | 683.24 | PASS | |
| GV0006333 | AN450 | 2 | 4500 | 64.4 | 0.0 | 0.0 | 31.26 | 55.85 | 682.13 | PASS | |
| GV0006334 | AN450 | 3 | 4500 | 64.4 | 0.0 | 0.0 | 31.32 | 55.85 | | PASS | |
| GV0006335 | AN450 | 4 | 4500 | 64.4 | 0.0 | 0.0 | 31.28 | 55.85 | | PASS | |
| GV0006336 | AN450 | 5 | 4500 | 65.0 | 0.0 | 0.0 | 31.36 | 55.85 | | PASS | |