

CONFIDENTIAL

Air Corps Serial No. 43-2235

P-38 #18 1315 - 1515 Ground Temp. 16°C

Pressure Altitude - 29.92

SPEED RUN						RATE OF CLIMB									Ind. Rate of Climb Ft/min.
Alt. Setting - 29.92															
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	
0000	325	+14	322	44.5	2800	319	5,000	2:00	185	+40		44.5	2800		
	310	+14	305	41	2600	302	10,000	4:00	175	+45		44.5	2800		
	265	+14	262	31	2300	261	15,000	6:00	175	+35		44.5	2800		
5,000	322	+10	319	44.5	2800	344	20,000	8:30	173	+32		39	2600		
	305	+10	300	41	2600	323	25,000	11:30	165	+4		37	2600		
	269	+10	266	31	2300	287	30,000	15:30	155			33	2600		
10,000	303	+5	303	44.5	2800	355	35,000	21:00	152		-10Det. in R.Eng.	30	2600		
	295	+5	291	41	2600	340	500	0	180			44.5	2800		3500
	258	+5	256	31	2300	300	5,000	1:30	175			44.5	2800		3000
15,000	300	-6	296	44.5	2800	373.5	10,000	3:25	170			43	2800		2500
	288	-6	284.5	41	2600	357	15,000	5:30	165			41	2800		2300
	251	-6	249	31	2300	314	20,000	7:50	160			38	2600		2000
												35	2500		
20,000	282	-16	278.5	44.5	2800	381	25,000	11:00	140			34	2500		1000+
												32	2500		
	270	-16	267.5	41	2600	365	30,000	16:10	130			30	2500		900
												29	2500		500 - Average
	242	-16	240	31	2300	328	35,000	26:30	120			27	2500		200
25,000	263	-29	260.5	40.5	2800	385.5									
	258	-28	256	40	2600	379									
	228	-28	227	31	2300	336.5									
30,000	237	-39	236	35.5	2800	380									
	232	-39	231.5	35.0	2600	373									
	217	-38	218	31	2300	352									
35,000	203	-49	203	30.5	2800	359									
	197	-49	197	30.0	2600	350									
	180	-49	181	26	2300	321									

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M.P. and R.P.M. regulated to induce not more than 45°C carb. air temp.
Coolant lights went on at 33,000'. R. Engine hotter than left. Climbing attitude very critical over 30,000'.

NOTE: The above true air speeds are corrected for instrument error, position error, compressibility, pressure altitude and temperature only and have not been reduced to standard conditions

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Air Corps Serial No. 43-2227

P-38 #17

Pressure Altitude - 29.92

SPEED RUN

RATE OF CLIMB

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	Indicated rate of Climb Ft/m.
5000	324	11	314	44.5	2800	338	5,000	1:30	180			44.5	2800		
	311	10	301	41	2600	324.5	10,000	3:20	175			44.5	2800		
	272	9	266.5	31	2300	286	15,000	5:05	175			44.5	2600		
10,000	313	8	303	41.5	2800	355.5	20,000	7:30	170			41	2800		
	302	8	293	41	2600	344	25,000	10:00	160			40	2600		
	265	6	260	31	2300	305	30,000	13:20	145°	-33°c		35	2600		
15,000	300	-2	291	41.5	2800	370	35,000	19:10	125°	-35°c		30	2600		
	272	-2	266.5	41	2600	339									
	255	-2	252	31	2300	320									
20,000	274	-14	268	41.5	2800	370									
	262	-14	258	41	2600	355									
	233	-13	232	31	2300	319.5									
25,000	257	-24	253.5	40.5	2800	379									
	252	-24	249	40	2600	373									
	215	-24	217	31	2300	319									
30,000	223	-36	223	35.5	2800	362									
	220	-36	221	35	2600	360									
	210	-36	212	31	2300	344									
35,000	185	-50	189.5	30.5	2800	337									
	182	-50	187.5	30	2600	332									
	171	-50	178	26	2300	303.5									

Archives of M. Williams

Prestone over 125° at 33,000 Feet.

NOTE: The above true air speeds are corrected for instrument error, position error, compressibility, pressure altitude and temperature only and have not been reduced to standard conditions.

5,000' thru 15,000' Walker 1-30-43
20,000' - Sheppard 2-6-43 #18

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