

## REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington  
QUICKPETERS  
QUICK

Xc:

C.F. Prosser  
D.J. Anderson  
J.W. Bower  
K.R. Chadwick  
J.P. Linde  
A.A. Hugick  
W.R. Googin - File

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"

Ilion, New York  
November 24, 1975SUBJECT: MODEL 700 SEAR LUBRICANT EVALUATION

|                 |                   |
|-----------------|-------------------|
| Date Started    | November 12, 1975 |
| Date Completed: | November 19, 1975 |
| Work Order:     | 90245             |

INTRODUCTION

Request received from C.F. Prosser to evaluate a possible substitute lubricant for the sear of the Model 700 fire control. Plant presently uses Moly-cote Dry/ Type "Z", and the new product is labeled Lifelube dry lubricant. Test to consist of cock and fire dry cycle at rate of 30 cycles per minute with trigger pull measurements every 500 cycles. Test to stop at 10,000 cycles. Two rifles were supplied for test: M/700, Serial No. A6223479 with current Moly-cote, and M/700, Serial No. A6210935 with new product on sear.

RESULTSA. Moly-cote Dry Type "Z" (current)

1. Trigger pull averages varied .70# during test. Neither failures to fire nor excessive wear were noticed.
2. Trigger pull at start: 4.65# -0- cycles  
Trigger pull at finish: 5.35# 10,000 cycles
3. No breakages occurred during test.

B. Lifelube dry lubricant (possible substitute)

1. Trigger pull averages varied .70# during test.  
No failures to fire were noticed.
2. Bolt cam surface experienced galling and had to be stoned at 7,500 cycles.

Model 700 Scar Lubricant Evaluation -2-

November 24, 1975

RESULTS Continued

- B. 3. Trigger pull at start: 4.90# -0- cycles  
Trigger pull at finish: 5.40# 10,000 cycles
4. No breakages occurred during test.

*A.*  
JHHennings:T  
Research Test Lab  
Ilion Research Division

