

BREATH ALCOHOL EQUIPMENT
REPAIR AND MAINTENANCE

Instrument: 8600 Serial Number: 80-004950 Location: TDXL

1. Instrument repairs/maintenance performed:

Calibration adjustment, replaced o-ring on calibration inlet
& breath hose, cleaned breath hose particulate screen, adjusted optical^{DS}
gas regulator

2. Does the instrument require further testing?

If Yes, continue.

If No, sign and date below.

Yes or No

3. If needed, set the time, date, and location.

4. Does the flow need to be calibrated?

If Yes, attach paperwork.

Yes or No

5. Does the optical bench need to be calibrated?

If Yes, attach test records.

Yes or No

6. Does the gas regulator need to be calibrated?

Yes or No

PSI gauge reading 100 PSI display reading 98

Set instrument to Wet Bath and run tests:

7. Low AC. Use < 0.03 AC in ACA mode. Attach test record.

Sim SN: DR3374 Lot #: 14240 AC: 0.020

8. Linearity Test. Use ≥ 0.25 AC in ACA mode. Attach test record.

Sim SN: DR3841 Lot #: 201408c AC: 0.300

Set instrument to Gas and run tests:

9. Print test. Attach test record. ✓

10. Interferent Check. Use a 0.10 AC ethanol plus 0.05% acetone in ABA mode. Attach test record. ✓

Sim SN: DRS144 Lot #: ICS 4 AC: 0.10% AC + 0.05% acetone

11. RFI Check. Run in CMS mode. Key radio during any room air or subject test. Attach test record. ✓

12. Calibration Check. Use a valid 0.080 AC Ethanol Gas Standard. Run three calibration sets in ACA mode. Attach test records. ✓

Lot No. 14214080A6 Cylinder No. 53 Expiration Date 07/05/16

Test 1 <u>0.080</u>	Test 1 <u>0.080</u>	Test 1 <u>0.079</u>
Test 2 <u>0.080</u>	Test 2 <u>0.079</u>	Test 2 <u>0.080</u>
Test 3 <u>0.080</u>	Test 3 <u>0.079</u>	Test 3 <u>0.079</u>

Average 0.080

Deb Shanaver
Field Inspector's Signature

29 Sept 15
Date

Charles E. Egan
Reviewed by

29 SEP 15
Date

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004950
 09/29/2015 10:03:52

Auto Calibration

pg 1 of 2

<<<<<			3um	>>>>>			<<<<<			9um	>>>>>		

Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)			% Abs	(% Abs Ref)				
Sample #1	0.0460	(0.0200)		0.1540	(-0.0020)			0.1780	(0.0010)				
Sample #2	0.0540	(0.0540)		0.1780	(-0.0010)			0.1970	(-0.0070)				
Sample #3	0.0900	(0.0570)		0.1740	(0.0010)			0.1830	(-0.0017)				
Sample #4	0.0330	(0.0990)		0.0123	(0.0046)			6.715	(277.128)				
Avg % Abs	0.0590	(0.0700)											
STD DEV	0.0288	(0.0252)											
REL STD DEV	48.859	(35.942)											

Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)			% Abs	(% Abs Ref)				
Sample #1	0.7740	(-0.0280)		1.4860	(-0.0520)			1.5380	(-0.0630)				
Sample #2	0.7720	(-0.0090)		1.5220	(-0.0570)			1.5050	(-0.0400)				
Sample #3	0.7470	(-0.0010)		1.5217	(-0.0533)			0.0165	(0.0119)				
Sample #4	0.7470	(0.0070)		1.085	(22.369)								
Avg % Abs	0.7553	(-0.0010)											
STD DEV	0.0144	(0.0080)											
REL STD DEV	1.911	(800.000)											

Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)			% Abs	(% Abs Ref)				
Sample #1	1.3800	(0.0190)		2.5090	(-0.0070)			2.6900	(-0.0930)				
Sample #2	1.3940	(0.0130)		2.7360	(-0.1240)			2.7630	(-0.1290)				
Sample #3	1.4070	(0.0160)		2.7297	(-0.1153)			0.0369	(0.0195)				
Sample #4	1.3950	(0.0200)		1.352	(16.909)								
Avg % Abs	1.3987	(0.0163)											
STD DEV	0.0072	(0.0035)											
REL STD DEV	0.517	(21.501)											

