

m/722 Pilot Test

2/25/48

Sum	Ej	7end
25412	1	1
23998	6	6
25397	7	-
25418	2	-
25361	3	-
25297	5	-
25347	10	-
24728	7	-

120 rds each.

Acc.

65

Case

TICKS					REMARKS
COCKING	FEEDING	LOADING	LOCKING	B BREAKAGES	
				R REPLACEMENTS	
				GF GUN FAILURES	
				A ADJUSTMENTS	
					Muzzle .309"
					1" .309"
					2" .309"
					3" .309"
					4" .3088"
					4. Communion of questionable accuracy.
					Types of ammunition have been used some of
					which was standardized at 1.4"-100 yds. The
					other type being the same lot as used in
					Plant testing. Planting story of the latter unknown
					however this is being made to obtain suitable
					accuracy - ammunition before proceeding with the test
				21	W.S.

25397

T O N S				B	R	O F	A	REMARKS
COCKING	FEEDING	LOADING	LOCKING	BREAKAGES	REPLACEMENTS	GUN FAILURES	ADJUSTMENTS	
								30 - 5 low functioning 77 Med. Functioning 3 - Fast Functioning
								In 3 of the Cases primers were protruding from the heads of the shell & catching on the edge of the ejector. It is therefore believed that the fail to eject malfunctions are caused by
								inadequately by the following:
								1. Incorrect chamber dimensions on inside rim of recessed Bolt Head
								2. Ejector - Min length
								3. Bolt shell length of Cartridge are under 4 in as compared with a 4 Master Chamber
								(1) Bolt with correct Chamber
								1
								2 1
								Accuracy firing shows the following
								Average Extreme Spread 4.6" 14.0" 5.7" 14.0" 4.9"
								Condition of Test
								Ammunition Lot 20 R16103 180 Gr SP Range 100 yd
								20 Power Scope, Bench Rest, Fore End supported by Bench Rest
								Shooting M-Walker & W Leek 3-10 shot groups
								Weather Clear & no wind. This accuracy is not considered good & (yawing) of several bullets was noted.
								Poor Accuracy may be attributed to the following
								Conditions:
								1. Shell length under 4 in as compared with Chamber
								2. Poor bedding of the barrel & action.
								Dimensions of bore at 1:10 inch section are large especially the section under the sight ramp.

M722 P.206
Gun #2

DATE	R.T.#	ROUNDS FIRED	MALFUNCTION RATE									MALFUNCTION							
			OVERALL		ADVERSE			NORMAL			FILING	UNLOADING	PRIMARY EXTRACTOR	SECONDARY EXTRACTOR	EJECTION	COCKING	FEEDING		
			TOTAL	PERCENT	ROUNDS	TOTAL	PERCENT	ROUNDS	TOTAL	PERCENT									
	5	0-120													(7)				
									120	7	5.8%				7				
			7	5.8%					120	7	5.8%				7				
	6	121-180																	
									60	0	0%								
			7	3.9%					180	7	3.9%				7				
	9	181-381										(1)							
												6			(4)				
									200	5	2.5%	1			4				
			12	3.2%					381	12	3.2%	1			11				
	10	381-440																	
	10	381-440							60	1	1.67%				(1)				
									440	1	1.67%				1				
			13	3%					440	13	2.92%	1			12				
	11	441-1000													42				
															(1)				

5397 (Endurance Green)

Accuracy firing shows the following

E.S. 3A Anne. Lab
20 Power Scope, Bench Rich
Shooting 4-Walker, W. English
Fired indoors

00

1 - malfunction charged. Firing Pin Assembly (old assembly was binding because of burrs on base of firing pin.) These burrs related to improper installation of the firing pin resulting in deformation of the primer. The Competition could be solved by cutting an oversized hangfire!

60° down

Nat Combs changed section below. He fired Case a
Premier are protruding from fire case which hangs below them.
Protruded to former catch on edge of gutter at the same time
the side of the bay, the shell looks against necessity bold head
change. The change dimension are believed to disagree
with the drawings not sufficient as being checked
on verification. Fire shoulder bearing area of the
300 S. shell is very small & it is believed by the writer that

[illegible]

					B	R	GF	A	REMARKS
LOCKING					BREKAGES	REPLACEMENTS	GUN FAILURES	ADJUSTMENTS	
									EACH SIX 1700 SHOT GROUPS WERE FIRED WITH EACH GUN (2 SHOOTERS FIRED THREE GROUPS EACH) AT 100 YDS. FROM A BEACH REST USING A 10 POWER SCOPE. AMMO: (7030) 180 GR. SOFT PT. CORE-LOKT EXP. LOT M21C STAND. (100 YD) 1.44 AVG EXTREME SPREAD RESULTS AS FOLLOWS:
									<u>GUN #</u> <u>AVG EXTREME SPREAD</u>
									25297 2.85"
									24728 3.78"
									25418 5.3"
									23998 5.2"
									25347 2.94"
									25361 3.8"
									25412 3.1"
									25397 3.4"
									GUN # 25397 WILL BE USED AS THE "ENDURANCE GUN"

LINE TEST (300 SAVAGE)

S				B	R	GP	A	REMARKS
LOADING	LOCKING			BREKAGES	REPLACEMENTS	GUN FAILURES	ADJUSTMENTS	
								8 M/722 RIFLES WERE CHOSEN FROM A LOT OF FIFTY AND FIRED 120 RND. EACH WITH RESULTS AS FOLLOWS:
								GUN # 25412
								BOLT OVER RODE 5TH RND
								FAILED TO EJECT (SLOW)
								GUN # 23998
								4- BOLT OVER RODE SHELL (SLOW)
								2- SHELL JUMPED RAILS (SLOW)
								FAILED TO EJECT (SLOW)
								GUN # 25397
								FAILED TO EJECT (SLOW)
								GUN # 25418
								FAILED TO EJECT (SLOW)
								GUN # 25391
								FAILED TO EJECT (SLOW)
								GUN # 25391
								FAILED TO EJECT (SLOW)
								GUN # 24723
								FAILED TO EJECT (SLOW)
								W.D.E. 2/26/68