

# H. P. WHITE LABORATORY



RESEARCH • DEVELOPMENT • ENGINEERING

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6 April 1964

Corrosion Reaction Consultants, Inc.

Lincoln 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 3-38 for lubrication qualities in automatic rifles at ambient tem-  
peratures 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 maga-  
zine containing 20 rounds of 30-06 ammunition and is gas operated.  
The normal rate of fire at fast automatic is 300 to 600 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 3-38       | 530 rounds per minute |
| Comolubric 504 | 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 3-38       | 547 rounds per minute |
| Comolubric 504 | 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. P. WHITE LABORATORY

*W. F. Senior*

W. F. Senior

WFS/sc