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Ilion, New York
April 9, 1957

W. A. BEST

MODEL 722 - 222 CALIBER
QUALITY AUDIT TEST FOR 1957

For your information, the above test was started on 3-8-57 and completed on 4-2-57.

Procedure

Ten rifles were withdrawn from warehouse and subjected to two phases of test. The first phase an accuracy test and the second a functional test. Ammunition used was Rem. manufacture Code K24C. This standardized at 1.02" for three 10-shot groups fired in the bull gun, at 100 yds., using a 20-power scope and bench rest. All rifles were then fired three 5-shot groups under these same conditions. At the completion of this test, nine rifles were then fired 100 rds. each in the shooting jacks for functioning. The tenth gun was used as a customer complaint replacement.

The results are as follows:

Accuracy Test

<u>Gun No.</u>	<u>Group Size</u>	<u>Point of Impact</u>	
399122	1) .6 "	1.2"	left
	2) 1.5 "	1.2"	"
	3) 1. "	.8"	"
	Avg. 1.03"		
391224	1) 1.2 "	0	
	2) 1.14"	0	
	3) 1.2 "	.4"	right
	Avg. 1.18"		
398997	1) 1. "	1.7"	right
	2) .5 "	1.6"	"
	3) 1. "	1.85"	"
	Avg. .83"		

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Gun No.	Group Size	Point of Impact
390616	1) .65"	0 " Left 2.75" high
	2) 1. " "	.2 " 2.9 " "
	3) .64"	0 " 2.85" "
	Avg. .76"	
398811	1) .96"	.9 " left 1.2 " high
	2) .55"	.8 " 1.15" "
	3) .85"	.8 " 1.4 " "
	Avg. .78"	
388894	1) .55"	.6 " left .3 " high
	2) 1. " "	.7 " .5 " "
	3) .9 "	.7 " .1 " "
	Avg. .81"	
391145	1) 1. " "	.8 " right .8 " low
	2) 1.2 "	1. " .7 " "
	3) .9 "	1.1 " 1.1 " "
	Avg. 1.03"	
391262	1) .8 "	1.1 " left 1.1 " low
	2) .8 "	.85" " 1.2 " "
	3) 1.2 "	.65" " 1.1 " "
	Avg. .93"	
391285	1) .9 "	.6 " right 4.25" high
	2) 1.6 "	.55" " 4. " "
	3) .4 "	.75" " 4.35" "
	Avg. .97"	
399159	1) 1.05"	2.6 " right 1.4 " high
	2) .95"	2.6 " 3.8 " "
	3) 1.5 "	2.4 " 3.9 " "
	Avg. 1.17"	
Overall Average Group Size		.949"

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Functional Test

<u>Gun No.</u>	<u>No. Malf.</u>	<u>Rate</u>	<u>Type</u>
399122	3	3. %	3 Stem chambers (Right)
391224	0	0	
398997	1	1. %	1 Stem chamber (Right)
398811	5	5. %	5 Stem chambers (Right)
388894	2	2. %	2 Failures to eject
391145	1	1. %	1 Stem chamber (Right)
391262	0	0	
391285	9	9. %	9 Stem chambers (Right)
399159	2	2. %	2 Stem chambers (Right)

Overall Rate for 900 rds.: 23 Malfunctions
2.5%

Conclusion

1. The accuracy results are the best yet accomplished with factory ammunition.
2. There is no significant change in point of impact.
3. Function-wise these rifles are poor for a manually operated gun.

CJT:T

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