

TEST AND MEASUREMENT LAB TEST RESULTS

REQUESTER: R. Hatfield TESTER: R. W. Howe DATE: 115190
 REPORT NO.: 900011 WORK ORDER NO.: 481152
 WRITTEN BY: R. W. 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 APPROX 10 DROPS OF REM OIL ON CAM SURFACE LOCATION AT START AND APPROX 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 ~~BOLT~~ 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 ADHERSION THAN THE QUENCHED SAMPLES

(SEE PHOTOS OF FOLLOWING PAGE)

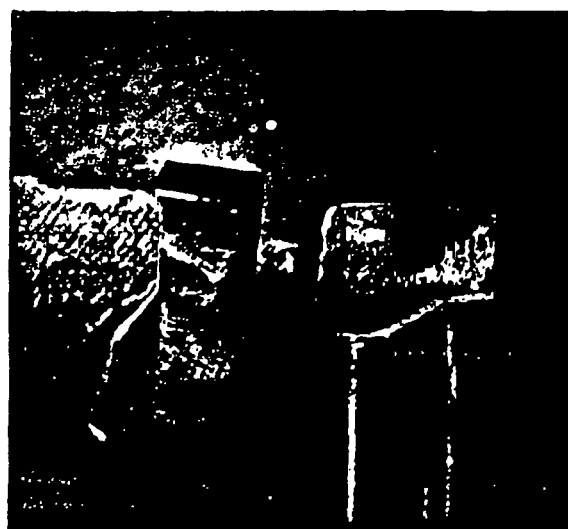
REPORT # 900011



ARROWS INDICATE
CAM SURFACE



BRAZE QUALITY
UNQUENCHED SAMPLE



QUENCHED SAMPLE