cc: S.M. Alvis
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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Ten rifles were withdrawn from warehouse and subjected to two phases of test.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 hench 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

Gun No.	Group Size		Point of Impact					
3991122 1) 2) 3) AVE.	.6 * 1.5 * 1.03*	1.2*	left	2.2* low				
391224 1) 2 3 Ave	1.2 " 1.14" 1.2 " 1.18"	. д.н О	right	Men.				
398997 1) 2 3 Avg.	1. "	1.7* 1.6* 1.85*	right	.8 * high .75* "				

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April 9, 1957

Gun No.	-	Group Si:	<u>ze</u>		Foin	of Impact
390616	1) 2) 3) Avg.	.65** 1.64** 76**		0 .2 *	Left	2.75° high 2.9° "
398811	1) 2) 3) Avg.	.96* .55* .85* .78*		900 00 #	left s	1.2 bigh
388894	1) 2) 3) Ave.	1. 9 * .81*		.6 * .7 * .7	left "	high
391145	1) 2) 3) Avg.	1.2 * 1.2 * 1.03*	·	.8 s 1.1 s	right	
391262	1) 2) 3) Avg.	.8 * 1.2 * -93*		1.1 * .85* .65*	iest	
391285	2) 3) Avg.	1.6	·	.6 * .55* .75*	right	
3991 59	1) 2) 3) Avg.	1.05* -95* 1.5* 1.17*		2.6 ° 2.6 ° 2.4 °	right *	
Overall Average Group Size						.949*

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W. A. Best

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			F	inct:	ional ;	285				
Gun No.	No.	Malf	Ł	Rate			Type			
399122		3		3.	%	3	Sten	chambers	(Right)	
391224		0		0					***	
398997		1		1.	%	1	Stem	chamber	(night)	
398811		5		5.	%	5	Stem	chambers	(Alght)	
388894		2		2.	%	2	Pailures to eject			
391145		1		1.	%	1	Sten	ohember	(Right)	
391262		0		Ø					· · · · · · · · · · · · · · · · · · ·	
391285		9		9.	%	9	Stem	charbers	(algori)	
399159		2		2.	%	2	Ston	chambers	(night)	
	Overall	Rate	for	900	rds.:	23 2.5%	min	inctions	···	

Conclusion

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

CJT: T

C. J. Therisult Supervisor - Testing Unit