

**BREATH ALCOHOL EQUIPMENT
REPAIR AND MAINTENANCE**

Instrument: 8000 Serial Number: 80-004689 Location: TOXL

1. Instrument repairs/maintenance performed:

Completed calibration adjustment due to low
concentration gas standards running low.

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.

X

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?

PSI gauge reading 980 PSI display reading 967

Yes or No

Set instrument to Wet Bath and run tests:

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

Sim SN: DR5188 Lot #: 16200 AC: 0.020 AC

X

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

Sim SN: DR3378 Lot #: 201605F AC: 0.400 AC

X

Set instrument to Gas and run tests:

9. Print test. Attach test record. X

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

Sim SN: DR5144 Lot #: ICSS AC: 0.10 AC and 0.05% ACE.

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

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

Lot No. 20016080A3 Cylinder No. 48 Expiration Date 5 Sep 18

Test 1 0.083

Test 1 0.083

Test 1 0.083

Test 2 0.083

Test 2 0.083

Test 2 0.083

Test 3 0.084

Test 3 0.084

Test 3 0.083

Average 0.083

Roberta Huggins-Nimmer
Field Inspector's Signature

20 Sep 17
Date

Charles E. Eda
Reviewed by

20 SEP. 2017
Date

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-006689
 09/19/2017 12:51:20

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)	
Sample #1	0.0900	(0.0190)	0.1690	(0.0270)	Simulator
Sample #2	0.0760	(0.0410)	0.1720	(0.0370)	DR7111
Sample #3	0.0500	(0.0830)	0.1560	(0.0480)	0.000 AC
Sample #4	0.0470	(0.1010)	0.1540	(0.0580)	milliQ H ₂ O
Avg % Abs	0.0577	(0.0750)	0.1607	(0.0477)	Exp. NA
STD DEV	0.0159	(0.0308)	0.0099	(0.0105)	
REL STD DEV	27.655	(41.053)	6.141	(22.036)	
Solution = 0.041 g/210L or 0.1952 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	0.7390	(-0.0020)	1.5050	(0.0030)	Simulator
Sample #2	0.7230	(0.0140)	1.5130	(0.0120)	DR 7089
Sample #3	0.7660	(0.0100)	1.5480	(-0.0020)	0.041 AC
Sample #4	0.7390	(0.0290)	1.5400	(0.0060)	lot - 201601D
Avg % Abs	0.7427	(0.0177)	1.5337	(0.0053)	Exp. 26 Jan 18
STD DEV	0.0217	(0.0100)	0.0183	(0.0070)	
REL STD DEV	2.926	(56.698)	1.196	(131.696)	
Solution = 0.081 g/210L or 0.3857 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	1.3980	(0.0060)	2.9190	(0.0070)	Simulator
Sample #2	1.4460	(0.0050)	2.9580	(0.0050)	DR 3841
Sample #3	1.4580	(0.0010)	2.9740	(-0.0030)	0.081 AC
Sample #4	1.4630	(-0.0040)	2.9680	(-0.0050)	lot - 201604F
Avg % Abs	1.4557	(0.0007)	2.9667	(-0.0010)	Exp. 19 Apr 18
STD DEV	0.0087	(0.0045)	0.0081	(0.0053)	
REL STD DEV	0.600	(676.388)	0.272	(529.150)	
Solution = 0.102 g/210L or 0.4857 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	1.7950	(-0.0140)	3.6620	(-0.0090)	Simulator
Sample #2	1.7710	(0.0100)	3.6650	(0.0110)	DR 5131
Sample #3	1.7920	(0.0130)	3.6880	(0.0030)	0.102 AC
Sample #4	1.8050	(0.0070)	3.6830	(-0.0020)	lot - 201603M
Avg % Abs	1.7893	(0.0100)	3.6787	(0.0040)	Exp. 20 Mar 18
STD DEV	0.0172	(0.0030)	0.0121	(0.0066)	
REL STD DEV	0.959	(30.000)	0.329	(163.936)	
Solution = 0.303 g/210L or 1.4429 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	5.0800	(-0.0210)	10.0520	(-0.0080)	Simulator
Sample #2	5.0690	(-0.0130)	10.0620	(0.0020)	DR 3375
Sample #3	5.0800	(0.0060)	10.0560	(0.0190)	0.303 AC
Sample #4	5.0900	(0.0040)	10.0500	(0.0170)	lot - 201603A
Avg % Abs	5.0797	(-0.0010)	10.0560	(0.0127)	Exp. 1 Mar 18
STD DEV	0.0105	(0.0104)	0.0060	(0.0093)	
REL STD DEV	0.207	(1044.031)	0.060	(73.355)	

