

cc: S.M. Alvis
J.B. Maupin
W.E. Leek) In
R.P. Kelly) Turn
H.J. Hackman) In
E. Sapp) Turn
W.A. Best
V.G. DeReus
H.L. Hameister

Ilion, New York
June 7, 1956

R. A. WILLIAMSON

SPORTSMAN-58 - 12 GA. PILOT LINE TESTING

At your request ten (10) of the subject guns were selected from a lot of fifty and subjected to test on 5-25-56. Five (5) guns were assembled with 25" plain barrels and five (5) with 30" plain barrels. 83

New components being tested are as follows:

New style Supersheened Action Bars.
New Sear design.
Carrier Dogs to the latest sample (finish and file).
Carrier Dog Follower to model drawing.
Barrels with the proper throating.
New Magazine Spring Retaining Pin and new Nylon Retainer.
No burrs in Receiver at rear.
New Piston design and square end Piston Ring.
Receiver Assembly with improved Retainer Pin hole position.

Test Procedure

Using four shooters varying from heavy to medium and light shoulder, each gun was fired 325 rds. using thirteen types of ammunition, competitive as well as Rem., for a total of 325 rds. All firing was done on the skeet field using stations #1, 4, 7 and 8 respectively. Each gun was fully loaded and fired twice, then reloaded to present a maximum amount of risk to determine the feed performance.

Gun #24308 was withdrawn from test by the R&D Design Group at 100 rds. of firing for investigation of failures to feed from the magazine with two Win. short magnum shells. This gun had nine malfunctions at this point, six of which were magazine failures, two failures to lock open, and one failure to feed up. The three latter malfunctions occurred on Western 3-3/4 - 1-1/4 load. At the completion of the investigation this gun was restored to the normal pilot line design and retested to 325 rds.