F.T.O. Aeroclub Siena

Aeroporto Siena Ampugnano

TB9
I-IAFO

INFORMAZIONI GENERALI

Motore:	Lycoming O - 320 D3G (4 cilindri orizzontali contrapposti) Cilindrata 5.125 cc 160 HP a 2700 rpm
Elica:	Sensenich 74DM6-0-60
Olio:	Capacità 8 quarti di gallone (circa 8 lt.)
Carburante:	Avgas 100 o Avgas 100 LL Capacità dei due serbatoi 50 us gal.(189 lt.) di cui 48 us gal.(181 lt.) usabili
Peso a vuoto:	1559 lbs. (707 Kg)
Peso max al decollo:	2325 lbs. (1055 Kg)
Peso max all'atteraggio:	2325 lbs. (1055 Kg)
Peso max bagagliaio:	200 lbs. (91 Kg)

STRUMENTI MOTORE

Contagiri:	500 - 2700 rpm (arco verde) 2700 rpm (linea rossa)
Temperatura olio:	75° - 245° F (arco verde) 245° (linea rossa)
Pressione olio:	25 - 60 psi (arco giallo) 60 - 90 psi (arco verde) 90 - 100 psi (arco giallo)
Pressione benzina:	0.5 - 8.0 psi (arco verde)

VELOCITA' CARATTERISTICHE

VNE:	massima strutturale	160 kts
VNO:	massima in aria turbolenta	126 kts
VA:	velocità di manovra	111 kts
VFE:	massima con 40° di flaps	103 kts
VY:	salita rapida (max rateo di salita)	79 kts
VX:	salita ripida (max angolo di rampa)	63 kts
Vemax:	massima efficienza	73 kts
VS:	stallo con 0° di flaps	50 kts
VS0:	stallo con 40° di flaps	44 kts
VR:	rotazione	44 - 57 kts
VAPP1:	avvicinamento 10° flaps	75 kts
VAPP2:	avvicinamento 25° flaps	70 kts
VAPP3:	avvicinamento 40° flaps	63 kts

Massima componente di vento al traverso

Per decolli ed atterraggi 17 kts

PRE FLIGHT CHECK

Technical log book end A/C documents----------check
Avionic master---------- off
Battery---------- on
Fuel gauges----------check
Flaps---------- down
Battery----------off
Door LH---------- check
Left wing, aleron,flap---------- check
Pitot---------- remove cover and holes clear
Main left gear---------- check
Fuel tank vent---------- clear
Fuel tank----------check quantity-secure cup
Fuel tank drain---------- check for water
Nose---------- check
Propeller---------- check
Nose gear strut---------- check
Oil----------check quantity
Fuel drain---------- check for water
Main right gear----------check
Fuel tank vent---------- clear
Fuel tank----------check quantity-secure cup
Fuel tank drain---------- check for water
Right wing, aleron,flap---------- check
Baggage door----------close and secure
Surface condition----------check
Static port----------check
Rudder/stabilator and trim tab---------- check
Antennas----------check
General condition----------check
Static port----------check

BEFORESTART

Doors----------close and latched
Seats and belts----------check
breakers---------- check
Parking brake---------- set
Magnetos---------- off (key in)
Radio master----------off
Battery and alternator---------- on
Fuel pump---------- on/check/off
Anti collision light---------- on
Carburettor heat---------- off
Mixture---------- full rich
Friction----------adjust
Fuel selector---------- lowest tank

ENGINE START

Throttle---------- 1 cm
Propeller----------clear
Magnetos----------start
Throttle---------- 1000 rpm
Oil pressure----------green arc in 30"
Voltmeter---------- check
Ammeter---------- check
Magnetos---------- L/R/Both

AFTER START

Radio master---------- on
Radio and nav---------- set/check
Transponder---------- stand by
Turn indicator----------on
Navigation lights----------on
Flaps----------up
Gyro.compass---------- check
Radio call ----------perform
Altimeter----------QNH

TAXI

Taxi area---------- clear
Parking brake----------released
Brakes----------check
Flight instrument and compass---------- check

RUN UP

Parking brake---------- set
Engine instruments----------green arc 1000 rpm
Fuel selector---------- fullest tank
Throttle---------- 1500 rpm
Carburettor heat----------check (max 100)
Mixture----------check
Throttle---------- 1800 rpm
Magnetos----------check (175 max/50 dif)
Ammeter---------- check
Vacuum----------4,8-5,1
Throttle---------- 1200 rpm

