## INTER-OFFICE MEMORANDUM

ARMY AIR FORCES

## HEADQUARTERS OF THE MATERIEL COMMAND WASHINGTON

October 23, 1942

TO:

Chief, Experimental Engineering Section, Wright Field.

8975

SUBJECT:

Performance and Characteristics of the Japanese Zero

Model A6M2 Airplane.

Forwarded herewith is a condensed report of pertient information taken from Navy Department reports on the Zero-2, Model A6M2 airplane. The figures are the results of flight tests recently redertaken by the Navy at San Diego, California. This information should be treated with reserve in lieu of a forthcoming formal report:

Gross Weight:

5555 pounds.

Engine:

cubic inch displacement. 14 cylinder radial

t take-off. 900 B.H.P. estind

840 B.H.P. normal.

Armament:

Two (2) syndronized 7.7mm/500 rounds each. Two (2) 20 mm Oerlikon/60 rounds each.

Fuel:

gal. wing tanks

38.0 gal. fuselage tank

87. gal. belly tank (droppable).

Range:

175 miles with all internal fuel.

These preliminary figures for maximum speed and rate of climb are not reduced to standard conditions and are not corrected for compressibility.

	Approx.	V	max.	at	sea level (MPH	277
*	18	11	11		6000 feet (MPH)	
	11	11	17	at	12,000 feet(MPH	320
	11	11	11	at	16,000 feet(MPH	335
	11	11	11	at	20,000 feet (MPH)	331
	**	11	11		24,000 feet(MPH	

	Approx.	ra	te	of	climb	at	sea level	(ft/min)	2710
	11	11	tt				6000 feet	(ft/min)	2620
	11	11	II		11	at	12,000 feet	(ft/min)	2530
**	11	11	11				15,000 feet		2480
	-11	R	tt		11		20,000 feet		1760

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\* Approx. critical altitude in level fait.
\*\* Approx. critical altitude in climb

Service Ceiling: 37000' at maximum power.

NOTE: For these tests the propeller setting used permitted a maximum RPN of approximately 2600 and the manifold pressure is automatically regulated to 35" below critical altitude.

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