Solution = 0.150 g/210L or 0.7143 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)			% Abs	(% Abs Ref)				
Sample #1	2.5860	(0.0180)		4.9730	(-0.0150)			5.0000	(-0.0120)				
Sample #2	2.5890	(0.0310)		4.9310	(0.0210)			4.9680	(0.0130)				
Sample #3	2.5880	(0.0130)		4.9663	(0.0073)			0.0345	(0.0172)				
Sample #4	2.5610	(0.0350)		0.695	(234.741)								
Avg % Abs	2.5793	(0.0263)											
STD DEV	0.0159	(0.0117)											
REL STD DEV	0.616	(44.502)											

Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)			% Abs	(% Abs Ref)				
Sample #1	4.9960	(-0.0030)		9.3620	(0.0090)			9.3550	(0.0140)				
Sample #2	4.9800	(0.0200)		9.3590	(0.0170)			9.3890	(0.0180)				
Sample #3	4.9800	(0.0130)		9.3677	(0.0163)			0.0186	(0.0021)				
Sample #4	5.0020	(0.0240)		0.198	(12.745)								
Avg % Abs	4.9873	(0.0190)											
STD DEV	0.0127	(0.0056)											
REL STD DEV	0.255	(29.304)											

0.000 AC
 Milli-Q H₂O
 DR 3375

0.040 AC
 lot: 14010
 exp: 1/6/16
 DR 3846

0.080 AC
 lot: 14170
 exp: 7/14/16
 DR 5131

0.150 AC
 lot: 14060
 exp: 2/24/16
 DR 7089

0.300 AC
 lot: 201408C
 exp: 08/12/2011

Deb Shanaver

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004950
 09/29/2015 10:03:52

Auto Calibration

pg 2 of 2

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<<<<<      3um      >>>>>
-----
Zero Order Coef   -172.61
First Order Coef  2782.82
Second Order Coef 23.22
  
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<<<<<      9um      >>>>>
-----
                -267.58
                1436.24
                12.47
  
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Act      Fit      Residual
(g/210L) (g/210L)   (g/210L)
0.000    -0.000    0.0002
0.040     0.041   -0.0008
0.080     0.079    0.0009
0.150     0.150   -0.0004
0.300     0.300    0.0000
-----
  
```

```

-----
Act      Fit      Residual
(g/210L) (g/210L)   (g/210L)
0.000    -0.000    0.0001
0.040     0.041   -0.0009
0.080     0.079    0.0013
0.150     0.151   -0.0006
0.300     0.300    0.0001
-----
  
```

```

<<<<<      3um      >>>>>
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```

```

<<<<<      9um      >>>>>
-----
  
```

Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1 *0.080 AC*

Sample			
Sample #1	3488.00	3552.00	<i>lot: 29614080A2 Cyl: 4 exp: 12/05/2016</i>
Sample #2	3547.00	3410.00	
Sample #3	3505.00	3447.00	
Sample #4	3547.00	3447.00	
Avg	3533.0000	3434.6667	
STD DEV	24.2487	21.3620	
REL STD DEV	0.686	0.622	
H2O adjust (mg/l*10k)	276	375	

Atmospheric Pressure = 959

*****CALIBRATION SUCCESSFUL*****

Deb Shanaver

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004950
Location = TOXL 8164.13.00 06/09
09/29/2015 11:02

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	11:03
02 Std. Sol.	0.018	11:04
03 Room Air	0.000	11:04
04 Std. Sol.	0.018	11:05
05 Room Air	0.000	11:06
06 Std. Sol.	0.018	11:06
07 Room Air	0.000	11:07

08 Sim Temp = 34.0°C

Simul Ser No = DR3374
Std Sol No = 14240
County = 08 Oper No. = 777777

Deb Shanaver
Operator Signature
DEB KASHUR DS
Shanaver

Remarks:

low AC 0.020 AC

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004950
Location = TOXL 8164.13.00 06/09
09/29/2015 11:27

