



AGJENCIA E KOSOVËS PËR FORENZIK

Kosovo Agency on Forensics



The class characteristics on ejector marks in “Automatiku Shqiptar ASH-78 Tip-1” (Albanian Ak-47)

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Introduction:

Kosovo Agency on Forensics has an open Case File with more than two thousand cases of different calibers. The library contains exhibits since right after the war Jun 1999 till nowadays. The most common of all of these calibers is 7.62x39mm. In the beginning examiners were confused by some *ejection marks* in cartridge cases from Crime Scene in cal. 7.62x39mm. During our daily work we got some Albanian Ak-47 to examine where we have noticed similar ejector marks. However we found that these marks are not present in all of them.

Methods and statistics:

The production year in Albanian Ak-47 consists with the main serial number followed by last two digits, which represents the year of production. Having this as a fact, the statistical comparison has been made. For statistical purposes we have examined AK-47 assault rifles with the years of production from 1983 to 1988.

In 40 weapons produced in 1983 and 37 others in 1984 which we examined, the ejector mark pattern was not found.

In 23 examined weapons produced in 1985 we found only one of them that had this unique ejector mark pattern.

In 45 examined weapons produced in 1986 we found that 34 of them had this ejector mark pattern and it is found on AK47 assault rifles bearing serial numbers from 030...-86 to 034...-86.

In 78 examined weapons produced in 1987 we found that 29 of them had this ejector mark pattern and it is found on AK47 assault rifles bearing serial numbers from 038...-87 to 045...-87.

In 34 examined weapons produced in 1988 we found that only one of them has this unique ejector mark pattern.

Discussion and conclusion:

The highest percentage of the ejector mark pattern we have researched is found in weapons produced in 1986, which is reduced in the following year, which then decreases to a minimum in 1988.

Today however, we witness cases of terrorist attacks where the type of AK-47 rifle is quite commonly used. With this research we thought that we could contribute for the other experts and direct them to not make any wrong conclusion.

Reference:

The statistical data on weapons were taken from the examined cases in the Kosovo Agency on Forensics and extracted from the IBIS system. Reminding that we start using IBIS system since of the end of 2010th but also there are included some statistics from the Open Case File which we did early.

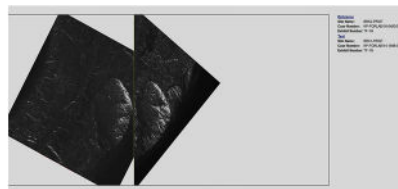


Photo 1: Ejector marks in two weapons from years 1986 & 1987.

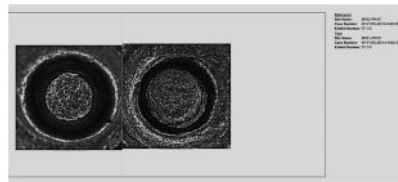


Photo 2: Firing Pin - same cartridge cases as above in photo 1.



Photo 3: Ejector marks in two different weapons: Test fire & CS

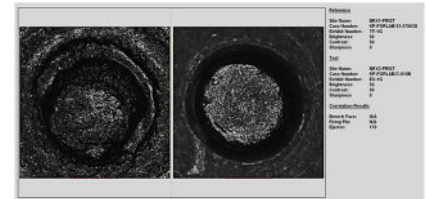


Photo 4: Firing Pin - same cartridge cases as above in photo 3.

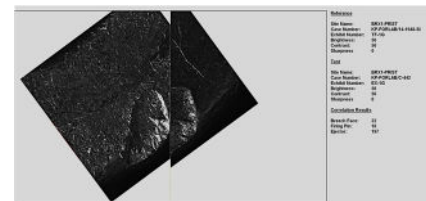


Photo 5: Ejector marks in two different weapons: Test fire & CS

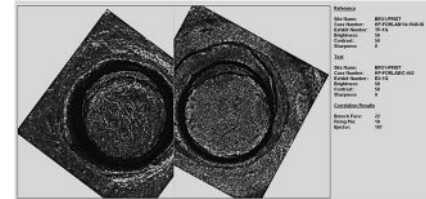


Photo 6: Ejector marks in two different weapons: Test fire & CS

Note: See correlation Results on Breech Face, Firing Pin and Ejector in photos 3, 4, 5 and 6!

