Aircheck Report and Certificate

From:
Trace Analytics, LLC
15768 Hamilton Pool Road
Austin, Texas 78738

800-247-1024 • 512-263-0000
Fax 512-263-0002
E-mail service@AirCheckLab.com

To:
Mr. Gerald Bayus, Jr.
RecTEC Divers LLC
101 Leckrone Way
Cortland, OH 44410

TRACE Analytics LLC Analysis Certificate

Report 19-16967, Sampled on
5/20/2019

Next Sample Due Quarterly, Approximately
8/20/2019

RecTEC Divers LLC

IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:
Oxygen Compat. Air-2003 (I) & CGA G-7.1-2011 Grade E (2)

AS ANALYZED AND REPORTED ON THIS CERTIFICATE
FOR THE SAMPLE DESCRIBED UNDER SECTION "SAMPLE & REPORT INFORMATION"

ACCREDITED
American Assn for Laboratory Accreditation
1991: Certificate No. 322.01 Chemical Field of Testing

Maria Sandoval, Laboratory Director

Analytical Test Methods			Media Sampled		Estimate of Uncertainty
Gases & Vapors	CAT-A-01	Gas Chromatography/Mass Spectrometry	Source Bottle:	790643	The average analytical uncertainty (k=2) is 98.8±2.4% (relative) at the specification limit for the ten compounds normally reported. For uncertainty information for a specific compound, contact Trace Analytics.
Oil & Particulate	CAT-A-03	Analytical Gravimetry	Ambient Bottle:	434773	
Particle Size	CAT-A-04	Optical Microscopy	Source Filter:	168981	
Pressure Dew Point	CAT-A-07	Gas Detector Tube	Detector Tube:	Draeger 5-a/P	

Sample & Report Information

Sampled For	RecTEC Divers LLC
Sampled By	Gerald Bayus Jr.
Sampled On	5/20/2019
Received On	5/23/2019
Analyzed On	5/23/2019
Sampled From	Compressor
Make	Poseidon
Model	PFU150
Serial No.	PFU-15097042405
Hours	2305
Sample Phase	After Filter Change
Customer Comments	Replaced Final Filter. Cleaned/Replaced All Sinterec Filters, Filter Tower And Moisture Separator. Outside Temp 66 Degrees Humidity 67%.
Report Number	19-16967
Customer ID	32507
Date Reported	5/28/2019
Frequency	Quarterly
Next Sample Due Approx.	**8/20/2019**

Results of Test: PASS

Analytes	*Source Results*	*Ambient Results*	Specification[1] Allowable Limits	
Oxygen, Volume %	20.7	20.9	20-22	**PASS**
Nitrogen, Volume %	78.4	78.2	N/A	
Argon, Volume %	0.9	0.9	N/A	
Nitrogen Plus Argon, Volume %	79.3	N/A	N/A	
Carbon Monoxide (CO), ppmv	<0.5	<0.5	2	
Carbon Dioxide (CO_2), ppmv	8	459	1000	
Water Content (H_2O), ppmv/Dewpoint, °F	20.3 / -68	N/A	N/A / N/A (W)	
Atmospheric Dew Point, °F (DT)	-49	N/A	N/A	
TVHC (including CH_4), ppmv	1.9	5.7	25	
Methane (CH_4) ppmv	1.9	2.9	N/A	
TVHC (excluding CH_4), ppmv	<0.7	2.8	N/A	
Oil (condensed) & Particulate, mg/m^3	0.04	N/A	0.1	
Odor (provided by customer)	None/Slight	N/A	None/Slight	
Other	N/A	N/A	N/A	
Other	N/A	N/A	N/A	
Other	N/A	N/A	N/A	

(2) Water content is reported although not required by CGA G-7.1 for breathing air not used in conjunction with SCBA.
(I) This specification for oxygen compatible air is taken from ANSI/CGA G-7.1 Grade E as modified by International Association of Nitrox and Technical Divers (IANTD) in their document Blending Standards, 2003.
(W) Dew point is expressed in °F at one atmosphere pressure absolute.

(DT) Dew point is calculated at 1 atmosphere pressure (14.7 psia) from the detector tube reading.

