

field Debris
static Sand & Dust
" & "
D/H.
w/60° cone engagement
Screw

ET06774

Test Lab Work Request Form

Rev.3 -20 April, 2000

Date Submitted: 10/2/00	Tracking # : TLW 0313
Project # : 241095	Engineer: S. Franz
Test Objective: To determine the performance of a new engagement screw tip configuration (60 deg. Cone) when subjected to the following Abuse Tests. • Field Debris • Static Sand & Dust • Dynamic Sand & Dust	
Test Description: • Use Gun B-22 from DAT Phase II testing. • Replace damaged insert in B-22 with a new insert. (Use all original parts from B-22 except the engagement screw, use 60 deg, Cone tipped screw). • Run the three abuse tests in the order listed above. • Follow the Abuse Test Procedures for each test completely as documented in the M/710 DAT Test Plan, Rev. 2 (dated 3/31/2000). • Gun should be completely disassembled, cleaned, reassembled, lubricated and trigger pull and engagement set before each test is run.	
Resource Usage: Manpower Requirements -2 techs. Facility Requirements -F & C range	Test Results Required: Formal Report: Data Only: X Requested Completion Date: 10/4/00
Required Materials/Parts/Equipment (include quantities): B-22, 60 deg. Cone tipped engagement screw, Field Debris medium, Sand & Dust medium, Dynamic Test Chamber.	
Test Parts Availability Date: 10/2/00	
Start Date: 10-3-00 Completion Date: 10-3-00 Report Date: 11/9	Test Assigned To: Assignment Date: 11/11/00

ET06775

TLW0313 +

TLW0010AN

Field Debris Test

Time 10:00 AM

10-03-00

Rd #1 fired

2 Pulled trigger, did not fire, Trigger movement detected

3 fired

4 fired

5 fired

performed 10 LB Test passed

6 fired

7 fired

8 pulled trigger, did not fire, no perceivable trigger movement, open bolt felt like firing pin cocked

9 fired

10 fired

performed 10 LB Test passed

11 fired

12 fired

13 fired

14 fired

15 fired

performed 10 LB Test passed

16 fired

17 fired

18 fired

19 fired

20 fired

performed 10 LB Test passed

83

ET06776

Time 2:15 pm
10-3-00

STATIC Sand and Dust Test TLW0010AM+TLW0313

- Rd. # 1 Pull trigger did not fire
trigger movement when pulled
2 Pull trigger did not fire
trigger movement when pulled
3 Pull trigger did not fire
trigger movement when pulled
4 Pull trigger did not fire
trigger movement when pulled
5 Pull trigger did not fire
trigger movement when pulled.

gun will not fire testing
complete.

ET06777

Time 3:20 pm

10-3-00

Dynamic Sand & Dust Test TLW0010AL + TLW0313

Primed Case - Fired

Rd # 1 fired

2 Fail to feed - fired

3 Pull trigger did not fire

4 fired

5 fired

Preformed 10LB Test passed

6 fired

7 (stem low corrected) fired

8 fired

9 fired

10 fired

preformed 10LB Test passed

11 fired

12 (stem low corrected) fired

13 fired

14 fired

15 fired

preformed 10LB Test passed

16 fired

17 (stem low corrected) fired

18 fired

19. fired

20 fired

preformed 10LB Test passed

83

ET06778

□ weight of debris in Gun at the end of the Field Debris Test.

4.3 Gr

□ Static Sand : Dust Test

21.6 Gr

□ Dynamic Sand : Dust Test

5.1 Gr

weight of 1 Table-Spoon

□ Sand : Dust - 319 Gr

□ Field Debris - 141 Gr

□ weight of Sand : Dust

160 mL = .865 LBS

ET06779