

Report No. 911641

RESEARCH TEST & MEASUREMENT LAB WORK REQUEST

<u>AREA OF TESTING</u> ☐ Developmental ☐ Design Acceptance ☐ Pre-Pilot ☐ Pilot ☒ Production Acceptance		☐ Safety Related ☐ Competitive Evaluation ☐ New Design ☐ Design Change ☒ Plant Assistance		☐ Litigation ☐ Warehouse Audit ☐ Cost Reduction ☐ Stake _____ ☐ Other _____	
<u>FIREARM STAT'S</u> MODEL: <u>700</u> CAL. or GAGE: _____ BARREL TYPE: _____ PROOFED: YES _____ NO _____		<u>REPORT REQ'D.</u> FORMAL _____ TEST RESULTS ONLY ☒		DATE REQUESTED: <u>3-6-91</u> DATE NEEDED BY: <u>6-20-91</u> REQUESTED BY: <u>J. SNEDEKER</u> WORK ORDER NO: <u>481152</u>	

TEST TYPE

☐ Strength Test	☐ Ammunition Test	☒ Dry Cycle Test	☐ Photo/Video
☒ Function Test	☒ Environmental Test	☐ Measurements	☐ Other _____
☐ Accuracy Test	☐ Customer Complaint	☐ Endurance Test	

EXPLAIN IN DETAIL THE REASON FOR THIS TEST:

TO EVALUATE RUST RESISTANCE

PLEASE CHECK 15 OF EACH OF THE FOLLOWING M/700 TRIGGER HOUSING ASSEMBLIES FOR RUST RESISTANCE AND FUNCTION AFTER APPROX 90 DAYS EXPOSURE TO PLANT TEMP. AND HUMIDITY AND TWO OF EACH SAMPLE AFTER 90 DAYS FOR FUNCTION BY DRY CYCLE TESTING TO 5,000 CYCLES EACH.

SAMPLE A. RUST PEL 45

B. PRO COR 18N

C. REM OIL

-GUNS REQUIRED:

ALL SAMPLES TO HAVE "MOLYKOTE" AT SEAR/CONNECTOR SURFACE
 15 OF EACH ABOVE SAMPLES PROVIDED

NOTE: NO firearms or parts will be tested in the Labs unless they are accompanied by a Work Request, and both are delivered to the Labs by the designer or engineer. All Work Requests are to be filled out in detail. No Exceptions.

DATE COMPLETED: 6-10-91
 TEST COMPLETED BY: R.W. HOWE
 REPORT DATE: 6-12-91

TEST AND MEASUREMENT LAB TEST RESULTS

REQUESTER: J. R. SNYDER TESTER: R. W. HOWE DATE: 6/12/91
REPORT NO.: 911641 WORK ORDER NO.: 481152
WRITTEN BY: R. W. HOWE
TEST TYPE: DRY CYCLE + ENVIRONMENTAL

FIREARM STAT'S : MODEL: 700 CAL or GAUGE: _____
BARREL TYPE: _____ PROOFED: YES _____ NO _____

REASON FOR TEST :

TO DETERMINE IF THE FOLLOWING LUBRICANTS OR
RUST INHIBITORS ARE SUITABLE FOR USE IN M/700 FIRE
CONTROL PRODUCTION TO PROTECT THE PARTS FROM RUST
DURING AND AFTER ASSEMBLY AND IF THEY HAVE ANY
ADVERSE EFFECT ON THE ASSEMBLIES FUNCTION OR
APPEARANCE.

- SAMPLE A. RUST PEL 45
B. PRO COR 18N
C. REM OIL

EQUIPMENT REQUIRED:

1. 15 SAMPLES OF EACH ABOVE TYPE TRIGGER HOUSING
2. M/700 COCK & FIRE DRY CYCLE MACHINE.
3. TEST LAB M/700 TEST RIFLE

TEST PROCEDURE

2. RUST RESISTANCE "ENVIRONMENTAL TEST"

AFTER APPROX. 90 DAY EXPOSURE TO AMBIANT
PLANT TEMPERATURE AND HUMIDITY VISUALLY INSPECT
15 OF EACH OF THE SAMPLES LISTED BELOW FOR
RUST OR CORROSION AND CHECK EACH MANUALLY FOR
FUNCTION. ALL SAMPLES TO HAVE MOLYKOTE APPLIED TO THE
SEAR/CONNECTOR SURFACE AND COATED WITH THE FOLLOWING.
A. RUST PEL 45, B. PRO COR 18N, C. REM OIL

TEST AND MEASUREMENT LAB TEST RESULTS

REQUESTER: J.R. SNEDEKER TESTER: R.W. HOWE DATE: 6/12/91
 REPORT NO.: 911641 WORK ORDER NO.: 481132
 WRITTEN BY: R.W. HOWE
 TEST TYPE: DRY CYCLE + ENVIRONMENTAL

FIREARM STAT'S : MODEL: 700 CAL or GAUGE: _____
 BARREL TYPE: _____ PROOFED: YES _____ NO _____

TEST PROCEDURE CONT

2. FOLLOWING RUST RESISTANCE EVALUATION
 ASSEMBLE TWO OF EACH SAMPLE INTO TEST
 LAB 700 RIFLE AND DRY CYCLE TO 5,000 CYCLES
 EACH. CHECK TRIGGER PULL AND SAFE "ON"-"OFF" FORCES
 AT ZERO AND FIVE THOUSAND CYCLE LEVELS ON
 ALL SAMPLES.

NOTE: SAFE IS CYCLED FROM "OFF" TO "ON" TO "OFF"
 ONCE IN EVERY TWENTY COCK & FIRE CYCLES.

TEST RESULTS:

1. - VISUAL AND MANUAL CHECK FOR RUST, CORROSION AND
 FUNCTION AFTER 90 DAY EXPOSURE TO PLANT TEMPERATURE
 AND HUMIDITY.

15 SAMPLES OF EACH TYPE (ALL WITH MOLYKOTE ON
 SEAR CONNECTOR SURFACE)
 TYPE A. RUST PEL 45 - OK
 B. PRO COR 18N - OK
 C. REM OIL - OK

FUNCTION GOOD AND
 NO RUST OR CORROSION

2. DRY CYCLE TEST

TWO OF EACH SAMPLE TO 5,000 DRY CYCLES
 EACH. TRIGGER PULL AND SAFE "ON"-"OFF" FORCES
 TAKEN AT 0 AND 5000 CYCLE LEVELS.

DATA ON NEXT PAGE.

TEST RESULTS:REPORT # 911641

DATA

6-12-91

	SAMPLE #	0 CYCLES			5000 CYCLES			FUNCTION APPEARANCE
		TRIGGER PULL	SAFE ON	SAFE OFF	TRIGGER PULL	SAFE ON	SAFE OFF	
A. RUST PEL 45	1	5.50	7.75	5.50	6.00	7.75	5.50	OK
	2	5.50	6.50	5.50	5.75	6.50	5.25	OK
B. PRO COR 18N	1	4.10	6.00	4.50	4.20	6.00	4.50	OK
	2	4.80	7.50	6.00	5.50	7.50	5.50	OK
C. REM OIL	1	4.50	6.25	4.00	4.50	6.50	3.75	OK
	2	5.20	7.50	6.20	5.25	7.40	5.80	OK