

**BREATH ALCOHOL EQUIPMENT
REPAIR AND MAINTENANCE**

Instrument: 8000 Serial Number: 80-005937 Location: TOKL

1. Instrument repairs/maintenance performed:

Instrument was returned by Kidder Co SO as they thought the barcode scanner wasn't working. Further investigation concluded the operator was expired so the barcode scanner was functioning properly. However, I noticed the internal printer was not printing. Then I replaced the internal printer and ran the following calibration adjustments and tests.

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 850 PSI display reading ⁸³⁵~~873~~ BW

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

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

Sim SN: DR5186 Lot #: 17010 AC: 0.250 AC

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: DR5144 Lot #: 1CS5 AC: 0.10AC + 0.05% ACE
- 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. D1316080A2 Cylinder No. 36 Expiration Date 5 Feb 18

Test 1 <u>0.081</u>	Test 1 <u>0.079</u>	Test 1 <u>0.080</u>
Test 2 <u>0.079</u>	Test 2 <u>0.078</u>	Test 2 <u>0.079</u>
Test 3 <u>0.079</u>	Test 3 <u>0.079</u>	Test 3 <u>0.079</u>

Average 0.079

Roberta Mueggen-Tummo
Field Inspector's Signature

Charles E. Eds
Reviewed by

20 NOV 17
Date

20 Nov 17
Date

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-005937
Location = TOXL 8164.14.00 09/16
11/17/2017 13:18

Flow Rate Calibration*****

1: Rate (Liters/min) = 5

 SQRT(Diff) = 7.070

2: Rate (Liters/min) = 15

 SQRT(Diff) = 12.488

3: Rate (Liters/min) = 30

 SQRT(Diff) = 22.977

Dependent Data Scale Factor = 100000 L/min

Independent Data Scale Factor = 256

Rounded Slope = 606

Rounded Intercept = -534563

Correlation = 0.99775

Roberta Huggins-Nimmo
20 NOV 17

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005937
 11/17/2017 13:56:59

Auto Calibration

pg 1 of 2

<<<<<			3um	>>>>>			<<<<<			9um	>>>>>		
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1 Simulator													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)			% Abs	(% Abs Ref)				
Sample #1	0.1330	(-0.0140)		0.2080	(-0.0050)			0.000 AC				DR7111	
Sample #2	0.1170	(0.0210)		0.1700	(0.0140)			Multi Q H ₂ O					
Sample #3	0.1070	(0.0460)		0.1930	(0.0170)			Exp. NA					
Sample #4	0.0910	(0.0620)		0.1690	(0.0220)								
Avg % Abs	0.1050	(0.0430)		0.1773	(0.0177)								
STD DEV	0.0131	(0.0207)		0.0136	(0.0040)								
REL STD DEV	12.490	(48.056)		7.656	(22.876)								
Solution = 0.041 g/210L or 0.1952 mg/l, Samples = 4, Discarded = 1 Simulator													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)			% Abs	(% Abs Ref)				
Sample #1	0.7600	(0.0050)		1.5220	(0.0180)			0.041 AC				DR7089	
Sample #2	0.7600	(0.0230)		1.4700	(0.0720)			lot: 2016010					
Sample #3	0.7690	(0.0260)		1.5000	(0.0660)			Exp.: 26 Jan 18					
Sample #4	0.7530	(0.0300)		1.5110	(0.0660)								
Avg % Abs	0.7607	(0.0263)		1.4937	(0.0680)								
STD DEV	0.0080	(0.0035)		0.0212	(0.0035)								
REL STD DEV	1.054	(13.336)		1.421	(5.094)								
Solution = 0.081 g/210L or 0.3857 mg/l, Samples = 4, Discarded = 1 Simulator													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)			% Abs	(% Abs Ref)				
Sample #1	1.4310	(0.0210)		2.8770	(0.0090)			0.081 AC				DR3841	
Sample #2	1.4290	(0.0270)		2.8490	(0.0400)			lot: 201604F					
Sample #3	1.4600	(0.0220)		2.8660	(0.0330)			Exp.: 19 Apr 18					
Sample #4	1.4400	(0.0420)		2.8970	(0.0370)								
Avg % Abs	1.4430	(0.0303)		2.8707	(0.0367)								
STD DEV	0.0157	(0.0104)		0.0243	(0.0035)								
REL STD DEV	1.089	(34.313)		0.848	(9.578)								
Solution = 0.102 g/210L or 0.4857 mg/l, Samples = 4, Discarded = 1 Simulator													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)			% Abs	(% Abs Ref)				
Sample #1	1.7360	(-0.0070)		3.4790	(-0.0110)			0.102 AC				DR5131	
Sample #2	1.7380	(0.0180)		3.4730	(0.0080)			lot: 201603M					
Sample #3	1.7330	(0.0260)		3.4910	(-0.0100)			Exp.: 22 Mar 18					
Sample #4	1.7720	(0.0030)		3.4880	(0.0000)								
Avg % Abs	1.7477	(0.0157)		3.4840	(-0.0007)								
STD DEV	0.0212	(0.0117)		0.0096	(0.0090)								
REL STD DEV	1.214	(74.529)		0.277	(1352.775)								
Solution = 0.303 g/210L or 1.4429 mg/l, Samples = 4, Discarded = 1 Simulator													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)			% Abs	(% Abs Ref)				
Sample #1	5.0940	(0.0000)		9.7670	(-0.0130)			0.303 AC				DR3375	
Sample #2	5.0780	(0.0240)		9.7220	(0.0270)			lot: 201603A					
Sample #3	5.0810	(0.0260)		9.7400	(0.0310)			Exp.: 01 Mar 18					
Sample #4	5.0980	(0.0430)		9.7450	(0.0290)								
Avg % Abs	5.0857	(0.0310)		9.7357	(0.0290)								
STD DEV	0.0108	(0.0104)		0.0121	(0.0020)								
REL STD DEV	0.212	(33.678)		0.124	(6.897)								

