

Report# 920431

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Work Order# 481167

MODEL 700 STAINLESS STEEL, DESIGN ACCEPTANCE

TEST RESULTS:

MEASUREMENTS:

Below are the averages for the ten guns measured for each characteristic.

TRIGGER PULL: 4.3 lbs.

SAFE ON TO OFF: 5.7 lbs.

SAFE OFF TO ON: 7.2 lbs.

FIRING PIN INDENT: .0185 in.

BOLT OPENING FORCE: 7.9 lbs.

HEADSPACE: All guns were within specifications.

A complete summary of measurement data can be found in Appendix A.

ACCURACY:

All 16 rifles tested were within accuracy specifications at 0 rounds and at 2000 rounds. When the guns were accuracy tested after 4000 rounds of endurance shooting 4 of the 16 rifles were slightly out of specification. A complete summary of the accuracy testing can be found in Appendix B.

FUNCTION/ENDURANCE:

Sixteen rifles were endurance tested a total of 112,000 rounds. There were a total of 436 malfunctions for a .39% malfunction rate.

The front left tab of the Magazine Follower was bent to block the movement of the spring. This was done to reduce Stems bottom chamber malfunctions.

There were no breakages during the endurance testing.

A complete summary of endurance testing can be found in Appendix C.

STRENGTH:

One rifle of each caliber was subjected to a high pressure round fired into a plugged bore.

The resulting damage in each case was typical of all Model 700 rifles subjected to this test.

A complete summary of the strength test can be found in Appendix D.

S.A.A.M.I. DROP:

One rifle of each caliber was subjected to the S.A.A.M.I. drop test.

None of the rifles fired during any of the drops.