Aircheck Report and Certificate

From:
Trace Analytics, LLC
15768 Hamilton Pool Road
Austin, Texas 78738

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E-mail service@AirCheckLab.com

To:
Mr. Gerald Bayus, Jr.
RecTEC Divers LLC
101 Leckrone Way
Cortland, OH 44410

TRACE Analytics LLC Analysis Certificate

Report 18-13705, Sampled on
5/2/2018

Next Sample Due Quarterly, Approximately
8/2/2018

RecTEC Divers LLC

IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:

Oxygen Compat. Air-2003 (I) & CGA G-7.1-2011 Grade E (2)

AS ANALYZED AND REPORTED ON THIS CERTIFICATE
FOR THE SAMPLE DESCRIBED UNDER SECTION "SAMPLE & REPORT INFORMATION"

ACCREDITED
American Assn for Laboratory Accreditation
1991: Certificate No. 322.01 Chemical Field of Testing

Richard A. Smith, Laboratory Director

Analytical Test Methods			Media Sampled		Estimate of Uncertainty
Gases & Vapors	CAT-A-01	Gas Chromatography/Mass Spectrometry	Source Bottle:	765995	The average analytical uncertainty (k=2) is 98.8±2.4% (relative) at the specification limit for the ten compounds normally reported. For uncertainty information for a specific compound, contact Trace Analytics.
Oil & Particulate	CAT-A-03	Analytical Gravimetry	Ambient Bottle:	N/A	
Particle Size	CAT-A-04	Optical Microscopy	Source Filter:	3100	
Pressure Dew Point	CAT-A-07	Gas Detector Tube	Detector Tube:	Draeger 5-a/P	

Sample & Report Information

Sampled For	RecTEC Divers LLC
Sampled By	Gerald Bayus Jr.
Sampled On	5/2/2018
Received On	5/4/2018
Analyzed On	5/4/2018
Sampled From	Compressor
Make	Poseidon
Model	PFU150
Serial No.	PFU-15097042405
Hours	2270
Sample Phase	Routine
Customer Comments	
Report Number	18-13705
Customer ID	32507
Date Reported	5/8/2018
Frequency	Quarterly
Next Sample Due Approx.	**8/2/2018**

Results of Test: PASS

Analytes	*Source Results*	*Ambient Results*	Specification[1] Allowable Limits
Oxygen, Volume %	21.0	N/A	20-22
Nitrogen, Volume %	78.1	N/A	N/A
Argon, Volume %	0.9	N/A	N/A
Nitrogen Plus Argon, Volume %	79.0	N/A	N/A
Carbon Monoxide (CO), ppmv	1.0	N/A	2
Carbon Dioxide (CO_2), ppmv	516	N/A	1000
Water Content (H_2O), ppmv/Dewpoint, °F	207 / -32	N/A	N/A / N/A (W)
Atmospheric Dew Point, °F (DT)	-49	N/A	N/A
TVHC (including CH_4), ppmv	4.5	N/A	25
Methane (CH_4) ppmv	2.5	N/A	N/A
TVHC (excluding CH_4), ppmv	2.0	N/A	N/A
Oil (condensed) & Particulate, mg/m^3	0.04	N/A	0.1
Odor (provided by customer)	None/Slight	N/A	None/Slight
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A

PASS

(2) Water content is reported although not required by CGA G-7.1 for breathing air not used in conjunction with SCBA.
(I) This specification for oxygen compatible air is taken from ANSI/CGA G-7.1 Grade E as modified by International Association of Nitrox and Technical Divers (IANTD) in their document Blending Standards, 2003.
(W) Dew point is expressed in °F at one atmosphere pressure absolute.

(DT) Dew point is calculated at 1 atmosphere pressure (14.7 psia) from the detector tube reading.

Aircheck Report and Certificate

From:
Trace Analytics, LLC
15768 Hamilton Pool Road
Austin, Texas 78738

800-247-1024 • 512-263-0000
Fax 512-263-0002
E-mail service@AirCheckLab.com

To:
Mr. Gerald Bayus, Jr.
RecTEC Divers LLC
101 Leckrone Way
Cortland, OH 44410

TRACE Analytics LLC Analysis Certificate

Report 17-14372, Sampled on
5/7/2017

Next Sample Due Quarterly, Approximately
8/7/2017

RecTEC Divers LLC

IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:

Oxygen Compat. Air-2003 (I) & CGA G-7.1-2011 Grade E (2)

AS ANALYZED AND REPORTED ON THIS CERTIFICATE
FOR THE SAMPLE DESCRIBED UNDER SECTION "SAMPLE & REPORT INFORMATION"

ACCREDITED
American Assn for Laboratory Accreditation
1991: Certificate No. 322.01 Chemical Field of Testing

Richard A. Smith, Laboratory Director

Analytical Test Methods			Media Sampled		Estimate of Uncertainty
Gases & Vapors	CAT-A-01	Gas Chromatography/Mass Spectrometry	Source Bottle:	758212	The average analytical uncertainty (k=2) is 98.8±2.4% (relative) at the specification limit for the ten compounds normally reported. For uncertainty information for a specific compound, contact Trace Analytics.
Oil & Particulate	CAT-A-03	Analytical Gravimetry	Ambient Bottle:	433686	
Particle Size	CAT-A-04	Optical Microscopy	Source Filter:	3357	
Pressure Dew Point	CAT-A-07	Gas Detector Tube	Detector Tube:	Draeger 5-a/P	

