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ARMY AIR FORCES
MATERIEL CENTER

FLIGHT SECTION
MEMORANDUM REPORT ON

Pursuit Single Engine P-40K-1, A.A.F. No. 42-9761

Date

May 6, 1943

HJB:da:19

SUBJECT: Speed Tests

BRANCH: ~~Engineering~~ Flight Test

Contract No.

Expenditure Order No. 601-196

Purchase Order No.

SERIAL No. FS-M-19-1553-A (Addendum No. 1)

A. Purpose.

1. Determine effect of different finishes on high speed of Curtiss P-40K-1 airplane, A.A.F. No. 42-9761. Airplane equipped with V-1710-73 engine with "T" manifold screens. Horsepowers obtained from power curve V-1710-39 dated 12-12-41.

B. Test Results.

1. Airplane was first flown in the normal service condition with standard camouflage paint. An increase of 4.5 MPH was obtained by smoothing the finish with sandpaper and water and following with a rubdown with pumice and water.
2. A further increase of 6 MPH at high speed was obtained by filling all cracks, depressions, and overlapping joints with special putty which was sanded smooth when dry and followed by a rubdown with pumice and water. Tests at 13,000 feet, 3000 RPM, wide open throttle, and 1127 b.h.p.

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P-40121 442-9761
CAPT. LUNGEQIST 4-1-43

■ SANDED CONDITION 4-1-43
○ CRACKS AND DEPRESSIONS 4-10-43
FILLED WITH PUTTY, SANDED
FOLLOWED BY RUBDOWN WITH WATER & PUMICE

