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ARMY AIR FORCES
MATERIEL ~~GENERAL~~ COMMAND
FLIGHT SECTION
MEMORANDUM REPORT ON

NRB:ew:19

XP-63A, A.C. No. 42-76015

Date May 22, 1943

SUBJECT: Preliminary High Speed and
Climb Performance Tests - XP-63A

BRANCH SECTION ~~Flight Test~~

Classification changed to
UNCLASSIFIED
by authority of CG, AM
DATE 7 June 1999

Contract No. _____
Expenditure Order No. _____
Purchase Order No. _____

SERIAL No. FS-M-19-1589-A

True
Capt U.S.A.

1. The following is a report of the preliminary high speed and climb performance tests conducted on the XP-63A airplane:

Altitude Ft.	Speed MPH	Oil Temp.	Prestone Temp.	Horse-Power	Throttle Setting
<u>War Emergency Power</u>					
2,500	354.0	4.0°	Flush	1475	P
6,500	368.5	4.0°	1.0	1430	P
10,500	381.5	4.0	1.0	1390	W.O.
14,500	392.0	3.5	1.0	1330	W.O.
18,500	398.0	2.5	1.0	1260	W.O.
22,500	398.5	1.5	1.5	1165	W.O.
<u>Military Power</u>					
25,300	396.5	Flush	Flush	1110	W.O.
28,300	391.5	Flush	Flush	1010	W.O.
31,300	384.5	Flush	Flush	907	W.O.
34,400	377.0	Flush	Flush	802	W.O.

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Flight Section
Memorandum Report No. FS-4-19-1569-A
May 22, 1943

Preliminary High Speed and
Climb Performance Tests - XP-63A

Altitude Ft.	Rate of Climb Ft/Min	Time to Climb Min	
0	3670	0)
5,000	3590	1.35)
10,000	3460	2.79)
15,000	3210	4.29) War
20,000	2800	5.94) Emergency
25,000	2200	7.94)
30,000	1540	10.64)
35,000	860	14.94)
40,000	160	26.76)
S/40,400	100	29.61)
A/41,200	0)

Actual speed points
Power for critical altitude estimated
War emergency for climb. Cooled
for the day it was run.

Concurrence:

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(Name)

Approved by Ernest K. Warburton, Col. AC
Chief, Flight Test Branch

Distribution:

Approved by O. J. Eppright, Col. AG
Chief, Flight Section

- ✓ Chief, Engr. Div.
- Attn. Flight Research Liaison Br.
- Project Officer, Col M.A. Cooper,
- Flight Br. Engr. Div.
- ✓ Chief, Aircraft Laboratory (2)
- ✓ Chief, Aerodynamics Branch
- ✓ Chief, Aircraft Projects Branch

- ✓ Chief, Power Plant Lab.
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