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-006689
 09/19/2017 12:51:20

Auto Calibration

pg 2 of 2

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<<<<<      3um      >>>>>
-----
Zero Order Coef   -140.72
First Order Coef  2739.30
Second Order Coef 25.33
  
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<<<<<      9um      >>>>>
-----
Zero Order Coef   -182.20
First Order Coef  1330.81
Second Order Coef 12.11
  
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Act      Fit      Residual
(g/210L) (g/210L) (g/210L)
0.000    0.000    -0.0004
0.041    0.040     0.0009
0.081    0.082    -0.0009
0.102    0.102     0.0003
0.303    0.303     0.0000
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```

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Act      Fit      Residual
(g/210L) (g/210L) (g/210L)
0.000    0.001    -0.0007
0.041    0.040     0.0014
0.081    0.081    -0.0003
0.102    0.102    -0.0004
0.303    0.303     0.0001
-----
  
```

```

<<<<<      3um      >>>>>
-----
Solution = 0.101 g/210L or 0.4810 mg/l, Samples = 4, Discarded = 1
  
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<<<<<      9um      >>>>>
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Sample			
Sample #1	4220.00	4211.00	Ethanol Gas Std
Sample #2	4284.00	4206.00	lot 32316100A1
Sample #3	4214.00	4216.00	Cyl No. 003
Sample #4	4167.00	4209.00	Exp. 5Jan 19
Avg	4221.6665	4210.3335	0.100 AC
STD DEV	58.8756	5.1316	
REL STD DEV	1.395	0.122	
H2O adjust (mg/l*10k)	588	599	

Atmospheric Pressure = 938

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

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

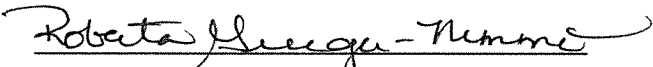
CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-006689
Location = TOXL 8164.14.00 09/16
09/20/2017 12:31

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	12:31
02 Std. Sol.	0.023	12:33
03 Room Air	0.000	12:33
04 Std. Sol.	0.023	12:34
05 Room Air	0.000	12:35
06 Std. Sol.	0.023	12:35
07 Room Air	0.000	12:36

08 Sim Temp = 34.0°C

Simul Ser No = DR5188
Std Sol No = 16200
County = 08 Oper No. = 888888


Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks: Low AC Wet bath
0.020 AC

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

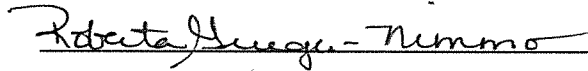
CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-006689
Location = TOXL 8164.14.00 09/16
09/20/2017 12:38

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	12:39
02 Std. Sol.	0.397	12:40
03 Room Air	0.000	12:40
04 Std. Sol.	0.399	12:41
05 Room Air	0.000	12:41
06 Std. Sol.	0.399	12:42
07 Room Air	0.000	12:43

08 Sim Temp = 34.0°C

Simul Ser No = DR3378
Std Sol No = 201605F
County = 08 Oper No. = 888888


Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks: *Linearity Test*
0.400 AC

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-006689
Location = TOXL 8164.14.00 09/16
09/20/2017 13:44

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

abcdefghijklmnopqrstuvwxy1234567890-=
ABCDEFGHIJKLMN0PQRSTUVWXYZ!@#%&*()_+?

abcdefghijklmnopqrstuvwxy1234567890-=
ABCDEFGHIJKLMN0PQRSTUVWXYZ!@#%&*()_+?

