

ENGINE EXHAUST EMISSIONS MEASUREMENT PISTON ENGINES

NEWLY MANUFACTURED ENG.

DEDICATED TO PRODUCTION

OTHER (SEE REMARKS)

OUT OF PRODUCTION OUT OF SERVICE

USED ENGINE

IN PRODUCTION

TEST ENGINE STATUS

CURRENT ENGINE STATUS

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ENGINE IDENT ROTAX 914 CARBURETOR ROTAX

UNIQUE ID NUMBER PF04 INJECTION NOZZLE -

ENGINE TYPE 4Cyl. 4Stroke RATED POWER (Poo) (HP) 114

Water Cooled Turbo Charged

PROPELLER TYPE Var Pitch

DATA STATUS

EMISSION INVENTORY
PRE-REGULATION
CERTIFICATION

REVISED

MEASUREMET STATUS

GROUND BASED FIXED PITCH PROP

GROUND BASED VARIABLE PITCH PROP

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE TEMPERATURE
DATA CORRECTED TO REFERENCE (ANNEX 16 VOLUME II)

V5 CALCULATION METHODOLOGY VERSION NUMBER

MEASURED DATA

MODE	POWER SETTING (%)	TIME (minutes)	FUEL FLOW (kg/s)	EI HC (g/kg)	El CO (g/kg)		PM () ()
TAKE-OFF	100	0.3	0.0072	14.8	1013	5	
CLIMB OUT	85	2.5	0.0056	12.2	660	15	
CRUISE	65	60	0.0042	16.5	805	8	
APPROACH	45	3	0.0029	16.0	776	12	
TAXI	12	12	0.0018	38.6	944	5	
CRUISE LEAN	65	60	0.0042	16.5	805	8	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			2.79	70.5	2314	26	
CRUISE 1HOUR FUEL (kg) or EMISSIONS (g)			15.1	249	12172	121	
NUMBER OF TESTED ENGINES			1	1	1	1	
NUMBER OF TESTS			3	3	3	3	

ATMOSPHERIC CONDITIONS <u>FUEL</u>

BAROMETER QNH (hPa) 1010 SPEC Lead Free Automotive ROZ95

TEMPERATURE (°C)) 38 (Test Cell) HC C7H13

DEW POINT (°C)

DENSITY ALTITUDE (ft) (Turbo Charged)

MANUFACTURER: REFERENCE:

TEST ORGANIZATION: FOCA 33-05-003 Auswertungen_Rotax914_050630_051123_rit

TEST LOCATION: ROTAX FACILITY, GUNSKIRCHEN (A) Experts: W. Bula/T. Rindlisbacher

TEST DATES: 30. June 2005

REMARKS: No manual mixture control: CRUISE LEAN values are identical to CRUISE

Test cell measurement