



WES MOORE
GOVERNOR

ARUNA MILLER
LT. GOVERNOR

STATE OF MARYLAND
MARYLAND STATE POLICE
1201 REISTERSTOWN ROAD
PIKESVILLE, MARYLAND 21208-3899
410-486-3101
TOLL FREE: 1-800-525-5555
TDD: 410-486-0677



COLONEL
ROLAND L. BUTLER, JR.
ACTING SUPERINTENDENT

Forensic Sciences Division - Pikesville

221 Milford Mill Road

Pikesville, Maryland 21208

LABORATORY REPORT

Phone: 443-357-1300

TO: MSP Homicide

DATE: March 8, 2023

ATTENTION: Sgt. Martin

Requestor's Case #: 22MSP022385

Laboratory File #: 2022-FSD21-04960

Victim: D/Sgt. Phil Martin

Suspect(s): Joe Louis Esquivel

This examination has been made with the understanding that the evidence is connected with an official investigation of a criminal matter and that the Laboratory Report will be used for official purposes only related to the investigation or a subsequent criminal prosecution. This report contains the conclusions, opinions and interpretations of the examiner whose signature appears on the report. The reported results relate only to the items/exhibits tested or sampled.

Dates of Analysis: January 10, 2023 – March 2, 2023

The evidence was received into the Firearms/Toolmarks Unit of the Forensic Sciences Division where it was examined and marked for identification as listed below:

Item 4 – .40 S&W caliber Glock semiautomatic pistol, model 22 Gen4, serial number TLR249 with attached flashlight (2022-0313-V.1)

- One (1) magazine that fits and functions in Item 4 (2022-0313-V.1.1)
- Ten (10) .40 S&W caliber cartridges bearing the Federal headstamp (2022-0313-V.1.2)

Item 5 – 9mmx19 caliber Heckler & Koch semiautomatic pistol, model VP9, serial number 224-055152 (2022-0313-CS.1)

- One (1) magazine that fits and functions in Item 5 (2022-0313-CS.1.2)
- One (1) 9mm Luger caliber cartridge bearing the Blazer headstamp (2022-0313-CS.1.1)
- Fifteen (15) 9mm Luger caliber cartridges bearing the Blazer headstamp (2022-0313-CS.1.3)

STATE OF MARYLAND
MARYLAND STATE POLICE

Requestor's Case #: 22MSP022385

Laboratory File #: 2022-FSD21-04960

-
- Item 6 – One (1) magazine that fits and functions in Item 5 (2022-0314-SV.10)
Four (4) 9mm Luger caliber cartridges bearing the Winchester headstamp (2022-0314-SV.10.1)
 - Item 7 – One (1) magazine that fits and functions in Item 5 (2022-0314-SV.11)
 - Item 8 – One (1) fired .40 S&W caliber cartridge case bearing the Federal headstamp (2022-0313-CS.2)
 - Item 9 – One (1) fired .40 S&W caliber cartridge case bearing the Federal headstamp (2022-0313-CS.3)
 - Item 10 – One (1) fired .40 S&W caliber cartridge case bearing the Federal headstamp (2022-0313-CS.4)
 - Item 11 – One (1) fired .40 S&W caliber cartridge case bearing the Federal headstamp (2022-0313-VV.1)
 - Item 12 – One (1) fired .40 S&W caliber cartridge case bearing the Federal headstamp (2022-0313-VV.2)
 - Item 13 – One (1) fired 9mm Luger caliber cartridge case bearing the Sellier & Bellot headstamp (2022-0314-SV.3)
 - Item 14 – One (1) fired 9mm Luger caliber cartridge case bearing the Sellier & Bellot headstamp (2022-0314-SV.4)
 - Item 15 – One (1) fired 9mm Luger caliber cartridge case bearing the Sellier & Bellot headstamp (2022-0314-SV.7)
 - Item 16 – One (1) fired 9mm Luger caliber cartridge case bearing the Sellier & Bellot headstamp (2022-0314-SV.12)
 - Item 17 – One (1) fired 9mm Luger caliber cartridge case bearing the Sellier & Bellot headstamp (2022-0314-SV.13)
 - Item 18 – One (1) fired 9mm Luger caliber cartridge case bearing the Sellier & Bellot headstamp (2022-0314-SV.15)
 - Item 19 – One (1) fired 9mm Luger caliber cartridge case bearing the Sellier & Bellot headstamp (2022-0314-SV.17)
 - Item 20 – One (1) fired 9mm Luger caliber cartridge case bearing the Sellier & Bellot headstamp (2022-0314-SV.18)
 - Item 21 – One (1) fired 9mm Luger caliber cartridge case bearing the Sellier & Bellot headstamp (2022-0314-SV.19)
 - Item 22 – One (1) fired 9mm Luger caliber cartridge case bearing the Sellier & Bellot headstamp (2022-0314-SV.24)
 - Item 23 – One (1) fired .22 Long/Long Rifle caliber cartridge case bearing the Winchester headstamp (2022-0314-SV.16)
 - Item 24 – One (1) fired bullet jacket fragment (2022-0313-CS.8)
 - Item 25 – One (1) fired bullet jacket fragment (2022-0313-VV.3)
 - Item 26 – One (1) fired bullet (2022-0313-VV.4)
 - Item 27 – One (1) fired bullet (2022-0314-SV.5)
 - Item 28 – One (1) fired bullet jacket fragment (2022-0314-SV.5)
 - Item 29 – One (1) fired bullet (2022-0314-SV.1)
 - Item 30 – One (1) fired bullet jacket fragment (2022-0314-SV.2)
 - Item 31 – One (1) fired bullet jacket fragment (2022-0314-SV.20)
 - Item 32 – One (1) fired bullet jacket fragment (2022-0314-SV.20)
 - Item 33 – One (1) fired bullet jacket fragment (2022-0314-SV.20)

