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Wayne

May 19, 1948

TO: W. E. Davis

FROM: S. E. Alvis

SUBJECT: MODEL 721 - GAL. 270 PILOT LINE TESTING

The following results of pilot testing of Gal. 270 is for your information and guidance in advance of the formal report which will be issued as soon as accuracy testing has been completed.

Eight (8) guns were selected at random and given a functional test of 240 rounds each; 5 were found to be A.K., and one rifle, #32480, had 4 primary extraction malfunctions and one failure to eject in 240 Rds. for a performance of 25.

Gun #32480 had 4 bolt overrides and these always occurred with the loaded magazine just top out of a full loaded magazine. Examination of the gun shows that the side of the magazine at the lip is badly deformed and we believe is responsible for this difficulty. We have not as yet altered this gun in order that your people can inspect it.

In rifle #32487 there were 11 malfunctions and one gun failure due to a total of 4 malfunctions in 20 rounds; 9 of these were for primary extraction, 2 for secondary extraction, 3 for ejection. Examination of the Bolt Assembly indicated that the Extractor was bent and probably responsible for the difficulty. We have installed a new Extractor and are requesting the Test Unit to re-check the gun and determine if this corrects the trouble.

Will advise as to results.

S. E. Alvis
S. E. Alvis,
Ticon Technical Division

- ENCL

Air Gauge Grooves

Gun # 32437	# 35821	# 32480	# 32418
0" - .2779	0" - .2786	0" - .2778	0" - .2775
1" - .2789	1" - .2789	1" - .2786	1" - .2787
2" - .2789	2" - .2788	2" - .2786	2" - .2786
3" - .2789	3" - .2788	3" - .2785	3" - .2785
4" - .2786	4" - .2785	4" - .2784	4" - .2784
5" - .2784	5" - .2784	5" - .2783	5" - .2784
6" - .2784	6" - .2784	6" - .2783	6" - .2784
7" - .2784	7" - .2784	7" - .2782	7" - .2784
8" - .2784	8" - .2783	8" - .2782	8" - .2784
9" - .2784	9" - .2783	9" - .2783	9" - .2783
10" - .2784	10" - .2783	10" - .2783	10" - .2783
11" - .2784	11" - .2783	11" - .2783	11" - .2783
12" - .2784	12" - .2782	12" - .2783	12" - .2783
13" - .2784	13" - .2781	13" - .2783	13" - .2782
14" - .2784	14" - .2781	14" - .2783	14" - .2782
15" - .2784	15" - .2781	15" - .2783	15" - .2782
16" - .2783	16" - .2781	16" - .2783	16" - .2782
17" - .2783	17" - .2780	17" - .2782	17" - .2782
18" - .2783	18" - .2780	18" - .2782	18" - .2782
19" - .2783	19" - .2780	19" - .2782	19" - .2781
20" - .2782	20" - .2782	20" - .2782	20" - .2781
21" - .2780	21" - .2781	21" - .2781	21" - .2781

Bore - Min Plug
Plug Gauge Go
.270

Plug Gauge
Go
.2695

Plug Gauge
Go
.2695

Plug Gauge
Go
.269