

M. Walker

CC: ~~S. M. ...~~
~~R. A. A. Hentschel~~
~~C. J. Kirchen~~
~~P. B. Rutherford~~
~~Netebook~~

April 9, 1946

TO: R. H. Grace
 FROM: C. F. Benner
 SUBJECT: COMPETITIVE AMMUNITION TEST - M/721 - 270 WIN.

On April 5, 1946 a Model 721, #000002, was obtained from Design for Competitive Ammunition Test as per Standard Live Fire Test #12.

Ammunition used in testing:

- Western - Super X, Lubaloy, Soft Point, 150 gr. Lot #A9WM21.
- Winchester - Super Speed, Stayless, Soft Point, 150 gr. Lot #1152.

During the testing feeding malfunctions developed, and one shell misfired. The first shell laying loose on a fully loaded magazine, stemmed or failed to feed into the chamber on every cycle of loading. Bolt Over-ride occurred several times on last shell up from the magazine. It is of interest to note here that feeding from the right side of the magazine is not as smooth as left side feeding. The misfired shell showed a good indent, indications were that the ammunition was faulty.

Malfunctions:

- 1. Western - 200 rds.
 - a. Stem or Fail to Feed Chamber - 40
 - b. Bolt Over-ride - 2
- 2. Winchester - 200 rds.
 - a. Stem or Fail to Feed Chamber - 40
 - b. Bolt Over-ride - 3
 - c. Misfire - 1
 - 1. Case Rim (Reference point) 3.277
 - 2. Primer (below case rim) .007
 - 3. Indent (below primer face) .017

77?

SMA

C. F. Benner
 Engineering Section
 Technical Department

By: *J. F. Finnegan*
 J. F. Finnegan

JFF/EC