

**INTOXILYZER 8000
REPAIR AND MAINTENANCE**

Serial No.: 80-004188

Location: TOXL

Check When Done

1. Is a three-pronged grounded outlet used? ✓
2. Is the warm-up time less than 20 minutes? ✓
3. Is the breath tube heated? ✓
4. Is the diagnostic check complete? ✓
5. Is the time, date, and year correct (re-set if necessary)? ✓
6. Print test. (Attach test record.) ✓
7. Calibration Check. Use Ethanol Breath Standard (EBS). Do three sets in ACA mode. (Attach test records.)

Lot No. 659358 Cylinder No. 53 Expir. Date 09/03/2011

Test 1 0.080 Test 4 0.079 Test 7 0.080

Test 2 0.079 Test 5 0.079 Test 8 0.080

Test 3 0.080 Test 6 0.079 Test 9 0.080

Average 0.080

8. Low AC. Use < 0.03 AC in ACA mode. (Attach test record.) ✓
9. Linearity Test. Use ≥ 0.25 AC in ACA mode. (Attach test record.) ✓
10. Interferent check. Use 0.05% acetone plus 0.10 AC ethanol in ABA mode. (Attach test record.) ✓
11. RFI check. Run CMS mode. Key radio on first room air. (Attach test record.) ✓

08-09

G:\Crime Lab\Manuals\ISO SOP\Toxicology Section\Breath Alcohol Program\Instrument Certification and Maintenance Unit\Intoxilyzer 8000\Forms-Worksheets\Form BrF-004-8 Intoxilyzer 8000 Repair and Maintenance 08-09.doc

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Electrical Repairs:

1. Was the calibration adjusted/performed? (Attach test record.) ~~NO~~^{DK} YES
2. Was the light source changed? NO
3. Was the sample chamber cleaned? NO

Other Maintenance/Repairs:

1. Was the printer cleaned/repaired? NO
2. Was the solenoid cleaned? NO
3. Was new tubing installed? NO
4. Were additional parts replaced/changed/repaired? YES

5. Remarks/Maintenance record: Recalibrated the gas tank sensor.
Recalibrated the optical bench

08 Oct 2010
Date

08 Oct 2010
Date

Deb Kashur
Field Inspector's Signature

Mary Ann
Reviewed by

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004188
Location = TOXL 8164.13.00 06/09
10/04/2010 10:29

***** 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 #? 659358
Standard Cyl #? 53
Standard Expiration? 09/03/2011
Oper No? 777777

Flow Cal. Date: 06/04/2009
Slope 689
Intercept -630047

IR Calibration Date: 10/04/2010
 3um 9um

0th Coef(*100): -23452 -23481
1st Coef(*100): 286263 139350
2nd Coef(*100): 1011 889
H2O adj(mg/l*10k): 603 615

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

Deb Kashur

Operator Signature
DEB KASHUR

Remarks:

Print test

Form 106-I8000

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004188
Location = TOXL 8164.13.00 06/09
10/04/2010 10:30

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	10:31
02 Std. Gas	0.080	10:31
03 Room Air	0.000	10:32
04 Std. Gas	0.079	10:32
05 Room Air	0.000	10:33
06 Std. Gas	0.080	10:33
07 Room Air	0.000	10:33

Lot No = 659358
Cyl No = 53
Exp Date = 09/03/2011
County = 08 Oper No. = 777777

Deb Kashur

Operator Signature
DEB KASHUR

Remarks:

Calibration check 0.080 AC

Form 106-I8000

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004188
Location = TOXL 8164.13.00 06/09
10/04/2010 11:10

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	11:11
02 Std. Gas	0.079	11:11
03 Room Air	0.000	11:12
04 Std. Gas	0.079	11:12
05 Room Air	0.000	11:13
06 Std. Gas	0.079	11:13
07 Room Air	0.000	11:13

Lot No = 659358
Cyl No = 53
Exp Date = 09/03/2011
County = 08 Oper No. = 777777

Deb Kashur

Operator Signature
DEB KASHUR

Remarks:

Calibration check 0.080 AC

Form 106-I8000

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004188
Location = TOXL 8164.13.00 06/09
10/04/2010 11:18

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	11:18
02 Std. Gas	0.080	11:18
03 Room Air	0.000	11:19
04 Std. Gas	0.080	11:19
05 Room Air	0.000	11:20
06 Std. Gas	0.080	11:20
07 Room Air	0.000	11:21

Lot No = 659358
Cyl No = 53
Exp Date = 09/03/2011
County = 08 Oper No. = 777777

Deb Kasher
Operator Signature
DEB KASHUR

Remarks:

Calibration check 0.080AC

Form 106-I8000

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004188
Location = TOXL 8164.13.00 06/09
10/08/2010 12:44

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	12:44
02 Std. Sol.	0.019	12:45
03 Room Air	0.000	12:45
04 Std. Sol.	0.020	12:46
05 Room Air	0.000	12:47
06 Std. Sol.	0.020	12:47
07 Room Air	0.000	12:48

08 Sim Temp = 34.0°C

Simul Ser No = 00000

Std Sol No = 00000

County = 08

Oper No. = 777777

Deb Kashur

Operator Signature
DEB KASHUR

Remarks:

LOW AC 0.021AC

Form 106-18000

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004188
Location = TOXL 8164.13.00 06/09
10/08/2010 12:48

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	12:49
02 Std. Sol.	0.293	12:50
03 Room Air	0.000	12:50
04 Std. Sol.	0.294	12:51
05 Room Air	0.000	12:52
06 Std. Sol.	0.295	12:52
07 Room Air	0.000	12:53

08 Sim Temp = 34.0°C

Simul Ser No = 00000

Std Sol No = 00000

County = 08

Oper No. = 777777

Deb Kashur

Operator Signature
DEB KASHUR

Remarks:

Linearity test 0.294 AC

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004188
Location = TOXL 8164.13.00 06/09
10/08/2010 12:54

Test	AC	Time
01 Room Air	0.000	12:55
02 *Subject Test	INT*	12:55
03 Room Air	0.000	12:56

*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 = 659358
Cyl No = 53
Expiration Date = 09/03/2011
County = 08 Oper No. = 777777

Deb Kasher

Operator Signature
DEB KASHUR

Remarks:

Interferent check

*0.100 AC
+ acetone*

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

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004188
Location = TOXL 8164.13.00 06/09
10/08/2010 12:56

Test	AC	Time
01 Diagnostic	OK	12:57
02 Room Air	RFI*	12:57
03 Room Air	0.000	12:58

*Invalid Test
Inhibited - RFI

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 = 659358
Cyl No = 53
Expiration Date = 09/03/2011
County = 08 Oper No. = 777777

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

Deb Kashur

Operator Signature
DEB KASHUR

Remarks:

RFI test

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TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004188
 10/04/2010 09:39:38

Auto Calibration

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Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1						
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)	
Sample #1	0.1180	(-0.0160)		0.2010	(-0.0160)	
Sample #2	0.1110	(0.0410)		0.1800	(0.0000)	
Sample #3	0.0660	(0.0940)		0.1780	(0.0230)	
Sample #4	0.0710	(0.1240)		0.1850	(0.0390)	
Avg % Abs	0.0827	(0.0863)		0.1810	(0.0207)	
STD DEV	0.0247	(0.0420)		0.0036	(0.0196)	
REL STD DEV	29.836	(48.681)		1.992	(94.860)	

Solution = 0.021 g/210L or 0.1000 mg/l, Samples = 4, Discarded = 1						
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)	
Sample #1	0.4050	(0.0070)		0.8610	(0.0060)	
Sample #2	0.4580	(0.0100)		0.8930	(0.0070)	
Sample #3	0.4490	(0.0310)		0.8780	(0.0220)	
Sample #4	0.4110	(0.0650)		0.8810	(0.0330)	
Avg % Abs	0.4393	(0.0353)		0.8840	(0.0207)	
STD DEV	0.0249	(0.0278)		0.0079	(0.0131)	
REL STD DEV	5.678	(78.552)		0.898	(63.151)	

Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1						
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)	
Sample #1	0.7580	(-0.0070)		1.4920	(0.0080)	
Sample #2	0.7540	(0.0000)		1.5040	(0.0070)	
Sample #3	0.7130	(0.0350)		1.4920	(0.0270)	
Sample #4	0.7310	(0.0310)		1.4900	(0.0310)	
Avg % Abs	0.7327	(0.0220)		1.4953	(0.0217)	
STD DEV	0.0206	(0.0192)		0.0076	(0.0129)	
REL STD DEV	2.805	(87.078)		0.506	(59.346)	

Solution = 0.120 g/210L or 0.5714 mg/l, Samples = 4, Discarded = 1						
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)	
Sample #1	2.0940	(-0.0210)		4.1880	(-0.0030)	
Sample #2	2.0910	(-0.0020)		4.1940	(0.0070)	
Sample #3	2.0550	(0.0260)		4.1490	(0.0380)	
Sample #4	2.0540	(0.0350)		4.1670	(0.0570)	
Avg % Abs	2.0667	(0.0197)		4.1700	(0.0340)	
STD DEV	0.0211	(0.0193)		0.0226	(0.0252)	
REL STD DEV	1.020	(98.115)		0.543	(74.232)	

Solution = 0.294 g/210L or 1.4000 mg/l, Samples = 4, Discarded = 1						
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)	
Sample #1	4.8600	(-0.0160)		9.5370	(-0.0120)	
Sample #2	4.8880	(0.0070)		9.5800	(0.0120)	
Sample #3	4.8520	(0.0510)		9.6140	(0.0270)	
Sample #4	4.9230	(0.0360)		9.6730	(0.0150)	
Avg % Abs	4.8877	(0.0313)		9.6223	(0.0180)	
STD DEV	0.0355	(0.0224)		0.0471	(0.0079)	
REL STD DEV	0.726	(71.388)		0.489	(44.096)	

*Calibration
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 Deb Kashur
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TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004188
 10/04/2010 09:39:38

Auto Calibration

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<<<<< 3um >>>>>			<<<<< 9um >>>>>		
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Zero Order Coef	-234.52		Zero Order Coef	-234.81	
First Order Coef	2862.63		First Order Coef	1393.50	
Second Order Coef	10.11		Second Order Coef	8.89	
-----			-----		
Act	Fit	Residual	Act	Fit	Residual
(g/210L)	(g/210L)	(g/210L)	(g/210L)	(g/210L)	(g/210L)
0.000	0.000	-0.0000	0.000	0.000	-0.0004
0.021	0.022	-0.0005	0.021	0.021	-0.0001
0.040	0.039	0.0008	0.040	0.039	0.0008
0.120	0.120	-0.0002	0.120	0.120	-0.0003
0.294	0.294	0.0000	0.294	0.294	0.0001
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<<<<< 3um >>>>>		<<<<< 9um >>>>>	
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Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1			
Sample			
Sample #1	3194.00	3201.00	
Sample #2	3207.00	3182.00	
Sample #3	3205.00	3203.00	
Sample #4	3207.00	3197.00	
Avg	3206.3333	3194.0000	
STD DEV	1.1547	10.8167	
REL STD DEV	0.036	0.339	
H2O adjust (mg/l*10k)	603	615	

Atmospheric Pressure = 1016

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

*Calibration
 04 Oct 10
 Deb Keshur
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JK