Sample & Report Information

Sampled For	RecTEC Divers LLC
Sampled By	Gerald Bayus Jr.
Sampled On	5/7/2017
Received On	5/12/2017
Analyzed On	5/12/2017
Sampled From	Compressor
Make	Poseidon
Model	PFU150
Serial No.	PFU-15097042405
Hours	2234
Sample Phase	Routine
Customer Comments	
Report Number	17-14372
Customer ID	32507
Date Reported	5/15/2017
Frequency	Quarterly
Next Sample Due Approx.	**8/7/2017**

Results of Test: PASS

Analytes	*Source Results*	*Ambient Results*	Specification[1] Allowable Limits	
Oxygen, Volume %	21.1	20.7	20-22	PASS
Nitrogen, Volume %	78.0	78.4	N/A	
Argon, Volume %	0.9	0.9	N/A	
Nitrogen Plus Argon, Volume %	78.9	N/A	N/A	
Carbon Monoxide (CO), ppmv	<0.3	<0.3	2	
Carbon Dioxide (CO_2), ppmv	466	544	1000	
Water Content (H_2O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	N/A / N/A (W)	
Atmospheric Dew Point, °F (DT)	-58	N/A	N/A	
TVHC (including CH_4), ppmv	2.5	10.5	25	
Methane (CH_4) ppmv	2.5	3.4	N/A	
TVHC (excluding CH_4), ppmv	<0.7	7.1	N/A	
Oil (condensed) & Particulate, mg/m^3	<0.02	N/A	0.1	
Odor (provided by customer)	None/Slight	N/A	None/Slight	
Other	N/A	N/A	N/A	
Other	N/A	N/A	N/A	
Other	N/A	N/A	N/A	

(2) Water content is reported although not required by CGA G-7.1 for breathing air not used in conjunction with SCBA.
(I) This specification for oxygen compatible air is taken from ANSI/CGA G-7.1 Grade E as modified by International Association of Nitrox and Technical Divers (IANTD) in their document Blending Standards, 2003.
(W) Dew point is expressed in °F at one atmosphere pressure absolute.

(DT) Dew point is calculated at 1 atmosphere pressure (14.7 psia) from the detector tube reading.

Aircheck Report and Certificate

From:
Trace Analytics, LLC
15768 Hamilton Pool Road
Austin, Texas 78738

800-247-1024 • 512-263-0000
Fax 512-263-0002
E-mail service@AirCheckLab.com

To:
Mr. Gerald Bayus, Jr.
RecTEC Divers LLC
101 Leckrone Way
Cortland, OH 44410

TRACE Analytics LLC Analysis Certificate

Report 16-13611, Sampled on
5/9/2016

Next Sample Due Quarterly, Approximately
8/9/2016

RecTEC Divers LLC

IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:

Oxygen Compat. Air-2003 (I) & CGA G-7.1-2011 Grade E (2)

AS ANALYZED AND REPORTED ON THIS CERTIFICATE
FOR THE SAMPLE DESCRIBED UNDER SECTION "SAMPLE & REPORT INFORMATION"

ACCREDITED
American Assn for Laboratory Accreditation
1991: Certificate No. 322.01 Chemical Field of Testing

Richard A. Smith, Laboratory Director

Analytical Test Methods			Media Sampled		Estimate of Uncertainty
Gases & Vapors	CAT-A-01	Gas Chromatography/Mass Spectrometry	Source Bottle:	775703	The average analytical uncertainty (k=2) is 98.8±2.4% (relative) at the specification limit for the ten compounds normally reported. For uncertainty information for a specific compound, contact Trace.
Oil & Particulate	CAT-A-03	Analytical Gravimetry	Ambient Bottle:	433663	
Particle Size	CAT-A-04	Optical Microscopy	Source Filter:	2523	

Sample & Report Information

Sampled For	RecTEC Divers LLC
Sampled By	Gerald Bayus
Sampled On	5/9/2016
Received On	5/13/2016
Analyzed On	5/13/2016
Sampled From	Compressor
Make	Poseidon
Model	PFU150
Serial No.	PFU-15097042405
Hours	2218
Sample Phase	Routine
Customer Comments	
Report Number	16-13611
Customer ID	32507
Date Reported	5/16/2016
Frequency	Quarterly
Next Sample Due Approx.	**8/9/2016**

