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TLW0010

Remington Arms Company Inc.
RESEARCH & DEVELOPMENT TECHNICAL CENTER
315 WEST RING ROAD
ELIZABETHTOWN, KY 42701

3.3.1.2 TLW0010AG – Group Size at 100 Yards

One hundred-yard accuracy testing was completed utilizing standard factory ammunition. The test consisted of three, 5-shot groups. Rifles were cooled after every group. Each firearm was cleaned and fired with five fouling shots prior to beginning the accuracy work-up. Group sizes were measured from actual targets and recorded. The same code of ammunition and same type of ammunition was used for all group size test shots. The standard for Average group sizes was set at $\leq 2.7"$ at 100 yards.

Rounds	BUSHNELL SCOPE		TASCO SCOPE	
	B-4	B-7	B-5	B-9
0	1.417	1.379	1.527	1.545
20	1.368	1.370	1.259	1.444
40	1.567	1.659	1.650	1.258

All group sizes were under the 2.7" minimum. The overall average for all rifles over the 40 round test was calculated to be 1.4157 inches. There was not a statistically significant difference in terms of group size between the rifles using the Bushnell scope and the rifles using the Tasco scope.

The technician stated that the scope was a factor in testing. In the opinion of the technician groups would have been tighter with a higher quality scopes with thinner cross hairs.

3.4 ENVIRONMENTAL TESTING

3.4.1 Temperature & Humidity Testing

3.4.1.1 TLW0010AH – Hot Function Test

The purpose of this test was an evaluation of the effects of extreme high temperature on the functional performance of the product such as would be experienced if the firearm were to be stored in a vehicle such as a truck on a hot summer day with the windows closed. Under such conditions, temperatures could be expected to approach or exceed 120°F. The rifle used in this test was pre-heated to 120°F for 14 hours then shot with 20 rounds at which time the rifle was returned to the chamber for two hours to return the firearm to the test temperature. This cycle was repeated 4 more cycles of twenty rounds each until a total of 100 rounds were shot through the rifle. No malfunctions were experienced.

Jan 2001 Design Acceptance Test Remington M710 Centerfire Rifle;
R & D Technical Center Project No. 241039; TLW 0010
file: E:\Test Reports\Firearms Tests\M710_DAT_REPORT_JAN01_Rev1.doc

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Subject to Protective Order - Williams v. Remington