

Ilion, New York
October 23, 1962

W. E. LEEK

TEST RESULTS - MODEL XP-100
Endurance and Function Test

During the week of October 14 thru 20, an endurance and function test was run on one Model XP-100, Caliber .221 Fireball. This test was conducted by personnel of the R&D Test Unit. All firing was conducted indoors from mechanical shooting device.

The ammunition used in the test was loaded at Bridgeport earlier in the year for Ilion R&D testing. The loading specifications were 15.8 grains of 4227 powder with a 50 grain Remington bullet.

The test gun was assembled completely with production parts and no alterations of any kind were made on any of the components. The gun was assembled and adjusted by R&D personnel.

No cleaning of any kind was conducted throughout the test.

Prior to commencing the test, the gun was reviewed by the author and members of the R&D Test Unit. Function and operation of the gun were explained at that time, and a pre-fire check was conducted on the weapon.

At frequent intervals during the test, a series of 11 - 5-round groups were fired at 100 yards in an experimental accuracy device. It was the purpose of this targeting to determine the effect of wear on the accuracy of the gun.

Data from these and other checks are indicated on the attached test form. Results of the test have been interpreted by the author as follows:

1. No major change in headspace.
2. Trigger pull increased slightly during test. Probably caused by foreign matter in fire control.
3. Group size decreased from zero to about 2500 rounds, where it commenced to open slightly.

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4. No looseness of trigger housing throughout test.
5. Firing pin protrusion and indent constant.
6. No development of trigger creep.
7. Rib and sight screws have tendency to loosen slightly after prolonged shooting.
8. Receiver - Stock bedding OK.
9. Feeding OK with gun horizontal.

H. L. Chambers, Research Engr.
Firearms Design Section

Checked by:

W.R. Googin, Foreman
R&D Test Unit

HLC:T