Results of Test: PASS

Analytes	*Source Results*	*Ambient Results*	Specification[1] Allowable Limits	
Oxygen, Volume %	21.0	21.0	20-22	PASS
Nitrogen, Volume %	78.1	78.2	N/A	
Argon, Volume %	0.9	0.8	N/A	
Nitrogen Plus Argon, Volume %	79.0	N/A	N/A	
Carbon Monoxide (CO), ppmv	<0.3	<0.3	2	
Carbon Dioxide (CO_2), ppmv	381	371	1000	
Water Content (H_2O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	N/A / N/A (W)	
Atmospheric Dew Point, °F (DT)	-56	N/A	N/A	
TVHC (including CH_4), ppmv	2.2	2.0	25	
Methane (CH_4) ppmv	2.2	2.0	N/A	
TVHC (excluding CH_4), ppmv	<0.7	<0.7	N/A	
Oil (condensed) & Particulate, mg/m^3	0.03	N/A	0.1	
Odor (provided by customer)	None/Slight	N/A	None/Slight	
Other	N/A	N/A	N/A	
Other	N/A	N/A	N/A	
Other	N/A	N/A	N/A	

(2) Water content is reported although not required by CGA G-7.1 for breathing air not used in conjunction with SCBA.
(I) This specification for oxygen compatible air is taken from ANSI/CGA G-7.1 Grade E as modified by International Association of Nitrox and Technical Divers (IANTD) in their document Blending Standards, 2003.
(W) Dew point is expressed in °F at one atmosphere pressure absolute.

(DT) Dew point is calculated at 1 atmosphere pressure (14.7 psia) from the detector tube reading.

Aircheck Report and Certificate

From:
Trace Analytics, LLC
15768 Hamilton Pool Road
Austin, Texas 78738

800-247-1024 • 512-263-0000
Fax 512-263-0002
E-mail service@AirCheckLab.com

To:
Mr. Gerald Bayus, Jr.
RecTEC Divers LLC
101 Leckrone Way
Cortland, OH 44410

TRACE Analytics LLC Analysis Certificate

Report 15-28275, Sampled on
10/9/2015

Next Sample Due Quarterly, Approximately
1/9/2016

RecTEC Divers LLC

IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:

Oxygen Compat. Air-2003 (I) & CGA G-7.1-2011 Grade E (2)

AS ANALYZED AND REPORTED ON THIS CERTIFICATE

FOR THE SAMPLE DESCRIBED UNDER SECTION "SAMPLE & REPORT INFORMATION"

ACCREDITED
American Assn for Laboratory Accreditation
1991: Certificate No. 322.01 Chemical Field of Testing

Richard A. Smith, Laboratory Director

Analytical Test Methods			Media Sampled		Estimate of Uncertainty
Gases & Vapors	CAT-A-01	Gas Chromatography/Mass Spectrometry	Source Bottle:	758326	The average analytical uncertainty (k=2) is 98.8±2.4% (relative) at the specification limit for the ten compounds normally reported. For uncertainty information for a specific compound, contact Trace.
Oil & Particulate	CAT-A-03	Analytical Gravimetry	Ambient Bottle:	N/A	
Particle Size	CAT-A-04	Optical Microscopy	Source Filter:	3502	

Sample & Report Information

Sampled For	RecTEC Divers LLC
Sampled By	Illegible
Sampled On	10/9/2015
Received On	10/16/2015
Analyzed On	10/16/2015
Sampled From	Compressor
Make	Poseidon
Model	PFU150
Serial No.	PFU-15097042405
Hours	2202
Sample Phase	Routine
Customer Comments	
Report Number	15-28275
Customer ID	32507
Date Reported	10/19/2015
Frequency	Quarterly
Next Sample Due Approx.	**1/9/2016**

Results of Test: PASS

Analytes	*Source Results*	*Ambient Results*	Specification[1] Allowable Limits
Oxygen, Volume %	20.8	N/A	20-22
Nitrogen, Volume %	78.3	N/A	N/A
Argon, Volume %	0.9	N/A	N/A
Nitrogen Plus Argon, Volume %	79.2	N/A	N/A
Carbon Monoxide (CO), ppmv	<0.3	N/A	2
Carbon Dioxide (CO_2), ppmv	284	N/A	1000
Water Content (H_2O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	N/A / N/A (W)
Atmospheric Dew Point, °F (DT)	-67	N/A	N/A
TVHC (including CH_4), ppmv	2.1	N/A	25
Methane (CH_4) ppmv	2.1	N/A	N/A
TVHC (excluding CH_4), ppmv	<0.7	N/A	N/A
Oil (condensed) & Particulate, mg/m^3	<0.02	N/A	0.1
Odor (provided by customer)	None/Slight	N/A	None/Slight
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A

PASS

(2) Water content is reported although not required by CGA G-7.1 for breathing air not used in conjunction with SCBA.

