

TEST AND MEASUREMENT LAB

- TEST REPORT

REQUESTER:M.KEENEY

WRITTEN BY:C. STEPHENS

DATE:7 JUNE 93

WORK ORDER:481153

REPORT NO.:931241

TEST TYPE:DRY CYCLE

FIREARM STAT'S: MODEL:700

CAL OR GAGE: N/A

BARREL TYPE:STD.

PROOFED:YES

REASON FOR TEST: TO DETERMNE THE EFFECT OF REDUCING THE WEIGHT OF THE M/700
FIRING ON THE ENDURANCE LIFE OF THE ASSEMBLY.

EQUIPMENT REQUIRED: DRY CYCLE MACHINE, M/700 RIFLE, FIRING PINS.

TEST PROCEDURE: A M/700 RIFLE WAS PLACED IN THE DRY CYCLE MACHINE AND SIX
EXPERIMENTAL FIRING WERE PLACED INTO THE BOLT ASSEMBLY AND DRY CYCLED FOR
30,000 CYCLES OR FAILURE.

TEST RESULTS: THE TEST RESULTS ARE LISTED BELOW.

<u>BOLT NUMBER</u>	<u>CYCLES</u>
4	5245
5	16390
6	2635
7	26554
8	8050
9	29320

30K each

Test Request No. 931241

RESEARCH TEST & MEASUREMENT LAB WORK REQUEST

Purpose for Testing:

<input type="checkbox"/> Developmental	<input checked="" type="checkbox"/> Design Change Eval.	<input type="checkbox"/> Ammunition Evaluation
<input type="checkbox"/> Design Acceptance	<input type="checkbox"/> Plant Assistance	<input type="checkbox"/> Cost Reduction
<input type="checkbox"/> Trial & Pilot	<input type="checkbox"/> Marketing Request	<input type="checkbox"/> Litigation Support
<input type="checkbox"/> Safety Issue	<input type="checkbox"/> Quality Evaluation	<input type="checkbox"/> Other

Types of Testing Requested:

<input type="checkbox"/> Intentional Abuse	<input type="checkbox"/> Endurance Testing	<input type="checkbox"/> Photography/Video
<input type="checkbox"/> Function Test	<input checked="" type="checkbox"/> Dry Cycle Testing	<input type="checkbox"/> High Speed Photography
<input type="checkbox"/> Accuracy Test	<input type="checkbox"/> Ammunition Testing	<input type="checkbox"/> Other (specify)
<input checked="" type="checkbox"/> Measurements	<input type="checkbox"/> Environmental Testing	

Type Report Desired:

☐ Formal Written
☒ Informal Written
☐ Results only

Date Requested: 3 / 5 / 93
(dd / mm / YY)Date Needed: 28 / 5 / 93
(dd / mm / YY)

Work Order No. to be Charged for This

Testing: 481153Name of Requester: Mike KearneyExtension where you can be reached: 3267

Pager Number: _____

Firearm Descriptions:

Model(s): _____	Model(s): _____	Model(s): _____
Gage/Cal: _____	Gage/Cal: _____	Gage/Cal: _____
Barrel Type: _____	Barrel Type: _____	Barrel Type: _____
RAMAC #: _____	RAMAC #: _____	RAMAC #: _____
No. of samples: _____	No. of samples: _____	No. of samples: _____

Explain in DETAIL the reason(s) for conducting this test.

- what are we trying to learn?
- what will be the criteria used to judge the results?
- use back of sheet if more room is needed.

DETERMINING THE EFFECT OF A REDUCTION IN WEIGHT OF THE M/300 FIRING
PIN ON LOCK TIME AND ENDURANCE LIFE OF THE ASSY.

TEST PIECES CONSIST OF 3 SAMPLES PER EACH GROUP, GROUPS ARE AS
FOLLOWS:

- ① STD M/300 FIRING PIN. 1-3
- ② STD M/300 FIRING PIN TIP W/ ALUMINUM SHANK 4-6.
- ③ TITANIUM FIRING PIN TIP W/ ALUMINUM SHANK. 7-9.

86889854

Dry Cycle 30,000 cycles each

TL-FORM # -001

Note: No firearms or parts will be tested in the Lab unless accompanied by a Work Request that is completely filled out along with the guns or parts that are to be tested. NO EXCEPTIONS

Date completed: ____/____/____

Completed By: _____

Report Completed: ____/____/____