

Wayne

TO: W. H. Davis

FROM: S. M. Davis

SUBJECT: ~~MEMO 721 - CAL. 370 PILOT LINE TESTING~~

Eight (8) guns were selected at random and given a functional test of 240 rounds each; 5 were found to be o.k., and one rifle, #32480, had 4 primary extraction malfunctions and one failure to eject in 240 lbs. for a performance of 23%.

In rifle #12487 there were 14 malfunctions and one gun failure due to a total of 4 malfunctions in 20 rounds; 9 of these were for primary extraction, 2 on secondary extraction, 3 on 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.

[Signature]
S. H. Allen,
Rice Technical Division

R2501326

Air Gauge Grooves

Gum # 32437

0" - .2779
1" - .2789
2" - .2789
3" - .2789
4" - .2786
5" - .2784
6" - .2784
7" - .2784
8" - .2784
9" - .2784
10" - .2784
11" - .2784
12" - .2784
13" - .2784
14" - .2784
15" - .2784
16" - .2783
17" - .2783
18" - .2783
19" - .2783
20" - .2782
21" - .2780

Bore - Min Plug
Plug Gauge Go
.270

35821

0" - .2786
1" - .2789
2" - .2788
3" - .2788
4" - .2785
5" - .2784
6" - .2784
7" - .2784
8" - .2783
9" - .2783
10" - .2783
11" - .2783
12" - .2782
13" - .2781
14" - .2781
15" - .2781
16" - .2781
17" - .2780
18" - .2780
19" - .2780
20" - .2782
21" - .2781

Plug Gauge
Go
.2645

32480

0" - .2778
1" - .2786
2" - .2786
3" - .2785
4" - .2784
5" - .2783
6" - .2783
7" - .2782
8" - .2782
9" - .2783
10" - .2783
11" - .2783
12" - .2783
13" - .2783
14" - .2783
15" - .2783
16" - .2783
17" - .2782
18" - .2782
19" - .2782
20" - .2782
21" - .2781

Plug Gauge
Go
.2645

32418

0" - .2775
1" - .2787
2" - .2786
3" - .2785
4" - .2784
5" - .2784
6" - .2784
7" - .2784
8" - .2784
9" - .2783
10" - .2783
11" - .2783
12" - .2783
13" - .2782
14" - .2782
15" - .2782
16" - .2782
17" - .2782
18" - .2782
19" - .2781
20" - .2781
21" - .2781

Plug Gauge
Go
.269