H. P. WHITE LABORATORY
RESEARCH • DEVELOPMENT • ENGINEERING
BOX 331 BELAIR, MARYLAND
TELEPHONE
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6 April 1964

Corrosion Reaction Consultants, Inc.
Limekiln Pike
Dresher, Pennsylvania

ATTN: Mr. George Kolb

Gentlemen:

Subject: H. P. White Laboratory Project No. 1027-643, Your Purchase Order No. 1821

This letter constitutes a report on the above subject matter, testing CRC 3-36 for lubrication qualities in automatic rifles at ambient temperatures and at -65° Fahrenheit and also for removal of lead deposits and powder from shotgun barrels.

The automatic rifle used in test #1 and test #2 was a [redacted] automatic rifle, caliber .30, [redacted] The rifle is fed by a magazine containing 20 rounds of 30-06 ammunition and is gas operated. The normal rate of fire at fast automatic is 600 to 800 rounds per minute. The operating group has approximately 10 moving parts. The gas port was set at the largest opening.

Test #1 The rates of fire, using a full magazine each time, at ambient temperature are as follows:

Lubrication	Rate of Fire
Dry	570 rounds per minute
CRC 3-36	580 rounds per minute
Cosmolubric 804	550 rounds per minute

Test #2 The rates of fire, using a full magazine each time, at -65° Fahrenheit are as follows:

Lubrication	Rate of Fire
Dry	543 rounds per minute
CRC 3-36	547 rounds per minute
Cosmolubric 804	543 rounds per minute

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The test for removal of lead deposits and powder from shotgun barrels has not yet been completed. As soon as it is completed, the results will be promptly forwarded to you.

Should there be any questions concerning the lubrication tests on the automatic rifle, we shall be glad to furnish any further information.

Very truly yours,

E.F. WHITE LABORATORY

W.F. Senior

WFS/ss