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005937
 11/17/2017 13:56:59

Auto Calibration

pg 2 of 2

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

 Zero Order Coef -305.34
 First Order Coef 2943.36
 Second Order Coef -9.06

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

 -237.72
 1423.57
 8.50

Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	0.000	-0.0001
0.041	0.040	0.0005
0.081	0.082	-0.0014
0.102	0.101	0.0010
0.303	0.303	-0.0000

Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	0.000	-0.0003
0.041	0.040	0.0009
0.081	0.082	-0.0013
0.102	0.101	0.0007
0.303	0.303	0.0000

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

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

Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1

Sample	3um	9um	Notes
Sample #1	4607.00	4492.00	Gas cyl
Sample #2	4521.00	4481.00	0.100AC
Sample #3	4557.00	4503.00	lot: 32316100A1
Sample #4	4591.00	4551.00	Cyl: 003
Avg	4556.3335	4511.6665	Exp: 5 Jan 19
STD DEV	35.0048	35.7957	
REL STD DEV	0.768	0.793	
H2O adjust (mg/l*10k)	205	250	

Atmospheric Pressure = 946

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

Roberto Sanchez
 20 NOV 17

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-005937
Location = TOXL 8164.14.00 09/16
11/17/2017 14:45

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:46
02 Std. Sol.	0.020	14:47
03 Room Air	0.000	14:47
04 Std. Sol.	0.021	14:48
05 Room Air	0.000	14:48
06 Std. Sol.	0.020	14:49
07 Room Air	0.000	14:50

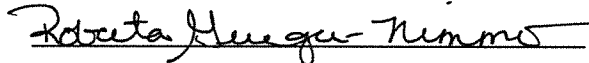
08 Sim Temp = 34.0°C

Simul Ser No = DR5188

Std Sol No = 16200

County = 08

Oper No. = 888888



Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks: Wet bath
low AC
0.020 AC

Form 106-18000

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-005937
Location = TOXL 8164.14.00 09/16
11/17/2017 14:51

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:52
02 Std. Sol.	0.259	14:52
03 Room Air	0.000	14:53
04 Std. Sol.	0.260	14:54
05 Room Air	0.000	14:54
06 Std. Sol.	0.259	14:55
07 Room Air	0.000	14:56

08 Sim Temp = 34.0°C

Simul Ser No = DR5186
Std Sol No = 17010
County = 08 Oper No. = 888888

Roberta Grieger-Nimmo

Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks: *Wet bath
linearity test
0.250AC*

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-005937
Location = TOXL 8164.14.00 09/16
11/17/2017 15:12

