Feld Dedris test #2

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) 🐣	132	S Age V
Dried Grass Clippings	2 parts		
Toothpicks (round, .25" long max.) to	1 part	4	
represent twigs		30	>
Bird Seed	1 part		
Table Salt	l part		
Small Stones (.015 dia. to 125" dia.)	1 part		
Crushed Dry Leaves	2 parts		
Pine Needless	1 part		
Hair Samples (no longer than 2 inch)	1 part		

Test Description:

Method:

- Glean 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. 6 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:

Data Only: X

REQUESTED Completion Date:

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

HUNTING RIFLE FUNCTION
AND ENDURANCE TEST
Field Debis Test

PROJECT # 241197

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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:

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- Remove the bolt. Set the safety in the SAFE position and verify that the frearm is inloaded.
- Record the weight of one level tablespoon of field debris mixture perfollowing table 0, 0125 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 fitearm 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 appright horizontal position and apply a tablespoon of field debris to the top of the firecontrol prechanism 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 my debris that prevents the bolt from closing. Clean parts as much as possible by blowing starply 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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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	1 part
Hair Samples (no longer than 2 inch)	1 part

MISC. TESTS - TLW0010AO THROUGH TLWOO10AP

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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