

cc: R.J. Service
File

Ilion, New York
March 12, 1962

TO: M.H. WALKER

SUBJECT: M/700-222 REMINGTON GUN # 3187

The safe on subject gun was subjected to a dry cycle test of 4000 strokes showing no significant wear to parts involved. The trigger housing had a hardness of 75-15N. Inspection was made by R. Service at 2000 and 4000 cycles. Test was made without the bolt in receiver.

The subject gun was then subjected to a cock and fire dry cycle test of 10,000 cycles being inspected by R. Service at 2,000 and 4,000 and 10,000 cycles with the following results:

- 2,000 Cycles: Sear and connector show signs of wear but no deterioration. Trigger pull found to be variable and readjusted to 4 pound pull.
- 4,000 Cycles: Sear and connector show normal wear. Trigger stop screw advanced. Trigger pull variable (Approx. 62 pounds). Trigger stop screw backed off and heavy staked. Oil lightly applied to sear and connector. Trigger pull 4 pounds. No adjustment of trigger spring required.
- 10,000 Cycles: Trigger pull approx. 4 1/2 pounds. Light burnish but no visible wear on connector, sear at connector and sear at firing pin. Heavy burnish and light wear on firing pin head. Light galling on firing pin point and light burnish on cocking cam. Approx. .025 worn off notch (bolt body). Light burnish on firing pin head cocking piece. Gail on firing pin shoulder. Light scratches and discoloration on bolt body at mag. follower. Light scratches and discoloration on bolt body at magazine spacer. Approx. .020 distortion and burnish on primary extraction cam. Heavy galling on bolt lugs. Squeak developed in bolt lugs at approx. 8100 cycles. Color gone and light

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scratches on magazine spacer. Plate worn,
burnish and discoloration on magazine follower.
Receiver burnished at extraction cam. Front
locking surface not inspected (presumably
galled).

W.R. Googin
Fire Arms Test Lab.

WRG:pb