

CHT Project Test Flight #1 Wed. Feb 6, 2008 Whiteman Airport N29544

IAS (miles per hour) (miles per hour)	CHT (F) (Degrees F) at 1000' AGL	Left side Manometer Tube	Right side Manometer tube
Idle (taxi)		+ 0.20	- 0.00
Runup 1700 RPM		+ 0.7	- 0.40
50		n/a	n/a
55		+1.0	- 1.0
60	420	+1.2	- 1.0
65	405-410	+1.4	-1.1
70	400-405	+1.5	-1.2
75		+1.4	-1.1
80		+1.6	-1.25
85		+1.75	-1.45
90	350-380	+1.8	-1.5
95	“	+2.0	- 1.8
100	“	+2.1	- 1.95
Oil Temperature:	140-165F max		

A/C Configuration:

Home-made water manometer U-tube type, no orifices or restrictions. Manometer marked 0-6 inches up from zero line (+) and 6 inches down (-) . Left manometer probe in lower cooling plenum between oil dipstick and firewall, approx 6” behind and 3” below rear cylinder. Right manometer probe in upper cooling plenum between upper cylinder spark plugs, opening of probe tube facing 90 degrees outboard (for static pressure reading). “Cold weather” cover installed, reducing the oil cooling baffle (lower crankcase) intake hole to 40% of normal size. Cowl stretched with bottom spacer installed. A/C weight <1100 lbs.

OAT 18 C (64.5 F) Runway altitude 1004 MSL