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Remington Arms Company Inc.
RESEARCH & DEVELOPMENT TECHNICAL CENTER
315 WEST RING ROAD
ELIZABETHTOWN, KY 42701

TLW 1012

The S.A.A.M.I. recommendation for the minimum acceptable malfunction rate for a bolt-action rifle is a malfunction rate of $\leq 3\%$. In this case, if the overall malfunction rate average for the test samples is $> 3\%$, the DAT test will be stopped and the guns returned to Design for modification and improvement before being re-submitted for continuation of the endurance test. If the overall average malfunction rate is $\leq 3\%$ but one of the firearms is significantly greater than the 5% malfunction rate, the test may continue with the other nine test samples while Design attempts to fix the problem with malfunctioning gun. After repair, this gun will again be required to pass the 200 round jack function test at $\leq 3\%$ malfunction rate. If the gun passes these criteria it will then be re-introduced into the Endurance test. It is important that total endurance rounds on the gun include any rounds that are put through the gun for re-test purposes.

Record all instances of malfunctions and failures, and replace parts when they become unserviceable noting the round level when they were replaced.

After every 100 rounds one live round will be extracted and ejected from the chamber to check on live round ejection. The ejected round will then be re-inserted into the chamber and fired to help keep the endurance round count accurate.

Method:

- Disassemble, thoroughly clean, lubricate per the design team's instructions, and reassemble.
- Fire each test firearm in accordance with the firing procedure (number of rounds, firing cycle) specified by engineering and the test plan.
- Before commencing design acceptance testing, calibrate, adjust or re-build the shooting jacks, if necessary.
- Allow the firearm to completely recover in the shooting jack between each shot and do not lean or "stiff arm" the firearm while shooting the gun.
- All ammunition is to be functioned through the magazine - no "single shot" hand feeding permitted.
- Allow the rifle to cool between cycles. One cycle is 100 rounds. The use of forced air to accelerate cooling of the barrels between firing trials is permitted. The air should be directed from the chamber toward the muzzle to prevent it from washing the lubricant from the firearm's action.
- Cycle the safety from the "F" or Fire to "S" or Safe position at the end of every 6 rounds, and from the "S" or Safe to the "F" or Fire position at the start of the next six (6) round cycle.
- After every 500 rounds, disassemble, inspect, clean and lubricate the entire mechanism and take all required measurements.
- The Standard Remington Jacks are to be used for this test. Either jack position is acceptable for this test.

Data Required:

- Rifle serial number
- Tester's name
- The Test Jack Identification
- TLW Number
- Date of actual testing
- Malfunctions per ammo type, breakage, and replacement parts used.
- Any failure that requires the gun to be removed from testing completely.
- Notify management of any unusual events or malfunctions immediately.
- Record ammunition lot code information as it is used throughout the test.

TLW1012AA -Clean Rifles and Inspect:

After each 500 rounds of endurance, unless other wise specified, each rifle will be disassembled, cleaned and thoroughly inspected.

J.R. Snedeker

Page 23 of 41

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