BEFORE TAKE-OFF

Breakers---------- check
Magnetos---------- both
Annunciator panel---------- check
Flight instruments----------check
Engine instruments---------- green arc
Radio and nav---------- set/check
Fuel pump----------on
Battery and alternator---------- on
Flaps----------set
Carburettor heat---------- off
Mixture----------full rich
Friction----------adjust
Trim---------- set
Flight controls---------- checked
Seats and belts---------- check
Doorr----------closed
Briefings----------performed
Radio call---------- perform

LINE-UP

Throttle---------- 1500 rpm
Compass, gyro-compass and QFU---------- check
Engine instrument---------- green arc
Transponder----------ALT
Landing light---------- on

AFTER TAKE-OFF

Engine instrument---------- green arc
Flaps---------- up
Climb power----------set(2500rpm)
Fuel pump----------off
Landing light----------off

CLIMB

Mixture----------rich
Speed----------80 kts
Power---------- 2500 rpm
Altimeter---------- set

CRUISE

Power---------- set
Mixture---------- set
Fuel selector---------- check
Compass and gyro-compass----------check
Engine instrument---------- green arc

DESCENT

Mixture---------- full rich
Power---------- set
Carburettor heat---------- as required
Altimeter---------- set

APPROACH AND FINAL

Fuel pump----------on
Landing light---------- on
Flaps----------as required
Mixture---------- full rich
Carburettor heat----------as required
Fuel selector----------check
Radio call---------- perform

AFTER LANDING

Transponder---------- off
Fuel pump---------- off
Landing light---------- as required
Flaps---------- up
Carburettor heat---------- off
Trim---------- neutral

PARKING

Parking brake---------- set
Throttle---------- close
Radio master---------- off
Turn coordinator---------- off
Navigation lights---------- off
Magnetos---------- check
Throttle---------- 1000 rpm
Mixture---------- cut off
Anti collision light---------- off
Battery and alternator---------- off
Magnetos ---------- off/key out

LOSS OF OIL PRESSURE

Oil annunciator light---------- on
Oil pressure---------- red sector
Throttle---------- reduce if it's possible
Oil temperature---------- check

If the oil temperature is in the red sector

Throttle---------- reduce

Land as soon as possible

LOSS OF FUEL PRESSURE

Auxiliary fuel pump---------- on
Fuel gauges---------- check
Fuel selector---------- change

HIGH OIL TEMPERATURE

Power---------- to reduce
Speed---------- to increase

If the oil temperature doesn't return in normal range land at the nearest airport

ELETTRICAL FAILURE

ALT ANNUCIATOR LIGHT ON

If the voltmeter is in green arc disregard otherwise

Alternator---------- off then on

If the alt annunciator light remains on

Alternator---------- off
Electrical load---------- reduce

The battery is the only source of electrical power

ELETTRICAL OVERLOAD (20A above the norm)

Electrical load---------- reduce

If the alternator load are reduce land as soon as practical, if not

Alternator---------- off

The battery is the only source of electrical power land as soon as possible

ENGINE FIRE DURING START UP

Mixture----------cut off
Starter---------- crank engine
Throttle---------- open
Fuel selector----------off

If fire continues

Battery and generator----------off
Magnetos---------- off

Abandon the aircraft

FIRE IN FLIGHT

Source of fire----------check

ELECTRIC FIRE (engine compartiment)

Battery and alternator----------off
Ventilation---------- off
Heater----------off

ELECTRIC FIRE (in the cabin)

Battery and alternator----------off
All the switches---------- off
Ventilation and heater----------closed
Extinguisher----------use

Land as soon as possible

ENGINE FIRE

Fuel selector----------off
Mixture----------cut off
Fuel pump----------off
Throttle---------- full fowar
Cabin heat---------- off

Proceed for power off landing

ENGINE POWER LOSS IN FLIGHT

Speed----------86 kts
Battery ----------on
Fuel pump---------- on

If power is not restored

Mixture---------- cut off
Throttle---------- ½
Fuel gauges----------check
Fuel selector---------- change
Magnetos----------check
Starter---------- start

When the engine runs mixture slowly to rich, if the power doesn't restore prepare for power off landing

ENGINE POWER LOSS DURING TAKE-OFF

Speed----------70 kts
Mixture---------- full rich
Fuel selector----------on
Fuel pump---------- on

POWER OFF LANDING

Speed----------86 kts
Field----------choose
Magnetos---------- off
Fuel selector----------off
Mixture---------- cut off
Radio call---------- may day
Battery and alternator----------off
Seat belts and harness---------- tight
Briefing----------perform