(I) This specification for oxygen compatible air is taken from ANSI/CGA G-7.1 Grade E as modified by International Association of Nitrox and Technical Divers (IANTD) in their document Blending Standards, 2003.

(W) Dew point is expressed in °F at one atmosphere pressure absolute.

(DT) Dew point is calculated at 1 atmosphere pressure (14.7 psia) from the detector tube reading.

Aircheck Report and Certificate

From:
Trace Analytics, LLC
15768 Hamilton Pool Road
Austin, Texas 78738

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Fax 512-263-0002
E-mail service@AirCheckLab.com

To:
Mr. Gerald Bayus, Jr.
RecTEC Divers LLC
101 Leckrone Way
Cortland, OH 44410

TRACE Analytics LLC Analysis Certificate

Report 15-13454, Sampled on **5/13/2015**

Next Sample Due Quarterly, Approximately **8/13/2015**

RecTEC Divers LLC

IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:

Oxygen Compat. Air-2003 (I) & CGA G-7.1-2011 Grade E (2)

AS ANALYZED AND REPORTED ON THIS CERTIFICATE
FOR THE SAMPLE DESCRIBED UNDER SECTION "SAMPLE & REPORT INFORMATION"

ACCREDITED
American Assn for Laboratory Accreditation
1991: Certificate No. 322.01 Chemical Field of Testing

Richard A. Smith, Laboratory Director

Analytical Test Methods			Media Sampled		Estimate of Uncertainty
Gases & Vapors	CAT-A-01	Gas Chromatography/Mass Spectrometry	Source Bottle:	714874	The average analytical uncertainty (k=2) is 98.8±2.4% (relative) at the specification limit for the ten compounds normally reported. For uncertainty information for a specific compound, contact Trace.
Oil & Particulate	CAT-A-03	Analytical Gravimetry	Ambient Bottle:	424522	
Particle Size	CAT-A-04	Optical Microscopy	Source Filter:	2201	

Sample & Report Information

Sampled For	RecTEC Divers LLC
Sampled By	Gerald Bayus
Sampled On	5/13/2015
Received On	5/18/2015
Analyzed On	5/19/2015
Sampled From	Compressor
Make	Poseidon
Model	PFU150
Serial No.	PFU-15097042405
Hours	2195
Sample Phase	Routine
Customer Comments	
Report Number	15-13454
Customer ID	32507
Date Reported	5/20/2015
Frequency	Quarterly
Next Sample Due Approx.	**8/13/2015**

Results of Test: PASS

Analytes	*Source Results*	*Ambient Results*	Specification[1] Allowable Limits
Oxygen, Volume %	20.9	21.0	20-22
Nitrogen, Volume %	78.2	78.1	N/A
Argon, Volume %	0.9	0.9	N/A
Nitrogen Plus Argon, Volume %	79.1	N/A	N/A
Carbon Monoxide (CO), ppmv	<0.3	<0.3	2
Carbon Dioxide (CO_2), ppmv	416	432	1000
Water Content (H_2O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	N/A / N/A (W)
Atmospheric Dew Point, °F (DT)	-56	N/A	N/A
TVHC (including CH_4), ppmv	3.4	7.9	25
Methane (CH_4) ppmv	2.6	2.1	N/A
TVHC (excluding CH_4), ppmv	0.8	5.8	N/A
Oil (condensed) & Particulate, mg/m^3	<0.02	N/A	0.1
Odor (provided by customer)	None/Slight	N/A	None/Slight
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A

PASS

(2) Water content is reported although not required by CGA G-7.1 for breathing air not used in conjunction with SCBA.
(I) This specification for oxygen compatible air is taken from ANSI/CGA G-7.1 Grade E as modified by International Association of Nitrox and Technical Divers (IANTD) in their document Blending Standards, 2003.
(W) Dew point is expressed in °F at one atmosphere pressure absolute.

(DT) Dew point is calculated at 1 atmosphere pressure (14.7 psia) from the detector tube reading.

