



REPLY TO
ATTENTION OF

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DEPARTMENT OF THE ARMY
AFGHANISTAN CAPTURED MATERIAL EXPLOITATION (ACME)
COMBINED JOINT TASK FORCE PALADIN
BAGRAM AIR FIELD, AFGHANISTAN
APO AE 09354

CJTF-P-ACME-B

11 May 2013

MEMORANDUM FOR RECORD

SUBJECT: Case Number: BAF-13-0896

1. Below is the result from ACME-BAF case number BAF-13-0896:

ACME BAF Chemistry Results:

Item 1 - Part of Hydraulic line - One piece of bent metal, apparent hydraulic line fragment with broken ends. Areas of white paint and possible green paint transfer observed.

Analysis Performed by ACME BAF Chemistry Lab:

- Fourier Transform Infrared Spectroscopy (FT-IR)
Individual Analysis Results:
The fragment was rinsed in methanol followed by water. Both the methanol and water rinses were evaporated in an oven under partial pressure. The methanol rinse resulted in a thin, yellow, oil-like film while the water rinse resulted in a very thin colorless film. No explosive or other exploitable materials were obtained from the FT-IR analysis from either rinse.
- X-Ray Diffraction (XRD)
Individual Analysis Results:
A sample from the water rinse as well as the methanol rinse was prepared for analysis on the XRD using a zero order background sample holder. No usable results were obtained.
- Chemical Detection
Individual Analysis Results:
An Idex Identifier Kit for nitrates and chlorates was conducted on the metal fragment with negative results - no color change.

Conclusion: No explosives or other exploitable materials identified.

Item 2 - Piece of aircraft skin - One piece of bent apparent aircraft skin. One white colored surface covered in oil-like material and the other surface containing chipped/cracked blue paint.

Analysis Performed by ACME BAF Chemistry Lab:

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- Fourier Transform Infrared Spectroscopy (FT-IR)

Individual Analysis Results:

The fragment was rinsed in methanol followed by water. Both the methanol and water rinses were evaporated in an oven under partial pressure. The methanol rinse resulted in a thin, yellow, oil-like film while the water rinse resulted in a very thin colorless film. No explosive or other exploitable materials were obtained from the FT-IR analysis from either rinse.

- X-Ray Diffraction (XRD)

Individual Analysis Results:

A sample from the water rinse as well as the methanol rinse was prepared for analysis on the XRD using a zero order background sample holder. No usable results were obtained.

- Chemical Detection

Individual Analysis Results:

An Idex Identifier Kit for nitrates and chlorates was conducted on the metal fragment with negative results - no color change.

Conclusion: No explosives or other exploitable materials identified.

*Note: Although no explosives were identified it does not eliminate the possibility of the preexistence of an explosive. Likewise, if a military-grade ordinance were to explode properly, it is possible all explosives would be consumed in the explosion and no explosive residue remain within a detectable limit.

2. The point of contact for this report is the undersigned at 318-481-7595.

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