



ENGINE IDENT Lyc O-320-E2A

UNIQUE ID NUMBER PF08

ENGINE TYPE 4 Cyl. 4 Stroke
 Air Cooled
PROPELLER TYPE MCC 1C172

INJECTOR -

INJECTION NOZZLE -

RATED POWER (Poo) (HP) 150

DATA STATUS

x EMISSION INVENTORY
 PRE-REGULATION
 CERTIFICATION
 REVISED

TEST ENGINE STATUS

 NEWLY MANUFACTURED ENG.
x USED ENGINE
 DEDICATED TO PRODUCTION
 OTHER (SEE REMARKS)

MEASUREMENT STATUS

x IN FLIGHT FIXED PITCH PROP
 GROUND BASED VARIABLE PITCH PROP

CURRENT ENGINE STATUS

x IN PRODUCTION
 OUT OF PRODUCTION
 OUT OF SERVICE

EMISSIONS STATUS

 DATA CORRECTED TO REFERENCE TEMPERATURE
 DATA CORRECTED TO REFERENCE (ANNEX 16 VOLUME II)
x HORIBA OBS2200 IN FLIGHT MEASUREMENT SYSTEM

MEASURED DATA

MODE	POWER SETTING (%)	TIME (minutes)	FUEL FLOW (kg/s)	EI HC (g/kg)	EI CO (g/kg)	EI NOx (g/kg)	PM (...)
TAKE-OFF	100	0.3	0.0100	12.6	816	6.7	
CLIMB OUT	85	2.5	0.0080	15.1	837	6.9	
CRUISE	65	60	-	-	-	-	
APPROACH	45	3	0.0048	13.7	696	19.4	
TAXI	12	12	0.0013	16.0	690	1.6	
CRUISE LEAN	65	60	0.0058	11.7	410	37.0	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			3.18	47.1	2397	27.8	
CRUISE 1 HOUR FUEL (kg) or EMISSIONS (g)			20.9	243	8557	772	
NUMBER OF TESTED ENGINES	1	1	1	1	1	1	
NUMBER OF TESTS	*	*	*	*	*	*	

ATMOSPHERIC CONDITIONS

BAROMETER QFE (hPa) 946 to 834
TEMPERATURE (°C) 13.8 to 5.2
DEW POINT (°C) -
DENSITY ALTITUDE (ft) -

FUEL

SPEC AVGAS 100LL
HC C7H13

MANUFACTURER:

TEST ORGANIZATION: FOCA
TEST LOCATION: Bern (LSZB)
TEST DATES: 22. Mrz 06

REFERENCE:

33-05-003 Std_test060322153704_01a_
ECERT69_HBHF_X_OBS2200_Analysis_
060322_rit
Experts: T. Rindlisbacher, M. Bode, H. Stix

REMARKS: LTO flight profile with 1 second sample intervals