

Report# 920431

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Work Order# 481167

MODEL 700 STAINLESS STEEL, DESIGN ACCEPTANCE

REPORT TEXT:(cont.)

MEASUREMENTS:

Trigger pull, safety button on/off forces, headspace, bolt opening force and firing pin indent were taken on all thirty-two rifles.

Following is a list of instruments used for measurements:

Trigger pull: Chatillon Model IN-10 spring scale

Safety button forces: Hunter LO-10 spring scale

Bolt opening force: Hunter L-20 spring scale

Headspace: B-83853-A Belt plugs were used for 300 Win Mag, 338 Win Mag, 7mm Rem Mag, 7mm Weatherby Mag.

B-73438 Clymer headspace plugs were used for 3006, 2506, and 270 calibers.

B-81578 Clymer headspace plugs were used for 280 caliber.

Firing Pin indent: A crusher holder 300 Win was used for all four magnum calibers.

B-1-82744 crusher holder was used for 280 Rem. caliber.

B-2-54337 crusher holder was used for 3006, 2506, & 270.

FUNCTION/ENDURANCE:

One rifle of each caliber was tested to 10,000 rounds and one to 4000 rounds.

The endurance/function testing was done in the Research shooting room located in building 52-1-A.

The following ammunition types were used in the function/endurance test:

CALIBER	ORDER#	DESCRIPTION	ROUNDS
7MM REM MAG	R7MM2	Rem. 150gn. Pointed Soft Point Core-Lokt	5200
	R7MM3	Rem. 175gn. Pointed Soft Point Core-Lokt	5200
	P7RE	Fed. 165gn. Boat-tail Soft Point	900
	7RB	Fed. 175gn. Hi-Shok Soft Point	800
	7RA	Fed. 150gn. Hi-Shok Soft Point	1000
	17021	Norma 150gn.	400
	X7MMR1	Win. 150gn. Power Point	300
	X7MMR2	Win. 175gn. Power Point	200
TOTAL			14000
300 WIN MAG	R300W1	Rem. 150gn. Pointed Soft Point Core-Lokt	6800
	R300W2	Rem. 180gn. Pointed Soft Point Core-Lokt	6800
	X30WM1	Win. 150gn. Power Point	200
	X30WM2	Win. 180gn. Power Point	100
	X30WM3	Win. 220gn. Silver Tip	100
TOTAL			14000
7MM WEATHERBY MAG	R7MWB1	Rem. 140gn. Pointed Soft Point	5600
	R7MWB2	Rem. 175gn. P.S.P. Core-Lokt	5500
	17031	Weatherby 139gn.	1300
	17032	Weatherby	200
	17035	Weatherby 175 gn.	1400
TOTAL			14000