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 E-mail: ServiceTeam@AirCheckLab.com

SOME INFORMATION BELOW IS PREPRINTED FROM YOUR PREVIOUS AIR TEST. IF ANY OF THE INFORMATION HAS CHANGED OR IS INCORRECT, PLEASE MARK ONE LINE THROUGH IT AND CAREFULLY PRINT THE CORRECT INFORMATION.

**1 Contact Information**

Customer ID  Customer Name  Country

Contact  E-mail  Phone  Fax

Alternate  E-mail  Phone  Fax

Please check box to the left if you'd like the AirCheck Report sent to the person below (fill in information).

Contact  E-mail

**2 Rush Analysis Request**

RUSH REQUESTED, \$100 extra, Initial Here  By initialing, I understand that I am authorizing Same Day Analysis & Reporting for an add'l \$100 per sample.  
**CALL CUST. SERVICE @ EXT 3 TO SCHEDULE RUSH SVC. Samples must arrive at Trace by 10:30 a.m.**

**3 Purchase Order Information (if applicable)**

PO Number:  PO Valid Thru:

**5 Customer Comments (use back if needed)**

**4 System Information**

Sampled For:

Testing Schedule:  45 Days  Monthly  Semi-Annual  
 120 Days  Other  Startup  
 Annual  Quarterly  Verification  
 Bimonthly  Random Sample  Weekly

Air Spec: Indicate air spec below (two maximum):  
 OSHA 1910.134-Cylinders  OSHA 1910.134-Compressor  
 OSHA 1910.430-Com. Diving  Fire - NFPA 1989  
 CGA Grade D-SCBA  CGA Grade D2-not SCBA  
 Sport Diving - CGA Grade E  Other \_\_\_\_\_  
 O CSA(>2216 psig)  O CSA(15-2216 psig)  O CSA<15 psig)

Make:

Model:

Serial No:

Cylinder:

Other ID:

Pressure:  High Pressure (1,000-6,000 psi)  
 Low Pressure (less than 1,000 psi)

Air used for:  SCBA  Airline Respirator  
 SCUBA  Other

Purification:  Molecular Sieve/Desiccant  No Purification  
 Refrigerated Dryer  Unknown  
 No Dryer

Sampled From:  Compressor  Source  Other  
 Stored Air  Outlet  
 Comp. & Storage  Breather Box

Comp. Hours:

(Lowest temp. low pressure breathing air may be exposed to during the year)

Lowest Temp:  °F  °F  °C

Sample Phase:  Before Filter Change  After Filter Change  Routine

**6 Sampled By and Sample Date**

SIGNATURE \_\_\_\_\_ PRINT Name (person taking the test sample) \_\_\_\_\_

Date Sample Taken  /  /

MONTH DAY YEAR

Submission of this air sample authorizes Trace Analytics, LLC to provide services. If a purchase order number is required by your company, please attach it to this data sheet or write it in the spaces provided in section "3". I attest that all information provided on this datasheet is truthful and accurate to the best of my knowledge.

**7 Sample Information**

Is this sample a Retest taken within 30 days of a failed test?  Yes  No

A Source Bottle, Filter, and Data Sheet MUST BE RETURNED for a complete analysis.

Filter Number (red or green label)

Flowrate (liters per minute)

Sample Time (minimum of 10 min.)

Detector Tube (OMIT data if sampling media does not include Detector Tube)

Tube Reading (0 - 200)  Total Minutes Sampled

Source Bottle Number (blue label)

Ambient Bottle Number (white label)

Odor is REQUIRED. It's determined by sniffing the air from the side port of the Bottle Holder. MARK ONLY ONE.  None/Slight  Pronounced

**PLEASE NOTE:**

Sample Shelf Life  
 Once a sample is taken, it must be received by our laboratory within 60 days.  
**NO EXCEPTIONS.**

Shelf Life  
 Sampling media must be used or returned for free replacement within 2 years of shipment date. See expiration date on return box.

