

Report# 881311

2

Work Order# 480257

MODEL 700 MOUNTAIN RIFLE 7MM-08 CALIBER TRIAL AND PILOT EVALUATION

ABSTRACT:

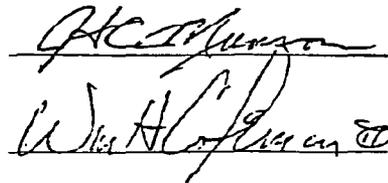
Research and Development finds the Trial and Pilot Evaluation of the 7MM-08 caliber, Model 700 Mountain Rifles to be acceptable. The Trial and Pilot Evaluation consisted of Visual Inspection, Field Function and Accuracy. The 10 rifle sample, randomly selected from a 40 rifle sample, was found to be within Remington specifications for each phase of the Trial and Pilot Evaluation.

Prepared by: F.L. Supry
Date Prepared: July 19, 1988

proofread and cleared by:

H.C. MUNSON, Quality Resource

W.H. COLEMAN, II
New Products Research Lab Director



The image shows two handwritten signatures. The top signature is for H.C. Munson, and the bottom signature is for W.H. Coleman, II. Both signatures are written in dark ink and are positioned to the right of their respective printed names.

Report# 881311

3

Work Order# 480257

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TO: H.C. Munson
FROM: F.L. Supry

INTRODUCTION:

In May, 1988, a request to conduct a Trial and Pilot Evaluation of the 7MM-08 caliber, Model 700 Mountain Rifles was received by the Test Lab. The evaluation used 10 rifles, randomly selected from a production rifle sample and consisted of Visual Inspection, Accuracy and Field Function. The short caliber introduction will also include 243 and 308 caliber rifles. These additional calibers will be tested for function and accuracy as they become available.

SCOPE OF THE TEST:

To determine if the production run sample would meet the Remington Specifications set by the Research Design Section.

TEST RESULTS:

The production sample of the 7MM-08 caliber, Model 700 Mountain Rifles was found to be acceptable in all phases of the Trial and Pilot Evaluation. The results of each phase of testing were as follows:

VISUAL:

The overall appearance of the rifles was good.

ACCURACY:

The average group size was 2.18 inches.

FIELD FUNCTION:

Four of the five rifles tested experienced no malfunctions.

One rifle had one Don't Extract malfunction.

REPORT TEXT:

GENERAL:

The following ten rifles were randomly selected from the production sample for the Trial and Pilot Evaluation:

B6897015	B6897053	B6898043	B6897048	B6898064
B6897128	B6898055	B6897064	B6897073	B6897107

VISUAL INSPECTION:

The visual inspection committee finds the overall visual appearance of the Trial and Pilot sample to be acceptable.

All ten of the rifles were used in the Visual Inspection.

Comments on each rifle are located in the appendix.

FIELD FUNCTION:

Five of the rifles were fired 20 rounds each in a field function test conducted at the Iliion Fish and Game Club and the following results were established:

Four of the rifles experienced no malfunctions.

Rifle B6897053 had one don't extract malfunction.

The following five rifles were used in the field function test:

B6897015	B6897053	B6898043	B6897048	B6898064
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ACCURACY:

The results showed that the 7MM-08 caliber, Model 700 Mountain Rifles tested met the Remington specification (2.7 inches) for group size.

The following five rifles were used in the accuracy test:

B6897015	B6897053	B6898043	B6897048	B6898064
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The average group size for the five rifles used in the accuracy test was 2.18 inches.

Accuracy results per individual rifle are located in the appendix of this report.

TEST PROCEDURE:

VISUAL INSPECTION:

The visual inspection committee consisted of L.B. Bosquet, C.J. Stephens, F.L. Supry, and D.R. Thomas.

All ten rifles were examined.

Each rifle was wiped down with a clean white Coyne towel and examined by each committee member. All comments were recorded.

FIELD FUNCTION:

Five of the ten rifles were subjected to the loading and firing of 20 rounds 140 grain pointed soft point Remington 7MM-08 caliber ammunition in a field function test conducted at the Iliion Fish and Game Club. A round robin method of shooting, alternating shooters every five rounds, was used throughout the field function testing.

ACCURACY:

Three, five shot groups were shot with each of the five rifles selected for 100 yard accuracy. The accuracy was shot by C.J. Stephens in the Research and Development 100 yard range located in building 52-1A.

Remington ammunition code (R02 OD0963) R7M081 (140 grain PSP) was used for the accuracy testing.

Standard short action Leupold bases and rings were used in conjunction with a 12X Redfield scope.

The targets were analyzed for group size using the HP 9000 computer and digitizing tablet.

Report# 881311

6

Work Order# 480257

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APPENDIX

MODEL 700 MOUNTAIN RIFLE 7MM-08 CALIBER TRIAL AND PILOT EVALUATION

VISUAL INSPECTION:

GENERAL COMMENTS:

The appearance of the 7MM-08 caliber, Model 700 Mountain Rifle sample was good.

There were no visual defects severe enough to reject the sample however, the following items were noted in the visual inspection:

COMMENTS PER INDIVIDUAL RIFLE:

B6898064	POOR BBL POLISH IN THE CHAMBER AREA
B6897107	LOOSE FORE-END CAP
B6897015	GOOD LOOKING RIFLE
B6897073	BRIGHT MAR ON THE FLOOR PLATE RELEASE PIN
B6898043	POOR BBL POLISH IN THE CHAMBER AREA
B6897064	POOR BBL POLISH IN THE CHAMBER AREA
B6898055	DIRTY (MOLYKOTE ON THE FINISH)
B6897048	GOOD LOOKING RIFLE
B6897053	GOOD LOOKING RIFLE
B6897128	FINISH BUBBLES IN THE RIGHT SIDE OF THE STOCK NEAR THE RAIL

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100 YARD ACCURACY RESULTS

<u>SERIAL NUMBER</u>	GROUP 1 (in.)	GROUP 2 (in.)	GROUP 3 (in.)	AVERAGE (in.)
B6897015	2.30	3.29	1.91	2.50
B6897053	1.59	2.25	3.50	2.45
B6898043	1.93	1.31	1.42	1.55
B6897048	1.80	2.61	2.53	2.31
B6898064	2.16	1.30	2.82	2.09