

Test Lab Work Request Form

Date Submitted: 10 March, 2000	Tracking #: TLW 0010AI
Project #: 241095	Engineer: J.R.SNEDEKER
Test Objective: TLW0010AI – Cold Function Test: GUN # B-21 SERIAL # 71001322 <p>This test evaluates the effect of extreme low temperatures on the functioning performance of the firearms. Shoot the firearm from inside the environmental test cabinet in the long range.</p>	
Test Description: <u>Method:</u> <ul style="list-style-type: none"> • Condition the firearm and 100 rounds of ammunition of climatic chamber for at least 6 hours at a temperature of -20 degrees F. • Test each firearm within the chamber as follows: • Fire 20 rounds of ammunition. Wait 2 hours and repeat until all 100 rounds have been fired. • Do not perform maintenance during the 100 round cycle. • Cycle the safety from fire to safe every 5 rounds. • After 100 rounds have been fired through the firearm, remove the firearm from the conditioning chamber, disassemble, thoroughly inspect, clean and lubricate. <u>Data Required:</u> <ul style="list-style-type: none"> • Record temperature and exposure times. -20 Degree F. / 15 Hours • Record all malfunctions: FIRST ROUND DID NOT FIRE (LIGHT INDENT) • Record damage noted during inspection. (EVERYTHING OK) • Record all necessary maintenance actions performed. (See report TLW 0010AI) 	
Resource Usage: Manpower Requirements - Facility Requirements -	Test Results Required: Formal Report: Data Only: X REQUESTED Completion Date:
Required Materials/Parts/Equipment (include quantities):	
Test Parts Availability Date:	
Start Date: 9/14/00 Completion Date: 9/14/00 Report Date:	Test Assigned To: STEVE WADE & JEFF WADE

ET18845

PROJECT # 241095
AMMO REMINGTON 30.06
180 GRAIN R30064

COLD FUNCTION TEST
GUN # B21
SERIAL # 71001322

TRACKING # TLW 0010AI

AMMO REMINGTON 30.06 180 GRAIN R30064

LOT # C03 SC1326

MALFUNCTIONS

MALFUNCTIONS

1 1 MISFIRE
2 2
3 3
4 4
5 5 CYCLED SAFETY
6 6
7 7
8 8
9 9

10 10 CYCLED SAFETY

11 1
12 2
13 3
14 4

15 5 CYCLED SAFETY

16 6
17 7
18 8
19 9

20 10 FIRED 20 ROUNDS AT -20 DEGREE F.

21 1
22 2
23 3 BOLT WOULD NOT CLOSE
24 4

25 5 CYCLED SAFETY

26 6
27 7
28 8
29 9

30 10 CYCLED SAFETY

31 1
32 2
33 3
34 4

35 5 CYCLED SAFETY

36 6
37 7
38 8
39 9

40 10 FIRED 20 ROUNDS AT -20 DEGREE F.

41 1
42 2
43 3
44 4

45 5 CYCLED SAFETY

46 6
47 7
48 8
49 9

50 10 CYCLED SAFETY

51 1

52 2

53 3

54 4

55 5 CYCLED SAFETY

56 6

57 7

58 8

59 9

60 10 FIRED 20 ROUNDS AT -20 DEGREE F.

61 1

62 2

63 3

64 4

65 5 CYCLED SAFETY

66 6

67 7

68 8

69 9

70 10 CYCLED SAFETY

71 1

72 2

73 3

74 4

75 5 CYCLED SAFETY

76 6

77 7

78 8

79 9

80 10 FIRED 20 ROUNDS AT -20 DEGREE F.

81 1

82 2

83 3

84 4

85 5 CYCLED SAFETY

86 6

87 7

88 8

89 9 BOLT WOULD NOT CLOSE (ROTATE RD CLOSED)

90 10 CYCLED SAFETY

91 1

92 2

93 3

94 4

95 5 CYCLED SAFETY

96 6

97 7

98 8

99 9

100 10 FIRED 20 ROUNDS AT -20 DEGREE F.

83

ET18846

PROJECT # 241095
AMMO REMINGTON 30.06
180 GRAIN R30064

COLD FUNCTION TEST
GUN # B21
SERIAL # 71001322

TRACKING # TLW 0010AI

- # 1 PLACE GUN B 21 AND 100 ROUND OF AMMO IN FREEZER FOR 15 HOURS AT -20 DEGREE F.
- # 2 TOOK GUN B 21 AND 20 ROUNDS OF AMMO OUT OF FREEZER TO BLOW-UP ROOM AND SHOT 20 ROUNDS WITH LANYARD.
- # 3 PUT GUN B-21 BACK IN FREEZER FOR 2 HOURS.
- # 4 AFTER 2 HOURS TOOK GUN B-21 AND 20 ROUNDS OF AMMO OUT OF FREEZER TO BLOW-UP ROOM AND SHOT 20 ROUNDS WITH LANYARD.
- # 5 PUT GUN B-21 BACK IN FREEZER FOR 2 HOURS.
- # 6 AFTER 2 HOURS TOOK GUN B-21 AND 20 ROUNDS OF AMMO OUT OF FREEZER TO BLOW-UP ROOM AND SHOT 20 ROUNDS WITH LANYARD.
- # 7 PUT GUN B-21 BACK IN FREEZER FOR 2 HOURS.
- # 8 AFTER 2 HOURS TOOK GUN B-21 AND 20 ROUNDS OF AMMO OUT OF FREEZER TO BLOW-UP ROOM AND SHOT 20 ROUNDS WITH LANYARD.
- # 9 PUT GUN B-21 BACK IN FREEZER FOR 2 HOURS.
- # 10 AFTER 2 HOURS TOOK GUN B-21 AND 20 ROUNDS OF AMMO OUT OF FREEZER TO BLOW-UP ROOM AND SHOT 20 ROUNDS WITH LANYARD.
- # 11 CLEANED AND INSPECTED GUN. (OK)

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Confidential - Subject to Protective Order
Williams v. Remington

Not In Order!

first 20 Cold fired rounds indents Misfired Round = .012

.021 .016 .019 .020 .022 .022 .016 .017 .020 .017

.016 .018 .021 .021 .021 .022 .022 .015 .021

first 20 hot fired rounds indents

.019 .022 .022 .022 .022 .022 .023 .023 .023 .022

.022 .021 .022 .020 .022 .021 .022 .020 .022 .022

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