Aircheck Report and Certificate

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Austin, Texas 78738

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Fax 512-263-0002
E-mail service@AirCheckLab.com

To:
Mr. Gerald Bayus, Jr.
RecTEC Divers LLC
101 Leckrone Way
Cortland, OH 44410

TRACE Analytics LLC Analysis Certificate

Report 14-26241, Sampled on
9/30/2014

Next Sample Due Quarterly, Approximately
12/30/2014

RecTEC Divers LLC

IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:

Oxygen Compat. Air-2003 (I) & CGA G-7.1-2011 Grade E (2)

AS ANALYZED AND REPORTED ON THIS CERTIFICATE
FOR THE SAMPLE DESCRIBED UNDER SECTION "SAMPLE & REPORT INFORMATION"

ACCREDITED
American Assn for Laboratory Accreditation
1991: Certificate No. 322.01 Chemical Field of Testing

Richard A. Smith, Laboratory Director

Analytical Test Methods			Media Sampled		Estimate of Uncertainty
Gases & Vapors	CAT-A-01	Gas Chromatography/Mass Spectrometry	Source Bottle:	766244	The average analytical uncertainty (k=2) is 98.8±2.4% (relative) at the specification limit for the ten compounds normally reported. For uncertainty information for a specific compound, contact Trace.
Oil & Particulate	CAT-A-03	Analytical Gravimetry	Ambient Bottle:	429338	
Particle Size	CAT-A-04	Optical Microscopy	Source Filter:	3201	

Sample & Report Information	
Sampled For	RecTEC Divers LLC
Sampled By	Gerald Bayus Jr.
Sampled On	9/30/2014
Received On	10/3/2014
Analyzed On	10/3/2014
Sampled From	Compressor
Make	Poseidon
Model	PFU150
Serial No.	PFU-15097042405
Hours	2195
Sample Phase	Routine
Customer Comments	
Report Number	14-26241
Customer ID	32507
Date Reported	10/6/2014
Frequency	Quarterly
Next Sample Due Approx.	12/30/2014

Results of Test: PASS

Analytes	Source Results	Ambient Results	Specification[1] Allowable Limits
Oxygen, Volume %	20.9	21.0	20-22
Nitrogen, Volume %	78.2	78.2	N/A
Argon, Volume %	0.9	0.8	N/A
Nitrogen Plus Argon, Volume %	79.1	N/A	N/A
Carbon Monoxide (CO), ppmv	<0.3	<0.3	2
Carbon Dioxide (CO_2), ppmv	360	383	1000
Water Content (H_2O), ppmv/Dewpoint, °F	23.5 / -66	N/A	N/A / N/A (W)
Atmospheric Dew Point, °F (DT)	-87	N/A	N/A
TVHC (including CH_4), ppmv	2.5	2.5	25
Methane (CH_4) ppmv	2.5	2.5	N/A
TVHC (excluding CH_4), ppmv	<0.7	<0.7	N/A
Oil (condensed) & Particulate, mg/m^3	0.04	N/A	0.1
Odor (provided by customer)	None/Slight	N/A	None/Slight
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A

PASS

(2) Water content is reported although not required by CGA G-7.1 for breathing air not used in conjunction with SCBA.
(I) This specification for oxygen compatible air is taken from ANSI/CGA G-7.1 Grade E as modified by International Association of Nitrox and Technical Divers (IANTD) in their document Blending Standards, 2003.
(W) Dew point is expressed in °F at one atmosphere pressure absolute.

Aircheck Report and Certificate

From:
Trace Analytics, LLC
15768 Hamilton Pool Road
Austin, Texas 78738

800-247-1024 • 512-263-0000
Fax 512-263-0002
E-mail service@AirCheckLab.com

To:
Mr. Gerald Bayus, Jr.
RecTEC Divers LLC
101 Leckrone Way
Cortland, OH 44410

TRACE Analytics LLC Analysis Certificate

Report 14-13082, Sampled on
5/16/2014

Next Sample Due Quarterly, Approximately
8/16/2014

RecTEC Divers LLC

IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:

Oxygen Compat. Air-2003 (I) & CGA G-7.1-2011 Grade E (2)

AS ANALYZED AND REPORTED ON THIS CERTIFICATE
FOR THE SAMPLE DESCRIBED UNDER SECTION "SAMPLE & REPORT INFORMATION"

ACCREDITED
American Assn for Laboratory Accreditation
1991: Certificate No. 322.01 Chemical Field of Testing

Richard A. Smith, Laboratory Director

Analytical Test Methods			Media Sampled		Estimate of Uncertainty
Gases & Vapors	CAT-A-01	Gas Chromatography/Mass Spectrometry	Source Bottle:	762814	The average analytical uncertainty (k=2) is 98.8±2.4% (relative) at the specification limit for the ten compounds normally reported. For uncertainty information for a specific compound, contact Trace.
Oil & Particulate	CAT-A-03	Analytical Gravimetry	Ambient Bottle:	430098	
Particle Size	CAT-A-04	Optical Microscopy	Source Filter:	2153	

Sample & Report Information

Sampled For	RecTEC Divers LLC
Sampled By	Gerald Bayus Jr.
Sampled On	5/16/2014
Received On	5/19/2014
Analyzed On	5/19/2014
Sampled From	Compressor
Make	Poseidon
Model	PFU150
Serial No.	PFU-15097042405
Hours	2173
Sample Phase	Routine
Customer Comments	
Report Number	14-13082
Customer ID	32507
Date Reported	5/20/2014
Frequency	Quarterly
Next Sample Due Approx.	**8/16/2014**

