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

FORM ASC-512

AIRPLANE MODELS

P-39Q-1-BE

SPECIFIC ENGINE FLIGHT CHART

ENGINE MODELS

V-1710-85

CONDITION	FUEL PRESSURE (LB/SQ. IN.)	OIL PRESSURE (LB/SQ. IN.)	OIL TEMP. °C	OIL TEMP. °F	COOLANT TEMP. °C	COOLANT TEMP. °F		
DESIRED	12-16	60-70	60-80	140-176	105-115			
MAXIMUM	16	85	95	203	125			
MINIMUM	12	55			85		RED. GEAR OIL	
IDLING	10	15					PRESSURE **	

MAX. PERMISSIBLE DIVING RPM: .....

CONDITION	ALLOWABLE OIL CONSUMPTION
MAX. CONT.	13.3 U.S.QT/HR 22.2 IMP.PT/HR
MAX. CRUISE	10.0 U.S.QT/HR 16.7 IMP.PT/HR
MIN. SPECIFIC	5-7 U.S.QT/HR 8-12 IMP.PT/HR

OIL GRADE: (S) 1120 (W) 1100

SUPERCHARGER TYPE: SINGLE SPEED, SINGLE STAGE, GEAR DRIVEN

FUEL GRADE: 100* OCTANE

OPERATING CONDITION	RPM	MANIFOLD PRESSURE (BOOST)	HORSE-POWER	CRITICAL ALTITUDE WITH RAM	CRITICAL ALTITUDE NO RAM	BLOWER	USE LOW BLOWER BELOW:	MIXTURE CONTROL POSITION	FUEL FLOW (GAL/HR/ENG.) U.S.	FUEL FLOW (GAL/HR/ENG.) IMP.	MAXIMUM CYL. TEMP. °C	MAXIMUM CYL. TEMP. °F	MAXIMUM DURATION (MINUTES)
TAKE-OFF	3000	50.5	1200	SEA LEVEL				FULL RICH	142	118			5
WAR EMERGENCY	3000	57.0	1420	9,000		SINGLE SPEED		FULL RICH	170	142	SEE		5
MILITARY	3000	44.5	1125	15,500				AUTO RICH	138	115	COOLANT		15
MAXIMUM CONTINUOUS	2600	39.2	1000	14,000				AUTO RICH	109	91	TEMP.		
MAXIMUM CRUISE	2280	31.7	750	14,000				AUTO RICH	74	61			
MINIMUM SPECIFIC CONSUMPTION													

REMARKS: * FUEL GRADE - AN-VV-F-781 (AMEND. 5)

** REDUCTION GEARBOX OIL PRESSURE: IDLING 15 LB/SQ.IN.; MINIMUM CRUISE (1800 RPM) 40 LB/SQ IN.