STATE OF MARYLAND
MARYLAND STATE POLICE

Requestor's Case #: 22MSP022385

Laboratory File #: 2022-FSD21-04960

-
- Item 34 – One (1) fired bullet jacket fragment (2022-0314-SV.20)
 - Item 35 – One (1) lead-like fragment (2022-0314-SV.21)
 - Item 36 – One (1) fired bullet (2022-0314-SV.22)
 - Item 37 – One (1) fired bullet fragment (2022-0314-SV.23)
 - Item 38 – Three (3) .22 Long Rifle caliber cartridges bearing the Federal headstamp (2022-0314-SV.24)
 - Item 39 – One (1) 9x19mm caliber cartridge bearing the Sellier & Bellot headstamp (2022-0314-SV.8)
 - Item 40 – One (1) 9x19mm caliber cartridge bearing the Sellier & Bellot headstamp (2022-0314-SV.9)
 - Item 41 – One (1) .223 Remington caliber cartridge bearing the Federal headstamp (2022-0313-CS.6)

An examination was conducted to determine the functional condition of Item 4 and Item 5. Item 4 and Item 5 are operable and capable of being fired. Bullets and cartridge cases test fired in Item 4 and Item 5 will be retained in MSP-FSD. Item 5 was tested for fully automatic function. Item 5 only functions in semiautomatic mode.

Item 23 and a cartridge case test fired in Item 5 were entered into the National Integrated Ballistic Information Network (NIBIN). You will be notified if these images are later associated with another case(s).

Items 8-12 were microscopically inter-compared and compared to cartridge cases test fired in Item 4. As a result of microscopic comparison, it was concluded that Items 8-12 were identified as having been fired in Item 4.

Items 13-22 were microscopically inter-compared and compared to cartridge cases test fired in Item 5. As a result of microscopic comparison, it was concluded that Items 13-22 were identified as having been fired in Item 5.

The submitted specimen marked as Item 24 was examined and identified as one (1) fired bullet jacket fragment, consistent with .38 caliber class, exhibiting partial polygonal land and groove impressions with a right twist. The submitted specimen marked as Item 25 was examined and identified as one (1) fired bullet jacket fragment, consistent with .38 caliber class, exhibiting six (6) polygonal land and groove impressions with a right twist. The submitted specimen marked as Item 26 was examined and identified as one (1) fired bullet, consistent with .38 caliber class, exhibiting six (6) polygonal land and groove impressions with a right twist. The submitted specimen marked as Item 37 was examined and identified as one (1) fired bullet fragment, consistent .38 caliber class, exhibiting partial polygonal land and groove impressions with a right twist.

