

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington

DETROIT

Distribution: C. B. Workman
J. P. Linde
G. Hill
J. Brooks
C. E. Ritchie

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

RESEARCH TEST and MEASUREMENT REPORT - Report No. 831361

MODEL SEVEN - .222 CALIBER TRIAL & PILOT EVALUATION

Prepared by: 5-18-83
Date Prepared: C. E. Ritchie

Prepared and Cleared By:

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

Signature _____ Date _____

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

C. E. Ritchie 5/13/83
Signature Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: - 831361
REPORT TITLE: Model Seven - .222 Caliber Trial & Pilot Evaluation
MODEL(S): Seven
GAUGE OR CALIBER: .222
DATE: 5-16-83
WORK ORDER NO.: 81343-904
PART NAME:
DESIGNER/ENGINEER: G. Hill/J. W. Brooks

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED _____
3. FUNCTION TEST - NO. OF GUNS TESTED _____
4. ACCURACY TEST - NO. OF GUNS TESTED _____
5. MEASUREMENTS - TYPE: _____
6. ENVIRONMENTAL TEST
7. AMMUNITION TESTING & EVALUATION - TYPE: _____
8. VISUAL EVALUATION - 8 OUT OF 40 GUN SAMPLE
9. ENDURANCE - NO. OF GUNS TESTED: _____

NO. OF ROUNDS PER GUN: _____

TOTAL ROUNDS FIRED IN TEST: _____

AMMO TYPE: MAGS. _____; TARGET: _____

RM FIRE _____ CENTER FIRE _____

REMINGTON ARMS CO., INC.
Firearms Research Division

Report No. 831361
Page 1

May 18, 1983

TO: C. B. WORKMAN
FROM: C. E. RITCHIE
REPORT TITLE: MODEL SEVEN - .222 CALIBER TRIAL & PILOT EVALUATION

ABSTRACT

A request was received from G. Hill, Supervisor, Process Engineering, to perform a Trial & Pilot evaluation of the Model Seven .222 Caliber production firearm.

SCOPE OF WORK

Perform a Trial & Pilot evaluation on an 8 gun sample from a 40 gun production run.

TEST RESULTS

Only a Visual Inspection was performed. The sample lot was rejected due to the following:

- 1.) 3 of the 8 guns had been assembled using old style unheat treated trigger guards with the tab bent in the old position (upwards).
- 2.) 1 stock was cracked.

REPORT TEXT

Of the 8 firearms inspected, the following major objections were pointed out:

- 1.) 3 of the 8 guns had been assembled using old style unheat treated trigger guards with tabs bent in the old position (upwards).
- 2.) 1 stock was cracked (beginning at the floor plate tab and running about ¼" towards the muzzle of the gun).

These objections were the basis for rejection of this sample lot. No other physical testing was performed on the sample.

TEST PROCEDURE

An eight gun sample was selected by Charles Stephens, Research Test Lab, from a 40 gun production run.

A visual inspection was conducted in the Test Lab on 5-17-83 at 1:00 p.m. by Z. Kowalski, Process Engineering, D. Bullis, Current Firearms Design, R. Nightingale and E. Ritchie, Test Lab. Guns were wiped down with a clean cloth and inspected by each member of the committee and comments were recorded. Comments on individual guns can be found in the Appendix.

A P P E N D I X

Visual Inspection - T & P Evaluation
M/Seven .222 Cal.

7602556

- rear swivel screw hole not properly aligned.
- floor plate cover exceeds .026" gap.
- grip cap over polished to mis-shape the cap.

7602642

- front swivel screw - bright mark on dome and hole not properly aligned.
- dent in top of stock

7602629

- 2 pin holes and 1 dent in stock.
- light checkering on pistol grip - both sides.
- trigger guard used has tab bent in the old direction (appears not to be heat-treated).

7602508

- excess space between floor plate pad and inlet cut in stock.

7602651

- comb cut (left side) is mis-shaped.
- wood inlet - rear of trigger guard - impression of trigger guard in wood - screw hole probably mis-aligned.
- 2 pin holes in the bottom of the fore-end area.
- light checkering - pistol grip area both sides.

7602631

- 2 dents in pistol grip.
- dent on left top rail of stock.
- bottom of comb is mis-shaped - 3 flats.
- trigger guard used has tab bent in the old direction (appears not to be heat-treated).

7602637

- cracked stock - starts at floor plate pad.

7602605

- sight screw hole marred on rear sight.
- rear trigger guard screw marred.
- dent in floor plate pad.
- scratch on the floor plate cover.
- dent in top of the stock.
- trigger guard used has tab bent in the old direction (appears not to be heat-treated.)

- General Note - 1.) Barrel bracket on all guns were dull finished.
- 2.) Ejection port radius on the stock are all 3/16" radius drawing calls for 3/8" radius.