Results of Test: PASS

Analytes	*Source Results*	*Ambient Results*	Specification[1] Allowable Limits
Oxygen, Volume %	21.0	20.9	20-22
Nitrogen, Volume %	78.1	78.2	N/A
Argon, Volume %	0.9	0.9	N/A
Nitrogen Plus Argon, Volume %	79.0	N/A	N/A
Carbon Monoxide (CO), ppmv	<0.3	<0.3	2
Carbon Dioxide (CO_2), ppmv	475	524	1000
Water Content (H_2O), ppmv/Dewpoint, °F	15.3 / -72	N/A	N/A / N/A (W)
Atmospheric Dew Point, °F (DT)	-58	N/A	N/A
TVHC (including CH_4), ppmv	2.3	2.0	25
Methane (CH_4) ppmv	2.3	2.0	N/A
TVHC (excluding CH_4), ppmv	<0.7	<0.7	N/A
Oil (condensed) & Particulate, mg/m^3	0.02	N/A	0.1
Odor (provided by customer)	None/Slight	N/A	None/Slight
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A

PASS

(2) Water content is reported although not required by CGA G-7.1 for breathing air not used in conjunction with SCBA.
(I) This specification for oxygen compatible air is taken from ANSI/CGA G-7.1 Grade E as modified by International Association of Nitrox and Technical Divers (IANTD) in their document Blending Standards, 2003.
(W) Dew point is expressed in °F at one atmosphere pressure absolute.

Aircheck Report and Certificate

From:
Trace Analytics, LLC
15768 Hamilton Pool Road
Austin, Texas 78738

800-247-1024 • 512-263-0000
Fax 512-263-0002
E-mail service@AirCheckLab.com

To:
Mr. Gerald Bayus, Jr.
RecTEC Divers LLC
101 Leckrone Way
Cortland, OH 44410

TRACE Analytics LLC Analysis Certificate

Report 13-32384, Sampled on
12/17/2013

Next Sample Due Quarterly, Approximately
3/17/2014

RecTEC Divers LLC

IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:

Oxygen Compat. Air-2003 (I) & CGA G-7.1-2011 Grade E (2)

AS ANALYZED AND REPORTED ON THIS CERTIFICATE
FOR THE SAMPLE DESCRIBED UNDER SECTION "SAMPLE & REPORT INFORMATION"

ACCREDITED
American Assn for Laboratory Accreditation
1991: Certificate No. 322.01 Chemical Field of Testing

Richard A. Smith, Laboratory Director

Analytical Test Methods			Media Sampled		Estimate of Uncertainty
Gases & Vapors	CAT-A-01	Gas Chromatography/Mass Spectrometry	Source Bottle:	737158	The average analytical uncertainty (k=2) is 98.8±2.4% (relative) at the specification limit for the ten compounds normally reported. For uncertainty information for a specific compound, contact Trace.
Oil & Particulate	CAT-A-03	Analytical Gravimetry	Ambient Bottle:	N/A	
Particle Size	CAT-A-04	Optical Microscopy	Source Filter:	148473	

Sample & Report Information

Sampled For	RecTEC Divers LLC
Sampled By	Gerald Bayus Jr.
Sampled On	12/17/2013
Received On	12/23/2013
Analyzed On	12/23/2013
Sampled From	Compressor
Make	Poseidon
Model	PFU150
Serial No.	PFU-15097042405
Hours	2167
Sample Phase	After Filter Change
Customer Comments	All Filters, Air Filters, Seperation Filters were changed at 2166 HRS.
Report Number	13-32384
Customer ID	32507
Date Reported	12/26/2013
Frequency	Quarterly
Next Sample Due Approx.	**3/17/2014**

Results of Test: PASS

Analytes	*Source Results*	*Ambient Results*	Specification[1] Allowable Limits
Oxygen, Volume %	20.9	N/A	20-22
Nitrogen, Volume %	78.3	N/A	N/A
Argon, Volume %	0.8	N/A	N/A
Nitrogen Plus Argon, Volume %	79.1	N/A	N/A
Carbon Monoxide (CO), ppmv	<0.3	N/A	2
Carbon Dioxide (CO_2), ppmv	14	N/A	1000
Water Content (H_2O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	N/A / N/A (W)
Atmospheric Dew Point, °F (DT)	-81	N/A	N/A
TVHC (including CH_4), ppmv	5.1	N/A	25
Methane (CH_4) ppmv	2.7	N/A	N/A
TVHC (excluding CH_4), ppmv	2.4	N/A	N/A
Oil (condensed) & Particulate, mg/m^3	<0.04 (IAV)	N/A	0.1
Odor (provided by customer)	None/Slight	N/A	None/Slight
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A

PASS

(2) Water content is reported although not required by CGA G-7.1 for breathing air not used in conjunction with SCBA.
(I) This specification for oxygen compatible air is taken from ANSI/CGA G-7.1 Grade E as modified by International Association of Nitrox and Technical Divers (IANTD) in their document Blending Standards, 2003.
(W) Dew point is expressed in °F at one atmosphere pressure absolute.

