

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

FORM ASC-812

AIRPLANE MODELS

P-40K SERIES

**SPECIFIC ENGINE
FLIGHT CHART**

ENGINE MODELS

V-1710-73

CONDITION	FUEL PRESSURE (LB./SQ. IN.)	OIL PRESSURE (LB./SQ. IN.)	OIL TEMP.		COOLANT TEMP.				MAX. PERMISSIBLE DIVING RPM:..... 3120	
			°C	°F	°C	°F			CONDITION	ALLOWABLE OIL CONSUMPTION
DESIRED	17-1	60-70	60-80	140-176	106-115	221-239			MAX. CONT.	13.3... U.S.QT/HR.. 22... IMP.PT/HR
MAXIMUM	18	85	95	203	126	267			MAX. CRUISE	10... U.S.QT/HR.. 17... IMP.PT/HR
MINIMUM	12	55	20	68	85	185			MIN. SPECIFIC	5.7... U.S.QT/HR.. 9-12... IMP.PT/HR
IDLING	9	15							OIL GRADE: (S)..... (W).....	

SUPERCHARGER TYPE: SINGLE STAGE, SINGLE SPEED, MECHANICAL DRIVEN 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		1325	SEA LEVEL				AUTO RICH	155	129			5
WAR EMERGENCY	3000	60.0	1550	SEA LEVEL				AUTO RICH	174	145			5 **
MILITARY	3000	44.2	1150	11,800				AUTO RICH	132	110			15
MAXIMUM CONTINUOUS	2600	37.8	1000	11,000				AUTO RICH	105	87			
MAXIMUM CRUISE	2280	28.0	670	14,800		SINGLE STAGE		AUTO LEAN	50	42			
MINIMUM SPECIFIC CONSUMPTION	1950	22.5	395	S.L.				AUTO LEAN	30	25			
	1950	22.5	420	5,000					32	27			
	1950	22.5	450	10,000					34	28			
	1950	22.5	475	15,000					36	30			
	1950	F.T.	460	20,000					35	29			

REMARKS: * SPEC. AN-VV-F-781 AMEND. 5. ** TO BE USED IN PRE-COMBAT ZONES ONLY.
 1. CRUISING BELOW 1800 RPM MAY RESULT IN INSUFFICIENT GENERATOR OUTPUT.
 2. USE OF OVER 80 IN. MANIFOLD PRESSURE WILL RESULT IN CYLINDER HEAD OR SOME OTHER ENGINE PART FAILURE.