

cc: W.E. Leek

Illion, New York
December 22, 1961

TO: R.J. SERVICE

SUBJECT: STRENGTH TEST #1

W/740 EXTRACTOR ASSEMB IN M-700 BOLT

Powder 4198 - Lot #58

Bullet Wt. - Remington - 220 Soft Point Caliber - 30-06

- #1. 3.0 grams. Opened W/Pipe extracted freely - fail to eject.
- #2. 3.1 grams. Opened W/Pipe extracted freely - fail to eject.
- #3. 3.2 grams. Opened W/Pipe extracted freely - fail to eject.
- #4. 3.3 grams. Opened W/Pipe extracted freely - fail to eject.
- #5. 3.4 grams. Opened W/Pipe extracted freely - fail to eject.

Extractor appears OK, visually.

All above extractor sheared thru rim when shell held in vise.
After test - Bolt extracted and ejected dummy shell

STRENGTH TEST #2

W/721 EXTRACTOR ASSEMB IN M-721 BOLT

Powder 4198 - Lot #58

Bullet Wt. - Remington - 220 Soft Point Caliber - 30-06

- #1. 3.0 grams. Opened hard by hand.
- #2. 3.1 grams. Opened hard by hand.
- #3. 3.2 grams. Opened hard by hand. Ejector binds in orifice.
- #4. 3.3 grams. Opened hard by hand. Bent, replaced.
- #5. 3.4 grams. Open bolt W/Pipe.

Extractor visibly deformed.

All above extractor sheared thru rim when shell held in vise.
After Test - Bolt would not extract dummy shell.

WRG:pb

D.R. Googin, Test Lab.