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By Tracy Crews at 7:34 am, Aug 20, 2021



MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES  
STATE PUBLIC HEALTH LABORATORY  
**ALCO-SENSOR IV WITH PRINTER MAINTENANCE REPORT**

REPORT #7

Complete this report in duplicate at the time of the regular monthly preventative maintenance check, and whenever instrument is repaired. Send copy to Department of Health and Senior Services; retain original in department file.

ALCO SENSOR IV SN 100292	NAME OF AGENCY Missouri State Highway Patrol	DATE OF INSPECTION 08/19/2021
LOCATION OF INSTRUMENT (STREET AND CITY) 504 SE Blue Parkway, Lee's Summit, Missouri 64063		TIME OF INSPECTION 17:29

**CHECKLIST:** Place a mark in the box by each item if found to be satisfactory or if operating within established limits. (Write in observed values where determined.) Unmarked items must be corrected before using instrument.

- DIGITAL READOUT (ALL ELEMENTS OPERATIONAL)
- TEMPERATURE OF ALCO SENSOR (10°C - 40°C)
- PRINTER WORKING PROPERLY
- TIME AND DATE DISPLAYING PROPERLY

**BREATH ALCOHOL ACCURACY STANDARDS**

- SIMULATOR SOLUTION  COMPRESSED ETHANOL-GAS MIXTURE
- STANDARD SUPPLIER RepCo Marketing Co LOT # 19002 EXP. DATE 10/16/2021
- SIMULATOR TEMPERATURE (34°C ± 0.2°C) 34.00 SIM. SN MP2206 SIM. NIST EXP DATE 01/26/2022

- CALIBRATION CHECK - (ONLY ONE STANDARD IS TO BE USED PER MAINTENANCE REPORT)  
Run three tests using a standard solution. All three tests must be within ±5% of the standard value and must have a spread of .005 or less. Check the box corresponding to the standard solution being used. (PRINTOUT ATTACHED)
  - 0.100% STANDARD - MUST READ BETWEEN 0.095% and 0.105% INCLUSIVE
  - 0.080% STANDARD - MUST READ BETWEEN 0.076% and 0.084% INCLUSIVE
  - 0.040% STANDARD - MUST READ BETWEEN 0.038% and 0.042% INCLUSIVE

TEST 1 ← .101	TEST 2 ← .100	TEST 3 ← .099
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- RFI DETECTOR OPERATING

INDICATE THE NUMBER OF BREATH TESTS IN THE FOLLOWING RANGES SINCE THE LAST MAINTENANCE REPORT: (DO NOT INCLUDE SELF-ADMINISTERED TESTS)

REFUSALS 0	(0-.04) 0	(.05-.09) 3	(.10-.14) 0	(.15-.19) 0	(OVER .19) 2
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List any new parts and describe any alteration or modification that was made to restore the instrument to operate satisfactorily and within established limits (use other side if necessary).

*Calibration performed*

*Tone adjusted one minute backward*

*Memory cleared*

**INSPECTING OFFICER**

SIGNATURE <i>Cpl. A.A. Engelhart #247</i>	PRINT NAME Cpl. A.A. Engelhart #247
TYPE II PERMIT NUMBER/EXPIRATION DATE 200223 08/13/2022	TELEPHONE NUMBER ( 816 ) 622-0800

Return completed report to the: Breath Alcohol Program, MO Department of Health and Senior Services, Southeast District Office by mail, fax, or email.

AS IV Serial no: 100292  
Version no: 532B

TEST RECORD 00976

Temp	Date	Time	s/	210L

Air Blank:  
08/19/21 19:36 .000  
Calibration Check:  
25 08/19/21 19:36 .100

Subject Name

Calibration  
Subject I.D.

Operator Name, I.D.

Cpl. A.A. Engelhart 200223  
Location

Troop A

AS IV Serial no: 100292  
Version no: 532B

TEST RECORD 00977

Temp	Date	Time	s/	210L

Air Blank:  
08/19/21 19:41 .000  
Calibration Check:  
26 08/19/21 19:41 .101

Subject Name

Accuracy Check  
Subject I.D.

Operator Name, I.D.

