

CHT Project Test Flight #2 Wed. Feb 6, 2008 Santa Paula Airport N29544

IAS (miles per hour) (miles per hour)	CHT (F) (Degrees F) (no altitude control point)	Left side Manometer Tube	Right side Manometer tube
------------------------------------------	-------------------------------------------------------	-----------------------------	------------------------------

Takeoff and first climb immediately after takeoff

50		n/a	n/a
55		+1.25	- 0.95
60	425-440	+1.4	- 1.0
65		+1.5	-1.0
70	400-405	+1.5	-1.1
75	425-430	+1.6	-1.2

Second low speed climb 2500 – 3000 MSL

60	440 stabilized	+1.2	- 0.95
----	----------------	------	--------

Cruise flight smooth air 4500 – 5000 MSL

95	“	+2.0	- 1.7
100	“	+2.3	- 1.75

Oil Temperature: 165-180 F

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, **additional tape** covering oil cooling hole to reduce the hole to 20% of normal size. Cowl stretched with bottom spacer installed. A/C weight <1100 lbs.

OAT 18 C (64.5 F) Runway altitude 245 MSL