TEST AND MEASUREMENT LAB TEST RESULTS

REQUESTER: R. Hatfield TESTER: R.W. Howe DATE: 1/5/90
REPORT NO.: 900011 WORK ORDER NO.: 481152
WRITTEN BY: RW Howe
TEST TYPE: Dry Cycle

FIREARM STAT'S : MODEL: 700 CAL or GAUGE: ____
BARREL TYPE: ____ PROOFED: YES ___ NO ___

REASON FOR TEST :

To determine if unquenched "after braze" M700 bolt handle assemblies are as good as or better than quenched.

EQUIPMENT REQUIRED :

5 each- quenched and unquenched M700 bolt assm.
2 M700 test lab rifles. + dry cycle machines.

TEST PROCEDURE :

1. Five of each bolt assm. samples were placed in test lab rifles + dry cycle machines and ran to 50,000 cycles of "open and close bolt only" all samples were lubed with aprox 10 drops of Rem oil on cam surface location at start and aprox every two to three thousand cycles to completion.
2. At completion of dry cycle testing bolt handles of both types were sheared off to visually check quality of braze joints.

TEST RESULTS :

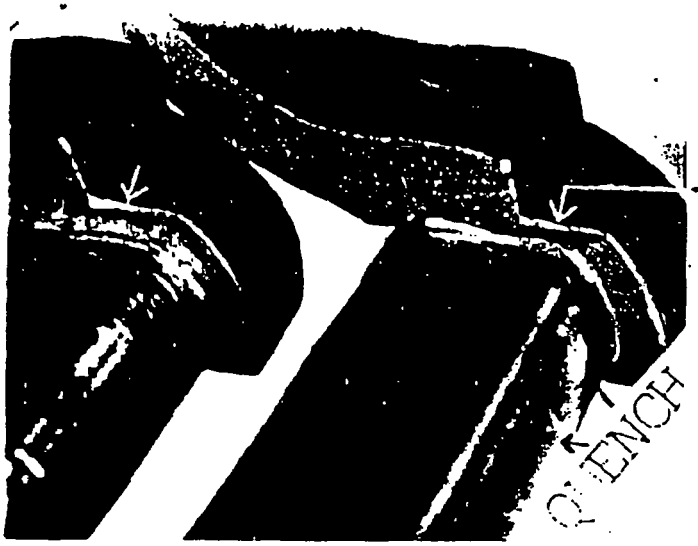
1. No discernible visual difference was noted at the [redacted] bolt handle cam surface location between the two test types at the completion of 50,000 dry cycle each test.

(See photo on following page)

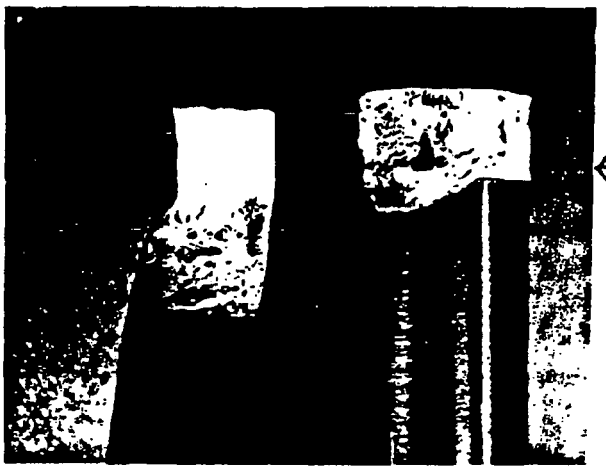
2. After shearing off bolt handles of both test types the "unquenched" samples showed much better braze adhesion than the quenched samples

(See photos of following page)

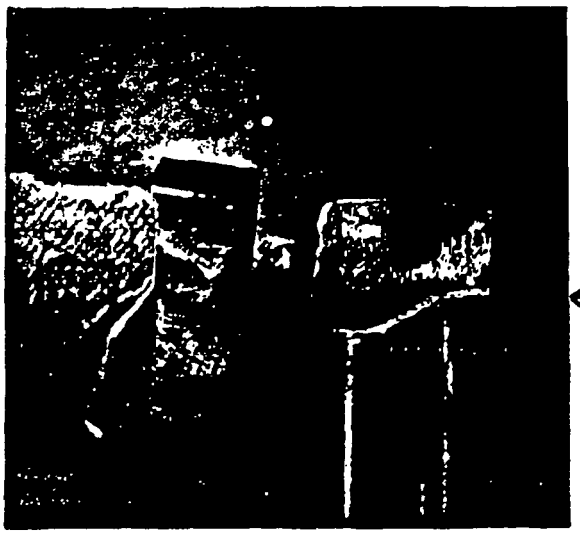
REPORT #900011



ARROWS INDICATE CAM SURFACE



← BRAZE QUALITY UNQUENCHED SAMPLE



← QUENCHED SAMPLE