Date: 29Nov19
Time: 15:08

Turbojet
Alt=24141m ISA -151 C

Station	W kg/s	T K	P kPa	WRstd kg/s
amb		65.87	2.850	
1	2.767	100.00	12.259	
2	2.767	100.00	12.136	13.608
3	2.767	221.87	145.637	1.689
31	2.186	221.87	145.637	
4	2.213	1450.00	141.268	3.690
40	2.352	1391.29	141.268	
41	2.490	1337.84	141.268	3.971
49	2.490	1234.99	95.809	
5	2.767	1149.92	95.809	6.013
6	2.767	1149.92	93.892	
8	2.767	1149.92	93.892	6.135
Bleed	0.028	221.87	145.637	

P2/P1 = 0.9900 P4/P3 = 0.9700 P6/P5 0.9800

Efficiencies:	isentr	polytr	RNI	P/P
Compressor	0.8500	0.8921	0.393	12.000
Burner	0.9999			0.970
Turbine	0.8900	0.8854	0.232	1.474

Spool mech Eff 0.9999 Nom Spd 14000 rpm

Con-Di Nozzle:
A9*(Ps9-Pamb) 0.703

hum [%]	war0	FHV	Fuel
0.0	0.00000	118.429	Hydrogen

FN	=	2.43 kN
TSFC	=	11.4221 g/(kN*s)
FN/W2	=	878.32 m/s
Prop Eff	=	0.3734
eta core	=	0.6615
NGV 2 Stage Turbine		
WF	=	0.02776 kg/s
s NOx	=	0.01505
XM8	=	1.0000
A8	=	0.0270 m²
P8/Pamb	=	32.9493
WBld/W2	=	0.01000
Ang8	=	20.00 °
CD8	=	0.9600
WClN/W2	=	0.10000
WClR/W2	=	0.10000
Loading	=	100.00 %
e45 th	=	0.88231
far7	=	0.01013
PWX	=	0.00 kW
A9/A8	=	1.20000
CFGid	=	0.89165

Input Data File:
C:\Users\Treeva\Downloads\AAE537-master\sabreEstimate.CYJ