The submitted specimens marked as Item 27 and Item 29 were examined and identified as two (2) fired bullets, consistent with .40 S&W / 10mm Auto caliber, exhibiting six (6) polygonal land and groove impressions with a right twist. The submitted specimen marked as Item 36 was examined and identified as one (1) fired bullet, consistent with .40 S&W / 10mm Auto caliber, exhibiting partial polygonal land and groove impressions with a right twist.

STATE OF MARYLAND
MARYLAND STATE POLICE

Requestor's Case #: 22MSP022385

Laboratory File #: 2022-FSD21-04960

The submitted specimens marked as Item 28 and Items 30-34 were examined and identified as six (6) fired bullet jacket fragments exhibiting partial polygonal land and groove impressions with a right twist.

Items 24-26 and Item 37 were microscopically inter-compared and compared to bullets test fired from Item 5. As a result of microscopic comparison, it was concluded that Items 24-26 and Item 37 were inconclusive to each other and inconclusive to bullets test fired from Item 5.

Items 27, 29, and 36 were microscopically inter-compared and compared to bullets test fired from Item 4. As a result of microscopic comparison, it was concluded that Items 27, 29, and 36 were inconclusive to each other and inconclusive to bullets test fired from Item 4.

Item 28 and Items 30-34 were microscopically inter-compared and compared to the following: Items 24-26, 37; Items 27, 29, 36; and bullets test fired from Item 4 and Item 5. As a result of microscopic comparison, it was concluded that Item 28 and Items 30-34 were inconclusive to each other, inconclusive to Items 24-26, 37; inconclusive to Items 27, 29, 36; and inconclusive to bullets test fired from Item 4 and Item 5.

Item 35 is unsuitable for microscopic comparison.

Inter-Comparison:

Per request, Item 5 test fires in the present case were microscopically compared to evidence in the following case:

Agency: Washington County Sheriff's Office

Agency Case #: 2203581

MSP Lab #: 2022-FSD21-06522

Offense: Homicide

Date of Offense: 06/09/2022

Items 1-20: Twenty (20) fired 9mm Luger caliber cartridge cases (Submitter's Items CS-1 thru CS-10, CS-19, CS-21, CS-22, CS-25, CS-31

Items 21-24, 26-31, 33-35, and 37-43: Twenty (20) fired bullets /bullet fragments /bullet jackets /bullet jacket fragments (Submitter's Items CS-12, CS-14, CS-18, CS-20, CS-23, CS-24, CS-29, CS-32, MF11, MF12, MF13, MF14, CM10, CM11, CM12, JW10, JW11, JW12, JW14)

As a result of microscopic comparison, it was concluded that Items 1-20 from 2022-FSD21-06522 / 2203581 were identified as having been fired in the Item 5 firearm in the present case.

As a result of microscopic comparison, it was concluded that the Items 21-24, 26-31, 33-35, and 37-43 from 2022-FSD21-06522 / 2203581 were inconclusive to the bullets test fired from Item 5 in the present case.

As a result of microscopic comparison, it was concluded that the Items 21-24, 26-31, 33-35, and 37-43 from 2022-FSD21-06522 / 2203581 were inconclusive to Items 24-26, 28, 30-34, and 37 in the 21-8A (02/28/2020)

STATE OF MARYLAND
MARYLAND STATE POLICE

Requestor's Case #: 22MSP022385

Laboratory File #: 2022-FSD21-04960

present case.

Examiner: Alicia Quinn
Alicia Quinn
Firearm/Toolmark Examiner

Please arrange prompt retrieval of evidence.

Note:

Identification: Agreement of all discernible class characteristics and sufficient agreement of a combination of individual characteristics where the extent of agreement exceeds that which can occur in the comparison of toolmarks made by different firearms/tools and is consistent with the agreement demonstrated by toolmarks known to have been produced by the same tool/firearm.

Inconclusive: Agreement of all discernible class characteristics without agreement or disagreement of individual characteristics due to an absence, insufficiency, or lack of reproducibility.

Elimination: Significant disagreement of discernible class characteristics and/or individual characteristics.

Unsuitable: Unsuitable for examination.