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

12 char/line
abcdefghijkl
ABCDEFGHIJKL

16 char per line
abcdefghijklmnop
ABCDEFGHIJKLMNOP

21 chars per line
abcdefghijklmnopqrstu
ABCDEFGHIJKLMNOPQRSTU

24 characters per line
abcdefghijklmnopqrstu
ABCDEFGHIJKLMNOPQRSTUUVWX

32 characters per line
abcdefghijklmnopqrstu
ABCDEFGHIJKLMNOPQRSTUVWXYZ123456

42 characters per line
abcdefghijklmnopqrstu
ABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890ABCDEF

Current Instrument Setup

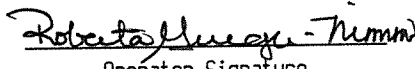
Data Entry Mode: Enabled
Start Test Sequence: DABACABA
Display Prelim Rslt? Yes
Display Third Digit? Yes
Inhib Printer(Y/N)? No
Display Volume? No
Disable On Menfull? Yes
of Print Copies? 1
Select Std (D/W/I)? Dry
Standard Value? 0.080
Standard Lot #? 01316080A2
Standard Cyl #? 36
Standard Expiration? 02/05/2018
Oper No? 888888

Flow Cal. Date: 11/17/2017
Slope: 606
Intercept: -534563

IR Calibration Date: 11/17/2017

	3um	9um
0th Coef(*100):	-30534	-23772
1st Coef(*100):	294336	142357
2nd Coef(*100):	-906	850
H2O adj(ng/l*10K):	205	250

***** Test End *****


Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks:

Print Test

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 80-005937
Location = TOXL 8164.14.00 09/16
11/17/2017 15:31

Test	AC	Time
01 Room Air	0.000	15:32
02 *Subject Test	INT*	15:33
03 Room Air	0.000	15:34

*Invalid Test
Interferent Detected

Sub Name = DISCOVER, THE SPIRIT
Sub DOB = 01/01/1982
Sub Sex = Female Weight = 150
Test = OTH Cit = INTERFERENT
Dr. Lic. = ND/D15821456
Lot No = 01316080A2
Cyl No = 36
Expiration Date = 02/05/2018
County = 08 Oper No. = 888888

Roberta Grieger-Nimmo
Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks:

Interferent Check

Form 106-18000

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

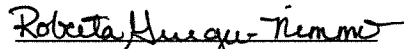
CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-005937
Location = TOXL 8164.14.00 09/16
11/17/2017 15:23

Test	AC	Time
01 Diagnostic	OK	15:24
02 Room Air	0.000	15:25
03 Subject Test 1	0.000	15:25
04 Room Air	0.000	15:28
05 Std. Gas	RFI*	15:28
06 Room Air	0.000	15:28

*Invalid Test
Inhibited - RFI

Sub Name = DISCOVER, THE SPIRIT
Sub DOB = 01/01/1982
Sub Sex = Female Weight = 150
Test = OTH Cit = RFI CHECK
Dr. Lic. = ND/D15821456
Lot No = 01316080A2
Cyl No = 36
Expiration Date = 02/05/2018
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

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 80-005937
Location = TOXL 8164.14.00 09/16
11/17/2017 15:13

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:13
02 Std. Gas	0.081	15:14
03 Room Air	0.000	15:14
04 Std. Gas	0.079	15:15
05 Room Air	0.000	15:15
06 Std. Gas	0.079	15:16
07 Room Air	0.000	15:16

Lot No = 01316080A2
Cyl No = 36
Exp Date = 02/05/2018
County = 08 Oper No. = 888888

Roberta Grieger-Nimmo
Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks:

Calibration Check

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 80-005937
Location = TOXL 8164.14.00 09/16
11/17/2017 15:16

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:17
02 Std. Gas	0.079	15:17
03 Room Air	0.000	15:18
04 Std. Gas	0.078	15:18
05 Room Air	0.000	15:19
06 Std. Gas	0.079	15:19
07 Room Air	0.000	15:19

Lot No = 01316080A2
Cyl No = 36
Exp Date = 02/05/2018
County = 08 Oper No. = 888888

Roberta Grieger-Nimmo
Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks:

Calibration Check

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 80-005937
Location = TOXL 8164.14.00 09/16
11/17/2017 15:20

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:20
02 Std. Gas	0.080	15:20
03 Room Air	0.000	15:21
04 Std. Gas	0.079	15:21
05 Room Air	0.000	15:22
06 Std. Gas	0.079	15:22
07 Room Air	0.000	15:23

Lot No = 01316080A2
Cyl No = 36
Exp Date = 02/05/2018
County = 08 Oper No. = 888888

Roberta Grieger-Nimmo
Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks:

Calibration Check

Form 106-I8000