Cpl. A.A. Engelhart 200223  
Location

Troop A

AS IV Serial no: 100292  
Version no: 532B

TEST RECORD 00978

Temp	Date	Time	s/	210L

Air Blank:  
08/19/21 19:45 .000  
Calibration Check:  
27 08/19/21 19:45 .101

Subject Name

Maint Test 1  
Subject I.D.

Operator Name, I.D.

Cpl. A.A. Engelhart 200223  
Location

Troop A

AS IV Serial no: 100292  
Version no: 532B

TEST RECORD 00979

Temp	Date	Time	s/	210L

Air Blank:  
08/19/21 19:48 .000  
Calibration Check:  
27 08/19/21 19:48 .100

Subject Name

Maint Test 2  
Subject I.D.

Operator Name, I.D.

Cpl. A.A. Engelhart 200223  
Location

Troop A

AS IV Serial no: 100292  
Version no: 532B

TEST RECORD 00980

Temp	Date	Time	s/	210L

Air Blank:  
08/19/21 19:52 .000  
Calibration Check:  
28 08/19/21 19:52 .099

Subject Name

Maint Test 3  
Subject I.D.

Operator Name, I.D.

Cpl. A.A. Engelhart 200223  
Location

Troop A

AS IV Serial no: 100292  
Version no: 532B

TEST RECORD 00981

Temp	Date	Time	s/	210L

VOID: RFI  
12 08/19/21 19:53

Subject Name

RFI Test  
Subject I.D.

Operator Name, I.D.

Cpl. A.A. Engelhart 200223  
Location

Troop A

## CERTIFICATE OF ANALYSIS

**MANUFACTURER AND SUPPLIER: RepCo Marketing Co.**  
**LOT NUMBER: 19002**  
**EXPIRATION DATE: October 16, 2021 at 11:59 p.m.**

RepCo Marketing Co. certifies the following:


RepCo Marketing Co. prepared, tested and supplied Lot Number 19002 of Alcohol Certified Solution for simulators. This solution was manufactured and tested by RepCo Marketing Co., with confirmation by ISO 17025 and ISO 17034 accredited institution Alcohol Countermeasure Systems, using NIST standards. Random samples were analyzed by Alcohol Countermeasure Systems utilizing a gas chromatograph and found to contain .1231 gms/dl +/- .003 gms/dl wt/vol ethanol (95% Confidence).

The alcohol and distilled water used in the solution were found to be free of any interfering substance.

This solution will produce a vapor alcohol value of .100 +/- 3% gms/210L breath when heated to 34 Degrees Celsius +/- 0.2 Degrees Celsius in a simulator (95% Confidence).

The date of manufacture for this lot number is October 17, 2019 The expiration date for this lot number is October 16, 2021 at 11:59 p.m.

This document is a true representation of the original Certificate of Analysis.

  
Alma Palmer, Operations Manager  
RepCo Marketing Co.



STATE OF MISSOURI  
 DEPARTMENT OF HEALTH AND SENIOR SERVICES  
 BREATH ALCOHOL PROGRAM



**PERMIT  
 TYPE II**

**AARON A ENGELHART**

is hereby authorized to instruct and supervise operators, train instructors, inspect, calibrate, perform field service and repairs, and operate the following breath analyzer(s):

**ALCO-SENSOR IV WITH PRINTER, INTOX DMT**

for the determination of the alcoholic content of blood from a sample of expired air. Permit issued under the provisions of sections 577.020 through 577.041, RSMo and 306.111 through 306.119 RSMo.

DATE 8/13/2020

NUMBER 200223

EXPIRES 8/13/2022

MO 580-0771 (6-10)

DIRECTOR OF STATE PUBLIC HEALTH LABORATORY

DIRECTOR OF DEPARTMENT OF HEALTH AND SENIOR SERVICES

LAB-4 (R6-10)

STATE OF MISSOURI  
 DEPARTMENT OF HEALTH AND SENIOR SERVICES  
 BREATH ALCOHOL PROGRAM

**INSTRUMENT OPERATOR CARD**

*The named cardholder is authorized to operate an evidential breath alcohol instrument for the determination of the alcoholic content in breath form of expired air in Missouri.*

Operator ENGELHART, AARON  
 Permit No 200223  
 Date Issued 8/13/2020 Date Expires 8/13/2022