

SPEC. AN-H-8
DEC. 18, 1942

FORM AIR-152

AIRPLANE MODELS

**SPECIFIC ENGINE
FLIGHT CHART**

ENGINE MODELS

P-40F & P-40L

V-1650-1

CONDITION	FUEL PRESSURE (LB./SQ. IN.)	OIL PRESSURE (LB./SQ. IN.)	OIL TEMP.		COOLANT TEMP.				MAX. PERMISSIBLE DIVING RPM:.....3180.....				
			°C	°F	°C	°F			CONDITION	ALLOWABLE OIL CONSUMPTION			
DESIRED	12-16	70-80	75		90								
MAXIMUM	16	90	85		121								
MINIMUM	12	60	15		80								
IDLING	9	15											
SUPERCHARGER TYPE: INTEGRAL, SINGLE STAGE, TWO SPEED, CENTRIFUGAL										FUEL GRADE: 100			
										OCTANE			
OPERATING CONDITION	RPM	MANIFOLD PRESSURE (BOOST)	HORSE-POWER	CRITICAL ALTITUDE		BLOWER	USE LOW BLOWER BELOW	MIXTURE CONTROL POSITION	FUEL FLOW (GAL./HR./ENG.)		MAXIMUM CYL. TEMP.		MAXIMUM DURATION (MINUTES)
				WITH RAM	NO RAM				U.S.	IMP.	°C	°F	
TAKE-OFF	3000	54.3	1300			L		A.R.	133	111			
WAR EMERGENCY *	3000	61.0	1300	4,500		L		A.R.					
	3000	61.0	1300	12,000		H		A.R.					
MILITARY	3000	48.2	1240	11,500		L	15,000	A.R.	123	102			5
	3000	48.2	1120	18,500		H		A.R.	120	100			
MAXIMUM CONTINUOUS	2650	44.2	1080	9,500		L		A.R.	98	82			CONT.
	2650	44.2	1010	18,000		H	12,000	A.R.	93	77			
MAXIMUM CRUISE	2320	37.3	810	9,500		L		A.R.	87	72			
	2320	36.0	758	18,000		H	12,000	A.L.	85	74			CONT.
MINIMUM SPECIFIC CONSUMPTION	1850	37.5	650	S.L.		L		A.L.	57	47	52		
	2100	34.0	700	10,000		L		A.L.	65	54	56		
	2650	29.0	725	20,000		L	26,000	A.L.	79	66	69		CONT.
	2650	25.0	680	30,000		H		A.L.	55	46	57		

REMARKS: *To be used in pre-combat or combat zones ONLY. EMERGENCY ONLY.

RESTRICTED

T. O. No. 01-25CH-1

- 37 -

RESTRICTED