(DT) Dew point is calculated from the detector tube reading.
(IAV) To ensure accuracy, the air volume should be sufficient to provide a limit of quantitation of <1/4 of the specification limit; in this case 1000 L. Please refer to sampling instructions or contact Customer Service.

Aircheck Report and Certificate

From:
Trace Analytics, LLC
15768 Hamilton Pool Road
Austin, Texas 78738

800-247-1024 • 512-263-0000
Fax 512-263-0002
E-mail service@AirCheckLab.com

To:
Mr. Gerald Bayus, Jr.
RecTEC Divers LLC
101 Leckrone Way
Cortland, OH 44410

TRACE Analytics LLC Analysis Certificate

Report 13-32385, Sampled on
12/8/2013

Next Sample Due Quarterly, Approximately
3/8/2014

RecTEC Divers LLC

IS IN COMPLIANCE WITH THE AIR/GAS QUALITY PORTION OF THE SPECIFICATION:

Oxygen Compat. Air-2003 (I) & CGA G-7.1-2011 Grade E (2)

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1991: Certificate No. 322.01 Chemical Field of Testing

Richard A. Smith, Laboratory Director

Analytical Test Methods			Media Sampled		Estimate of Uncertainty
Gases & Vapors	CAT-A-01	Gas Chromatography/Mass Spectrometry	Source Bottle:	729202	The average analytical uncertainty (k=2) is 98.8±2.4% (relative) at the specification limit for the ten compounds normally reported. For uncertainty information for a specific compound, contact Trace.
Oil & Particulate	CAT-A-03	Analytical Gravimetry	Ambient Bottle:	428239	
Particle Size	CAT-A-04	Optical Microscopy	Source Filter:	1968	

Sample & Report Information

Sampled For	RecTEC Divers LLC
Sampled By	Gerald Bayus Jr.
Sampled On	12/8/2013
Received On	12/23/2013
Analyzed On	12/23/2013
Sampled From	Compressor
Make	Poseidon
Model	PFU150
Serial No.	PFU-15097042405
Hours	2166
Sample Phase	After Filter Change
Customer Comments	
Report Number	13-32385
Customer ID	32507
Date Reported	12/26/2013
Frequency	Quarterly
Next Sample Due Approx.	**3/8/2014**

Results of Test: PASS

Analytes	*Source Results*	*Ambient Results*	Specification[1] Allowable Limits
Oxygen, Volume %	20.7	20.9	20-22
Nitrogen, Volume %	78.4	78.2	N/A
Argon, Volume %	0.9	0.9	N/A
Nitrogen Plus Argon, Volume %	79.3	N/A	N/A
Carbon Monoxide (CO), ppmv	<0.3	<0.3	2
Carbon Dioxide (CO_2), ppmv	<4	1117	1000
Water Content (H_2O), ppmv/Dewpoint, °F	<3.4 / <-91	N/A	N/A / N/A (W)
Atmospheric Dew Point, °F (DT)	-67	N/A	N/A
TVHC (including CH_4), ppmv	4.7	11.8	25
Methane (CH_4) ppmv	2.7	3.6	N/A
TVHC (excluding CH_4), ppmv	2.0	8.2	N/A
Oil (condensed) & Particulate, mg/m^3	<0.05 (IAV)	N/A	0.1
Odor (provided by customer)	None/Slight	N/A	None/Slight
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A
Other	N/A	N/A	N/A

PASS

(2) Water content is reported although not required by CGA G-7.1 for breathing air not used in conjunction with SCBA.
(I) This specification for oxygen compatible air is taken from ANSI/CGA G-7.1 Grade E as modified by International Association of Nitrox and Technical Divers (IANTD) in their document Blending Standards, 2003.
(W) Dew point is expressed in °F at one atmosphere pressure absolute.

(DT) Dew point is calculated from the detector tube reading.
(IAV) To ensure accuracy, the air volume should be sufficient to provide a limit of quantitation of <1/4 of the specification limit; in this case 1000 L. Please refer to sampling instructions or contact Customer Service.