

**BREATH ALCOHOL EQUIPMENT
REPAIR AND MAINTENANCE**

Instrument: 8000 Serial Number: 80-004184 Location: TOXL

1. Instrument repairs/maintenance performed:

ACA TESTS: KNOWN CONTROL RUNNING LOW DURING
CLASSROOM USE. CALIBRATION ADJUSTMENT
NEEDED.
REPLACED SIMULATOR RETURN O-RING.

2. Does the instrument require further testing? Yes or No
If Yes, continue.
If No, sign and date below.

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

4. Does the flow need to be calibrated? Yes or No
If Yes, attach paperwork.

5. Does the optical bench need to be calibrated? Yes or No
If Yes, attach test records.

6. Does the gas regulator need to be calibrated? Yes or No
PSI gauge reading ~675 PSI display reading 660

Set instrument to Wet Bath and run tests:

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

Sim SN: MP3066 Lot #: 15160 AC: 0.020

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

Sim SN: MP3069 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: DR5135 Lot #: ICS 4 AC: 0.10AC + 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. 1961508045 Cylinder No. 003 Expiration Date 9/5/2017

Test 1 0.080
Test 2 0.080
Test 3 0.080

Test 1 0.081
Test 2 0.080
Test 3 0.080

Test 1 0.081
Test 2 0.080
Test 3 0.080

Average 0.080

Charles E. Ehr
Field Inspector's Signature

Deb Shanaver
Reviewed by

7
12/5/2015
Date CEE

07 Dec 15
Date

<<<<<			3um	>>>>>	<<<<<			9um	>>>>>
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	0.1030	(-0.0150)		0.1760	(-0.0190)				0.000 AC
Sample #2	0.0600	(-0.0130)		0.1670	(-0.0380)				MP3067
Sample #3	0.0620	(-0.0310)		0.1530	(-0.0240)				MILLI Q
Sample #4	0.0530	(-0.0380)		0.1630	(-0.0420)				
Avg % Abs	0.0583	(-0.0273)		0.1610	(-0.0347)				
STD DEV	0.0047	(0.0129)		0.0072	(0.0095)				
REL STD DEV	8.101	(47.184)		4.479	(27.264)				
Solution = 0.050 g/210L or 0.2381 mg/l, Samples = 4, Discarded = 1									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	0.9320	(0.0080)		1.7610	(0.0200)				0.050 AC
Sample #2	0.9600	(0.0210)		1.8050	(0.0220)				MP3062
Sample #3	0.9270	(0.0440)		1.7840	(0.0200)				LOT: 14030
Sample #4	0.9310	(0.0560)		1.7650	(0.0470)				2
Avg % Abs	0.9393	(0.0403)		1.7847	(0.0297)				EXP: 1/13/16
STD DEV	0.0180	(0.0178)		0.0200	(0.0150)				
REL STD DEV	1.917	(44.097)		1.121	(50.711)				
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	1.8890	(-0.0160)		3.5540	(-0.0150)				0.100 AC
Sample #2	1.8690	(0.0120)		3.5520	(-0.0100)				MP3070
Sample #3	1.8530	(0.0280)		3.5520	(-0.0100)				LOT: 14030
Sample #4	1.8660	(0.0360)		3.5630	(-0.0010)				EXP: 1/20/16
Avg % Abs	1.8627	(0.0253)		3.5557	(-0.0070)				
STD DEV	0.0085	(0.0122)		0.0064	(0.0052)				
REL STD DEV	0.457	(48.238)		0.179	(74.231)				
Solution = 0.200 g/210L or 0.9524 mg/l, Samples = 4, Discarded = 1									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	3.5380	(0.0000)		6.7010	(-0.0190)				0.200 AC
Sample #2	3.5360	(0.0180)		6.7060	(0.0010)				MP3065
Sample #3	3.5280	(0.0180)		6.7020	(0.0120)				LOT: 14130
Sample #4	3.5350	(0.0110)		6.7070	(0.0130)				EXP: 5/12/16
Avg % Abs	3.5330	(0.0157)		6.7050	(0.0087)				
STD DEV	0.0044	(0.0040)		0.0026	(0.0067)				
REL STD DEV	0.123	(25.797)		0.039	(76.827)				
Solution = 0.400 g/210L or 1.9048 mg/l, Samples = 4, Discarded = 1									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	6.8160	(-0.0040)		12.6070	(-0.0040)				0.400 AC
Sample #2	6.8160	(0.0410)		12.6620	(0.0330)				MP3068
Sample #3	6.8510	(0.0470)		12.7190	(0.0440)				LOT: 14102
Sample #4	6.8230	(0.0620)		12.7050	(0.0550)				EXP: 4/23/16
Avg % Abs	6.8300	(0.0500)		12.6953	(0.0440)				
STD DEV	0.0185	(0.0108)		0.0297	(0.0110)				
REL STD DEV	0.271	(21.633)		0.234	(25.000)				

Charles E. Edwards
 12/7/15

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004184
 12/07/2015 14:02:29

Auto Calibration

pg 2 of 2

<<<< 3um >>>>

<<<< 9um >>>>

 Zero Order Coef -156.79
 First Order Coef 2635.58
 Second Order Coef 25.94

 Zero Order Coef -186.80
 First Order Coef 1369.48
 Second Order Coef 11.46

Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	-0.000	0.0001
0.050	0.049	0.0008
0.100	0.102	-0.0017
0.200	0.199	0.0010
0.400	0.400	-0.0001

Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	0.001	-0.0007
0.050	0.048	0.0018
0.100	0.101	-0.0014
0.200	0.200	0.0003
0.400	0.400	0.0000

<<<< 3um >>>>

<<<< 9um >>>>

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

0.080 AC

Sample #1	3458.00
Sample #2	3413.00
Sample #3	3400.00
Sample #4	3399.00
Avg	3404.0000
STD DEV	7.8102
REL STD DEV	0.229
H2O adjust (mg/l*10k)	405

3498.00	<i>Lot: 29614080A2</i>
3470.00	
3501.00	<i>Exp: 12/5/16</i>
3476.00	
3482.3333	<i>CYC: 006</i>
16.4418	
0.472	
327	

Atmospheric Pressure = 944

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

Charles E. Ellis
12/7/15

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004184
Location = TOXL 8164.13.00 06/09
12/07/2015 14:49

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:50
02 Std. Sol.	0.019	14:51
03 Room Air	0.000	14:51
04 Std. Sol.	0.020	14:52
05 Room Air	0.000	14:53
06 Std. Sol.	0.020	14:53
07 Room Air	0.000	14:54

08 Sim Temp = 34.0°C

Simul Ser No = MP3066
Std Sol No = 15160
County = 08 Oper No. = 666666



Operator Signature
CHARLES EDER

Remarks:

Low AC
0.020 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 80-004184
Location = TOXL 8164.13.00 06/09
12/07/2015 15:02

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:02
02 Std. Sol.	0.295	15:03
03 Room Air	0.000	15:04
04 Std. Sol.	0.294	15:04
05 Room Air	0.000	15:05
06 Std. Sol.	0.294	15:06
07 Room Air	0.000	15:06

08 Sim Temp = 34.0°C

Simul Ser No = MP3069
Std Sol No = 201408C
County = 08 Oper No. = 666666



Operator Signature
CHARLES EDER

Remarks: 0.300 AC
 LINEARITY TEST

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004184
Location = TOXL 8164.13.00 06/09
12/07/2015 15:12

Test	AC	Time
01 Room Air	0.000	15:13
02 *Subject Test	INT*	15:13
03 Room Air	0.000	15:14

*Invalid Test
Interferent Detected

Sub Name = DISCOVER, THE SPIRIT
Sub DOB = 01/01/1982
Sub Sex = Female Weight = 150
Test = DUI Cit = NA
Dr. Lic. = ND/DIS821456
Lot No = 29614080A2
Cyl No = 6
Expiration Date = 12/05/2016
County = 08 Oper No. = 666666



Operator Signature
CHARLES EDER

Remarks:

Interferent Check
0.010AC + 0.05% ACETONE

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004184
Location = TOXL 8164.13.00 06/09
12/07/2015 15:17

Test	AC	Time
01 Diagnostic	OK	15:19
02 Room Air	0.000	15:19
03 *Subject Test	RFI*	15:19
04 Room Air	0.000	15:20

*Invalid Test
Inhibited - RFI

Sub Name = DISCOVER, THE SPIRIT
Sub DOB = 01/01/1982
Sub Sex = Female Weight = 150
Test = DUI Cit = NA
Dr. Lic. = ND/DIS821456
Lot No = 29614080A2
Cyl No = 6
Expiration Date = 12/05/2016
County = 08 Oper No. = 666666

I followed the Approved Method and the instructions displayed by the Intoxilyzer in conducting this test.



Operator Signature
CHARLES EDER

Remarks:

RFI CHECK

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004184
Location = TOXL 8164.13.00 06/09
12/07/2015 15:27

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:27
02 Std. Gas	0.080	15:27
03 Room Air	0.000	15:28
04 Std. Gas	0.080	15:28
05 Room Air	0.000	15:29
06 Std. Gas	0.080	15:29
07 Room Air	0.000	15:30

Lot No = 19615080A5
Cyl No = 3
Exp Date = 09/05/2017
County = 08 Oper No. = 666666



Operator Signature
CHARLES EDER

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 80-004184
Location = TOXL 8164.13.00 06/09
12/07/2015 15:31

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:32
02 Std. Gas	0.081	15:32
03 Room Air	0.000	15:32
04 Std. Gas	0.080	15:33
05 Room Air	0.000	15:33
06 Std. Gas	0.080	15:34
07 Room Air	0.000	15:34

Lot No = 19615080A5
Cyl No = 3
Exp Date = 09/05/2017
County = 08 Oper No. = 666666



Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080AC

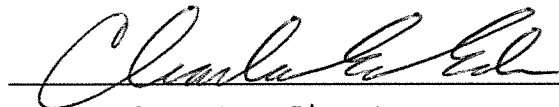
Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004184
Location = TOXL 8164.13.00 06/09
12/07/2015 15:34

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:35
02 Std. Gas	0.081	15:35
03 Room Air	0.000	15:36
04 Std. Gas	0.080	15:36
05 Room Air	0.000	15:37
06 Std. Gas	0.080	15:37
07 Room Air	0.000	15:38

Lot No = 19615080A5
Cyl No = 3
Exp Date = 09/05/2017
County = 08 Oper No. = 666666



Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080AC