

# **Test Lab Work Request Form**

Date Submitted: 10 March, 2000	Tracking #: TLW 0010AN
Project #: 241095	Engineer: J.R.SNEDEKER

# **Test Objective:**

TLW0010AN - Field Debris Test: GUN # B-22 SERIAL # 71001278

This test determines the effect of "field debris" on firearm performance, where the firing is conducted after the firearm has field debris directly placed in the action. See Table No. 2 for field debris composition.

Table No. 2 - Field Debris Mixture (By Vol	ume) 🖑	134
Dried Grass Clippings	2 parts	
Toothpicks (round, .25" long max.) to	1 part	200 A
represent twigs		- <del>202</del> 5
Bird Seed	part "	
Table Salt	Î part	
Small Stones (.015 dia. to 125" dia.)	1 part	
Crushed Dry Leaves	2 parts	
Pine Needles	1 part	
Hair Samples (no longer than 2 inch)	1 part	

# Test Description:

# Method:

- Clear and lubricate one test gun to the procedure supplied by the design team.
- Remove the bolt. Set the safety in the SAFE position and verify that the firearm is unloaded.
- Record the weight of one level tablespoon of field debris mixture per following table..005LBS
- Expose the firearm as follows:
- Place the firearm in a shooting jack, turn bottom side up, and apply a tablespoon of debris in the firecontrol mechanism from the bottom. Tap the firearm three times, in the middle of the receiver, to jar the rifle and aid field debris getting into the mechanism.
- Turn the firearm to its normal upright horizontal position and apply a tablespoon of field debris to the top of the firecontrol mechanism from the top. Tap the firearm three times, in the middle of the receiver, to jar the rifle and aid the debris getting into the mechanism.
- Wipe away any debris that prevents the bolt from closing. Clean parts as much as

possible by blowing sharply or wiping.

- Fire a full magazine from the firearm. If repeated malfunctions make this impossible, attempt to fire with another magazine. If firing is still unsatisfactory, attempt to fire with a clean magazine, container, etc., loaded with clean ammunition. If repeated malfunctions make it impractical to fire the remaining ammunition, stop the test.
- Cycle the safety from fire to safe every 5 rounds.
- At every 5 round interval verify the firearm is not loaded.
- Close the firearm as if to fire it and put the safety to the SAFE position
- Pull the trigger firmly (10 lb. maximum) firearm must not fire.
- With the finger off the trigger, move the safety to the FIRE position firearm must not fire.
- Disassemble the firearm over white paper and weigh or measure the amount of debris present in the main mechanism area. Debris should be removed from the parts for weighing.

# Data Required:

- Record malfunctions. SEE NOTE'S
- Record number of rounds fired. X /7 srf
- Record weight of debris in the gun at the conclusion of the test. LBS
- Record any firing of the firearm without the trigger being pulled. •
- Record any hang fires. 0

Resource Usage: Manpower Requirements

Test Results Required:

Formal Report: **REQUESTED Completion Date:** 

Data Only: X

**Facility Requirements** 

Required Materials/Parts/Equipment (include quantities):

**Test Parts Availability Date:** 

Start Date: 9/27/00 Completion Date: 9/27/00

**Report Date:** 

**Test Assigned To: STEVE WADE AND** 

**JEFF WADE** 

GUN # 13 - 37/00 DATE - 9/37/00 SHOOTER -JEFF WADE

HUNTING RIFLE FUNCTION
AND ENDURANCE TEST

PROJECT # 241197

EST TLW 0010AN

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ROLINDS AFTER

# BARBER - 5.22.86r0000934 ODHT :0114 CONFIDENTIAL Trisger Pull out of Shock ODHT :0145 CONFIDENTIAL Trisger Pull out of Shock Remington Arms Company Inc. Research & Development Technical Center 315 West Ring Road Elizabethtown, KY 42701 Elizabethtown, KY 42701

### TLW0010AN - Field Debris Test:

This test determines the effect of "field debris" on firearm performance, where the firing is conducted after the firearm has field debris directly placed in the action. See Table No. 2 for field debris composition.

### Method:

- Clean and lubricate one test gun to the procedure supplied by the design team.
- Remove the bolt. Set the safety in the SAFE position and verify that the firearm is unloaded.
- Record the weight of one level tablespoon of field debris mixture perfollowing table. 2, 6125 165
- Expose the firearm as follows:
- Place the firearm in a shooting jack, turn bottom side up, and apply a tablespoon of debris in the firecontrol mechanism from the bottom. Tap the firearm three times, in the middle of the receiver, to jar the rifle and aid field debris getting into the mechanism.
- Turn the firearm to its normal apright horizontal position and apply a tablespoon of field debris to the top of the firecontrol mechanism from the top. Tap the firearm three times, in the middle of the receiver, to jar the rifle and aid the debris getting into the mechanism.
- Wine away thy debris that prevents the bolt from closing. Clean parts as much as possible by blowing strarply or wiping.
- Fire a full magazine from the firearm. If repeated malfunctions make this impossible, attempt to fire with another magazine. If firing is still unsatisfactory, attempt to fire with a clean magazine, container, etc., loaded with clean armunition. If repeated malfunctions make it impractical to fire the remaining ammunition (from a box of 20 cartridges), stop the test.
  - Cycle the safety from fire to safe every 5 rounds.
  - At every 5 round interval verify the firearm is not loaded.
  - Close the firearm as if to fire it and put the safety to the SAFE position
  - Pull the trigger firmly (10 lb. maximum) firearm must not fire.
  - With the finger off the trigger, move the safety to the FIRE position firearm must not fire.

J.R.Snedeker

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03/31/00

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Revision #2

ET06765

### CONFIDENTIAL

Remington Arms Company Inc.
Research & Development Technical Center
315 West Ring Road
Elizabethtown, KY 42701

• Disassemble the firearm over white paper and weigh or measure the amount of debris present in the main mechanism area. Debris should be removed from the parts for weighing.

### Data Required:

- Record malfunctions.
- Record number of rounds fired.
- Record weight of debris in the gun at the conclusion of the test.
- Record any firing of the firearm without the trigger being pulled.
- · Record any hang fires.

Table No. 2 - Field Debris Mixture (By Volume)	
Dried Grass Clippings	2 parts
Toothpicks (round, .25" long max.) to represent	L part
twigs	
Bird Seed	1 part
Table Salt	1 part
Small Stones (.015" dia to .125" dia.)	1 part
Grushed Dry Leaves	2 parts
Pine Needles	l part
Hair Samples (no longer than 2 inch)	1 part

# MISC. TESTS - TLW0010AO THROUGH TLW0010AP

### TLW0010AO - Rain Test:

Use Standard Remington Rain test procedure using the Salt Fog Chamber. Rifle must function without any safety related malfunctions.

J.R.Snedeker

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Revision #2

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