TEST AND MEASUREMENT LAB - TEST REPORT

REQUESTER: D. Findlay WRITTEN BY: D. Thomas

DATE: 11/10/93 WORK ORDER:

REPORT NO.: 932792

TEST TYPE: Function / Endurance

MODEL: 522 CAL: 22

REASON FOR TEST:

To compare function and endurance characteristics of the experimental sear 2534 and experimental Firing Pin Spring 2475 to the current design.

EQUIPMENT REQUIRED:

Ten	control Mod	lel 522's (SERIAL #'s)			•
	3049628	3049627	3049655	3049655	3049786	
	3049641	3049745	3049785	3049748	3049656	
Ten	522's with	exp. sear	2534 & exp.	firing pin	spring 2475 (SERIAL	#'5)
	3049882	3049878	3049886	3049881	3049890	
	3049889	3049855	3049872	3049874	3049883	

2000 rounds of each of the ammunition types listed.

Winchester	Remington	Federal	CCI
X22LR	6122	710	00052
XT22LR	1522	712	00033
X22LRH	1922		

TEST_PROCEDURE:

Twenty guns were shot 100 rounds with each of the ammunition types listed above, for a total of 1000 rounds per gun.
All malfunctions and breakages were recorded.

TEST RESULTS:

The malfunctions by group were as f	ollows:	
Malfunction	Control	Experimental
Fail to Fire (Stopped 2nd Sear)	30	131
Trapped Shell	10	65
Fail to Fire (post-hit)	6	51
Bolt Override	19	36
Don't Close Up	60	31
Stems Chamber	15	18
Don't Blow Back (Stopped 2nd Sear)	0	3
Fail to Fire (good hit)	2	2
Fail to Connect	3	0
Blown Case	1	0
Total	146	337
Total rounds fired	10000	9800
Malfunction rate	1.46%	3.4%

BARBER - PRESALE R 0120404				
Tes	t Request No. 932792			
RESEARCH TEST & MEASUREMENT	LAB WORK REQUEST			
Purpose for Testing: Developmental Design Change Expension Acceptance Plant Assistance Trial & Pilot Marketing Request Safety Issue Quality Evaluation	val Ammunition Evaluation Cost Reduction Litigation Support Other			
Types of Testing Requested: Intentional Abuse	ng Photography/Video ng High Speed Photography			
Type Report Desired: Formal Written Informal Written Results only Date Requested: Date Requested: Output Date Reque	ld / mm / yy)			
Work Order No. to be Charged for This Extension where Testing: Pager Number:	you can reached: IVIS			
Firearm Descriptions: Model(s):	Barrel Type: RAMAC #: No.of samples:			
- what will be the criteria used to jude - use back of sheet if more room is need	led .			
SHOOT 10 UIPURS WITH EXP SEAR 2534 + EXP DILLE SPRING 2475 1000 RD KIDLEANCE WITH VARCOUS AMI				
TYPES. SHOOT ALSO THE SAME 1000 P	THE COUNTESES			
TL-FORM # -00	1			
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	Completed By:			