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	11:27
02 Std. Sol.	0.298	11:28
03 Room Air	0.000	11:29
04 Std. Sol.	0.299	11:30
05 Room Air	0.000	11:30
06 Std. Sol.	0.299	11:31
07 Room Air	0.000	11:31

08 Sim Temp = 34.0°C

Simul Ser No = DR3841

Std Sol No = 201408C

County = 08

Oper No. = 777777

Deb Shanaver

Operator Signature
DEB SHANAVER

Remarks:

Linearity test 0.300 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004950
Location = TOXL 8164.13.00 06/09
09/29/2015 13:40

***** Printer Test *****

abcdefghijklmnopqrstuvwxy1234567890-=_|
ABCDEFGHIJKLMNopqrstuvwxyz!@#%&^*()_+?

abcdefghijklmnopqrstuvwxy1234567890-=_|
ABCDEFGHIJKLMNopqrstuvwxyz!@#%&^*()_+?

Current Instrument Setup

Data Entry Mode: Enabled
Start Test Sequence: DABACABA
Display Prelim Rslt? Yes
Display Third Digit? Yes
Inhib Printer(Y/N)? No
Display Volume? No
Disable On Memfull? Yes
of Print Copies? 1
Select Std (D/W/I)? Dry
Standard Value? 0.080
Standard Lot #? 14214080A6
Standard Cyl #? 53
Standard Expiration? 07/05/2016
Oper No? 777777

Flow Cal. Date: 01/18/2010
Slope 774
Intercept -908904

IR Calibration Date: 09/29/2015
 3um 9um

0th Coef(*100): -17261 -26758
1st Coef(*100): 278282 143624
2nd Coef(*100): 2322 1247
H2O adj (mg/l*10k): 276 375

***** Printer Test End *****



Operator Signature
DEB SHANAVER

Remarks:

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004950
Location = TOXL 8164.13.00 06/09
09/29/2015 13:49

Test	AC	Time
01 Room Air	0.000	13:50
02 *Subject Test	INT*	13:51
03 Room Air	0.000	13:51

*Invalid Test
Interferent Detected

Sub Name = DISCOVER, THE SPIRIT
Sub DOB = 02/01/1992
Sub Sex = Female Weight = 150
Test = DUI Cit = NA
Dr. Lic. = ND/DIS921456
Lot No = 14214080A6
Cyl No = 53
Expiration Date = 07/05/2016
County = 08 Oper No. = 777777

Deb Shanaver

Operator Signature
DEB SHANAVER

Remarks:

Interferent check 0.10Ac + 0.05% acetone

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004950
Location = TOXL 8164.13.00 06/09
09/29/2015 13:54

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:55
02 Std. Gas	0.080	13:55
03 Room Air	0.000	13:55
04 Std. Gas	0.080	13:56
05 Room Air	0.000	13:56
06 Std. Gas	0.080	13:57
07 Room Air	0.000	13:57

Lot No = 14214080A6
Cyl No = 53
Exp Date = 07/05/2016
County = 08 Oper No. = 777777

Deb Shanaver

Operator Signature
DEB SHANAVER

Remarks:

Calibration check 0.080 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004950
Location = TOXL 8164.13.00 06/09
09/29/2015 13:57

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:58
02 Std. Gas	0.080	13:58
03 Room Air	0.000	13:59
04 Std. Gas	0.079	13:59
05 Room Air	0.000	14:00
06 Std. Gas	0.079	14:00
07 Room Air	0.000	14:01

Lot No = 14214080A6
Cyl No = 53
Exp Date = 07/05/2016
County = 08 Oper No. = 777777

Deb Shanaver

Operator Signature
DEB SHANAVER

Remarks:

Calibration check 0.080 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004950
Location = TOXL 8164.13.00 06/09
09/29/2015 14:04

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:04
02 Std. Gas	0.079	14:05
03 Room Air	0.000	14:05
04 Std. Gas	0.080	14:05
05 Room Air	0.000	14:06
06 Std. Gas	0.079	14:06
07 Room Air	0.000	14:07

Lot No = 14214080A6
Cyl No = 53
Exp Date = 07/05/2016
County = 08 Oper No. = 777777

Deb Shanaver
Operator Signature
DEB SHANAVER

Remarks:

Calibration check 0.080 AC
Form 106-I8000