— For TRACE Use Only - CBDS

DT Reading: Red / Gray                      Receiving I.D.                      Receiver's Initials

### Sampling Notes for Water Vapor Detector Tube

- 1: Break BOTH tips of detector tube before inserting. Arrow on tube points away from Fitting. 50 LPM for 10 minutes.
- 2: The DT is filled with yellow filler material that reacts to the presence of water by changing color from yellow to a grayish/reddish brown. At any time during the 10 minute test if color change reaches 200 mark, remove tube and note elapsed time on data sheet.

### Reading the Detector Tube for High Pressure Air Used for SCBA

The purpose of providing a detector tube for onsite testing is to allow you the opportunity to correct a problem without having to wait for the complete report. To determine if your sample passes; identify the farthest color change on the tube between 0 and 200; locate that number on chart below; identify the flowrate you took your sample on the left hand side of chart between 40 and 60; where the two readings intersect is the approximate result in °F. For example: If tube showed color change to 50, and flowrate was 50 LPM, the result would be -49°F. The number between 0 and 200 should be written on the data sheet not the dew point from the chart below.



Flowrate Reading	Det. Tube Reading, mg/m <sup>3</sup>	2.5	5	10	20	30	40	50	60	70	80	90	100	125	175	200
	60	-93	-84	-75	-66	-60	-56	-52	-49	-47	-45	-43	-42	-38	-33	-31
55	-92	-83	-74	-65	-58	-54	-51	-48	-45	-44	-42	-40	-36	-31	-29	
50	-90	-81	-72	-62	-56	-52	-49	-46	-44	-42	-40	-38	-34	-29	-27	
45	-88	-79	-70	-60	-54	-50	-47	-44	-41	-39	-38	-36	-32	-26	-24	
40	-86	-77	-68	-58	-52	-47	-44	-41	-39	-36	-35	-33	-29	-23	-21	

PASS	FAIL
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Above area marked "Pass" is for high pressure air used for SCBA; with a -65°F limit per CGA Grade D/NFPA 1989. See AirCheck Notebook Instructions for complete range of flowrates and further details.

If your detector tube reading indicates that you have a problem (anything outside of the PASS area in chart above); go through the following checklist; take corrective action; then retake your sample to see if the problem has been corrected. The 2<sup>nd</sup> test is free. Submit both samples for analysis to Trace's laboratory.

### Troubleshooting Checklist

Purification filters/ Depressurized filters	High ambient air temperatures (above 70°F) affect the operating life of the cartridge. Chemicals used in purification filters begin to degrade as soon as they are installed. Is it time to change the filters?
Manual/auto drain or priority valve	If not working properly can be source for excess water and reduce filter life.
Remote fill or hose reel	Long lengths (>25 ft) of hose are notorious for accumulating and retaining water. A short 1-2 minute purge WILL NOT be sufficient. It is best to take sample from a short fill hose (5-10 ft) or directly from containment fill station. - View our resource videos at <a href="http://www.AirCheckLab.com">www.AirCheckLab.com</a>
Recent hydrostat	Bottles must be properly dried after hydrostat and should be immediately pressurized with dry air.
Valves left open	Ambient air can easily have 10,000 - 50,000 ppm of water. Purge sufficiently to remove water accumulated from ambient air.
Sample taken from storage	Take sample from compressor to identify if compressor is producing dry air. If yes, storage banks may contain excess water. Drain and refill with dry air. This may require 2-3 fills to drive off water from inside cylinders. You can request extra detector tubes (\$10 ea) to do several checks for water without doing a complete air sample.
Detector tube cracked	Only the tips of the tube should be broken. If a crack runs down the main body of the tube, results will not be dependable.
Tube fitting wet	If multiple samples are taken consecutively, excess water may pool inside the fitting. Dry fitting between uses.
Other	Keep in mind that 1 milliliter (which is about 20 drops from an eyedropper) in a 1.7 cubic ft cylinder at 4500 psig would be 90 ppm of water vapor. It doesn't take much to fail.