

CONFIDENTIAL

SPEED RUN							RATE OF CLIMB								Indicated rate of climb ft/m.	
Alt.	T.A.S.	F.A.T.	C.I.A.S.	M.P.	R.P.M.	T.A.S.	Alt.	Time	I.A.S.	F.A.T.	T.A.S.	M.P.	R.P.M.	Turbo		
5,000	330	+19	316	47	3000	345	500	0	180			44.5	2800		3500'	
"	302	+16	290	38	2600	315										
"	269	+14	260.5	30.5	2280	285	5000	2:00	175			44.5	2800		3000'	
10,000	325	-5	312	47	3000	359										
"	296	+10	285	38	2600	340	10000	4:00	170			44.5	2800		2500'	
"	263	+9	255	30.5	2280	302									2300'	
15,000	318	-3	305	47	3000	380	15000	6:15	165			44.5	2800		2200'	
"	282	+7	272	38	2600	350										
"	259	+5	251	30.5	2280	325	20000	8:35	155			41	2600		2000'	
20,000	289	-2	279	47	3000	392										
"	265	-4	257	38	2600	362	25000	11:20	145			40	2600		1800'	
"	240	-5	234	30.5	2280	327										
25,000	255	-16	248	41.5	3000	384	30000	14:20	135			35	2600		1600'	
"	248	-15	241	38	2600	363									1000'	
"	225	-16	220	30.5	2280	340	35000	19:05	125			30	2600		600'	
30,000	228	-31	223	36.5	3000	367										
"	225	-32	220	36.5	2600	363										
"	208	-28	205	30.5	2280	339										
35,000				31.5	3000		(Intercoolers not capable to perform required work) This setting could not be used as carburetor air temperatures went to 50°C and above which is too high for these engines.									
"	191	-38	189	31.5	2600	346										
"	178	-40	177	30.5	2280	317										

CONFIDENTIAL

CONFIDENTIAL

P-38F Air Corps Serial No. 41-7612

Group No. 16

Pressure Altitude 9.92

SPEED RUNS

RATE OF CLIMB

SPEED RUNS							RATE OF CLIMB							Ind. Rate of Climb, ft/min.	
Alt.	I.A.S.	F.A.T.	C.I.A.S.	M.P.	R.P.M.	T.A.S.	Alt.	Time	I.A.S.	F.A.T.	T.A.S.	M.P.	R.P.M.		Turbo
5000	310	+17	301.0	44.5	2800	328.0									
10000	286	+14	279.0	44.5	2800	340.0									
15000	286	+ 5	279.0	44.5	2800	360.0									
20000	278	- 5	269.0	44.5	2800	377									
25000	267	-14	258.5	40.5	2800	392									
30000	228	-25	223.0	35.5	2800	372									
35000	200	-44	197.0	30.5	2800	354									
Intercooler and turbo supercharger trouble was experienced when running at 47 inches manifold pressure and 2800 R.P.M. These runs were then made according to Technical Orders limitations received after original runs were made.															

Archives of M. Williams

CONFIDENTIAL