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C. E. Ritchie  
D. Bullis

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RESEARCH TEST and MEASUREMENT REPORT - Report No. 830211

M/SEVEN LWT. .222 CALIBER STAMPED NO-BIND FOLLOWER DESIGN  
NO. 4, FUNCTION TEST.

Prepared by: J. Baggetta

Date Prepared: 1-31-83

Proofread and Cleared By:

J.H. Hennings, / R.E. Nightingale,  
Foreman-Test Lab / Foreman-Measurement Lab

*R.E. Nightingale*  
Signature

2-1-83  
Date

C.E. Ritchie,  
Sr. Supervisor - Testing,  
Meas. & Mech. Analysis Lab

*C.E. Ritchie*  
Signature

2/1/83  
Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 830211  
REPORT TITLE: M/SEVEN LWT. .222 CALIBER STAMPED NO-BIND FOLLOWER  
DESIGN NO. 4, FUNCTION TEST.  
MODEL(S): Seven LWT.  
GAUGE OR CALIBER: .222  
DATE: 1-23-83  
WORK ORDER NO.: C-1856-000  
PART NAME: Follower  
DESIGNER/ENGINEER: D. Bullis

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED \_\_\_\_\_
3. FUNCTION TEST - NO. OF GUNS TESTED 4
4. ACCURACY TEST - NO. OF GUNS TESTED \_\_\_\_\_
5. MEASUREMENTS - TYPE: \_\_\_\_\_
6. ENVIRONMENTAL TEST
7. AMMUNITION TESTING & EVALUATION - TYPE: \_\_\_\_\_
8. VISUAL EVALUATION - \_\_\_\_\_ OUT OF \_\_\_\_\_ GUN SAMPLE
9. NO. OF GUNS TESTED: 4  
NO. OF ROUNDS PER GUN: 126  
TOTAL ROUNDS FIRED IN TEST: 504  
AMMO TYPE: MAGS. \_\_\_\_\_; TARGET: X  
RIM FIRE \_\_\_\_\_ CENTER FIRE \_\_\_\_\_

January 31, 1983

TO: R. NIGHTINGALE  
FROM: J. BAGGETTA  
REPORT TITLE: M/SEVEN LWT. .222 CALIBER STAMPED NO-BIND FOLLOWER  
DESIGN NO. 4 FUNCTION TEST

ABSTRACT

A work request was received from D. Bullis, Current Firearms Design, to evaluate the M/Seven LWT. .222 caliber Stamped No-Bind Follower Design No. 4.

SCOPE OF TEST

To evaluate the feeding and ejection of the M/Seven LWT. .222 Caliber Follower.

TEST RESULTS

A. Jack Live Round Unload Function Test

- o Four M/Seven LWT. .222 caliber were live round unload tested a total of 504 rounds (126 rounds each) experiencing 14 malfunctions for an overall malfunction rate of 2.8%.

B. Field Function Test

- o Four (4) M/Seven LWT. .222 caliber were fired a total of 504 rounds (126 rounds each) experiencing 10 malfunctions for an overall malfunction rate of 2.0%.

REPORT TEXT

A. The following rifles experienced malfunctions during the Jack Live Round Unload Test in the R & D shooting room:

- 1.) B6364423 - Two stem chamber high
- 2.) B6364421 - Eight stem chamber left - one stem chamber low.
- 3.) B6364418 - Two stem chamber right - one stem chamber left
- 4.) B6364422 - One stem chamber right

B. The following rifles experienced malfunctions during the Field Function Test at the Ilion Fish & Game Club rifle range:

- 1.) B6364423 - One stem chamber left - one stem chamber right
- 2.) B6364421 - One stem chamber right - one stem chamber left - three stem chamber high
- 3.) B6364418 - One stem chamber right - one stem chamber high
- 4.) B6364422 - One stem chamber left

TEST PROCEDURE

A. Measurements

- o No measurements were taken.

B. Test Conditions

Condition No. 1 - Indoor Jack Live Round Unload

- The test was run using the Test Lab Shooting Room Jacks.
- The rifles were loaded with 5 rounds in the magazine and one in the chamber.
- Various speed feeds were used such as: Slow, Medium and Fast.
- The rifles were live round unload tested only. No live firing was done in the jacks.

Condition No. 2 - Ilion Fish & Game Club Outdoor Range

- The test was run using the Ilion Fish & Game Club rifle range.
- The rifles were loaded with 5 rounds in the magazine and 1 round in the chamber.
- Various speed feeds were used such as: Slow, Medium and Fast.
- Four shooters were used incorporating the round robin system.
- The weather was overcast, 32° and windy.

C. Ammunition

Ammunition used in Jack Live Round Unload and Field Function Test:

Remington 50 gr. Soft Point  
Remington 50 gr. Hollow Point  
Remington 55 gr. Metal Case  
Federal 50 gr. Soft Point  
Federal 55 gr. Metal Case Boat Tail  
Winchester 50 gr. Soft Point  
Winchester 55 gr. Metal Case

(Refer to Appendix "A" Data Sheet No. 1 for malfunction breakdown)

D. Rifles used in Field Function Test:

M/Seven LWT. .222 Caliber  
B6364423  
B6364421  
B6364418  
B6364422

" APPENDIX " A "

Data Sheets

Dps-hs sheet Div.

**SERIAL NO.** \_\_\_\_\_

TEST TITLE: SUMMARY SHEETS PER - RIFLE - AMMO TYPE - SHOOTER

TTL, RDO, FIRED: \_\_\_\_\_  
TTL, MALFUNCTIONS: \_\_\_\_\_  
MALFUNCTION DATE: \_\_\_\_\_

## "MALFUNCTIONS"

[illegible]