Current Instrument Setup

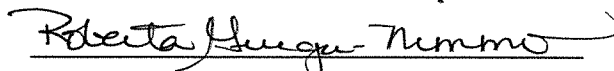
Data Entry Mode: Enabled
Start Test Sequence: DABACABA
Display Prelim Rslt? Yes
Display Third Digit? Yes
Inhib Printer(Y/N)? No
Display Volume? No
Disable On Memfull? Yes
of Print Copies? 1
Select Std (D/W/I)? Dry
Standard Value? 0.080
Standard Lot #? 20016080A2
Standard Cyl #? 48
Standard Expiration? 09/05/2018
Oper No? 888888

Flow Cal. Date: 09/19/2017
Slope 625
Intercept -591019

IR Calibration Date: 09/19/2017

	3um	9um
0th Coef(*100):	-14072	-18220
1st Coef(*100):	273930	133081
2nd Coef(*100):	2533	1211
H2O adj(mg/l*10k):	588	599

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



Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks: Print Test

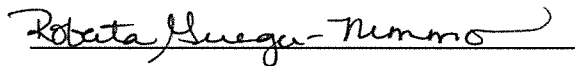
Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-006689
Location = TOXL 8164.14.00 09/16
09/20/2017 11:14

Test	AC	Time
01 Room Air	0.000	11:15
02 *Subject Test	INT*	11:17
03 Room Air	0.000	11:17

*Invalid Test
Interferent Detected

Sub Name = DISCOVER, THE SPIRIT
Sub DOB = 01/01/1982
Sub Sex = Female Weight = 150
Test = DUI Cit = INTERFERENT CHK
Dr. Lic. = ND/DIS821456
Simul Ser No = MP3067
Std Sol No = 201601A
County = 08 Oper No. = 888888



Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks: *Interferent Check*
0.10 AC + 0.05% ACE

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

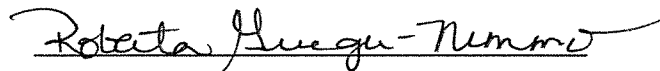
CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-006689
Location = TOXL 8164.14.00 09/16
09/20/2017 11:28

Test	AC	Time
01 Diagnostic	OK	11:29
02 Room Air	0.000	11:29
03 Subject Test 1	0.000	11:30
04 Room Air	0.000	11:32
05 Std. Gas	0.083	11:33
06 Room Air	RFI*	11:33
07 Room Air	0.000	11:34

*Invalid Test
Inhibited - RFI

Sub Name = DISCOVER, THE SPIRIT
Sub DOB = 01/01/1982
Sub Sex = Female Weight = 150
Test = DUI Cit = RFI CHECK
Dr. Lic. = ND/DIS821456
Lot No = 20016080A2
Cyl No = 48
Expiration Date = 09/05/2018
County = 08 Oper No. = 888888

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


Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks: RFI Check

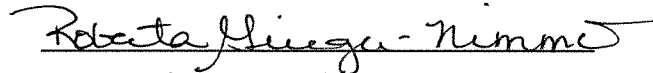
Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-006689
Location = TOXL 8164.14.00 09/16
09/20/2017 11:34

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	11:35
02 Std. Gas	0.083	11:35
03 Room Air	0.000	11:36
04 Std. Gas	0.083	11:36
05 Room Air	0.000	11:36
06 Std. Gas	0.084	11:37
07 Room Air	0.000	11:37

Lot No = 20016080A2
Cyl No = 48
Exp Date = 09/05/2018
County = 08 Oper No. = 888888


Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks: Calibration Check
0.080 AC

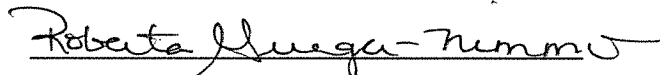
Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-006689
Location = TOXL 8164.14.00 09/16
09/20/2017 11:38

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	11:38
02 Std. Gas	0.083	11:38
03 Room Air	0.000	11:39
04 Std. Gas	0.083	11:39
05 Room Air	0.000	11:40
06 Std. Gas	0.084	11:40
07 Room Air	0.000	11:41

Lot No = 20016080A2
Cyl No = 48
Exp Date = 09/05/2018
County = 08 Oper No. = 888888


Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks: Calibration Check
0.080AC

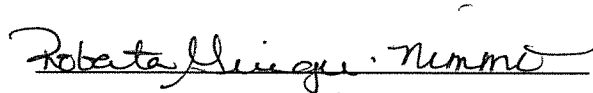
Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-006689
Location = TOXL 8164.14.00 09/16
09/20/2017 11:41

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	11:42
02 Std. Gas	0.083	11:42
03 Room Air	0.000	11:42
04 Std. Gas	0.083	11:43
05 Room Air	0.000	11:43
06 Std. Gas	0.083	11:44
07 Room Air	0.000	11:44

Lot No = 20016080A2
Cyl No = 48
Exp Date = 09/05/2018
County = 08 Oper No. = 888888


Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks: Calibration Check
0.08DAC