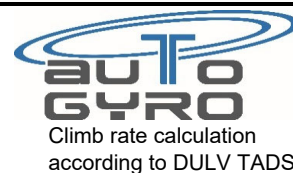


Flight Test Report

Location:

EDVM



Pilot name:

Flight date:

Gyro Type: MTO2017 915 / 916

Serial No.

Rotor: 8,4m TOPP

8,6m TOPP

Prop: HTC 4B

Woodcomp KW-30

(Kennblattnummer)

Key test data

Standard Pilot weight 90kg Add weight to reach MTOW 560kg

Aircraft loading for test		Empty weight (Kg)		kg
P1 mass	kg	P1 ballast (nose)		kg
P2 mass	kg	P2 ballast		kg
Fuel	Ltrs	kg	Other ballast (nose)	kg
OAT		°C	Operating hours	h
Runway used:		Engine hrs since new:		h
QNH at airfield		Airframe hours since new:		h
Wind speed:	< 20 kts	ok	Crosswind <10Kts	ok
If not ok, do not test				

No.	Test	Task	Result		
Groundcheck					
1	Preparation	Check 2nd Fuel pump	audible check	ok	nok
		Low Fuel indicator Lamp "OFF"		ok	nok
2	Engine runup & ground checks	Run engine to normal operating temperatures.	Oil pressure check:	green	above / below
		Idle speed range:1700 - 1800 rpm		ok	nok
		Record lane drops @ 2500rpm (Limits: 250 per lane)	lane1 off	<250rpm	>250rpm
			lane2 off	<250rpm	>250rpm
			Oil temp check:	above 50°C	above 915 130°C 916 120°C
		Water Temp check:	above 50°C	above 120°C	
		Confirm brakes hold at 5,000rpm.	Brakes hold?	ok	nok
	Check flying & trimming controls for free and correct movement, excess backlash and sense of operation.	Steering Check:	ok	nok	
3	Ground handling	Check for manoeuvring ability, i.e., turning radii, directional stability under braking.	Manoeuvring	ok	nok
			Turning radius	ok	nok
			Directional stability under braking	ok	nok
4	Pre rotation operation	Check functioning of rotor pre-rotator mechanism.	tgt 300rpm	300rpm ok	<300rpm nok
		Check clutch LED lights when clutch slips.	light on between 2000-5000 rpm clutch engaged	ok	nok
			flashing light > 5000rpm clutch disengaged	ok	nok
Flightcheck					

Erstellt: Name, Datum

Freigabe: Name, Datum, Unterschrift

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5 Take off				
set Altimeter to standard Atmosphere				
6 climb	Record the time taken to climb from FI 10 to FI 20 and establish the climb rate. Use full power, if fitted with a pitch adjustable prop, full fine.	Time to climb 1000':	sec	OAT QNH
	Record the fuel flow:	Woodcomp l/h (42l/hr min) 915 Woodcomp l/h (49l/hr min) 916 HTC l/h (38l/hr min)	ok	nok
	Climb rate achieved	Calculated according to the specific AC configuration 04-006	ok	nok
	The climb is to be made at full power between 50kts-60kts (57mph-70mph; 92Km/h-111Km/h) , using standard technique as per flight manual. Ensure that the engine does not overspeed	915 HTC 5400 - 5500rpm 915 /916 Woodcomp 5750 - 5850rpm	ok	nok
	Instruments readings at the end of climb	Oil pressure check:	green	above / below
		Oil temp check:	green / below	above
		CT Water Temp check: min 85°C = ok	green	above / below
	pedals parallel in straight flight, into wind:	tolerance +- 2cm	ok	nok
7 In Flight manoeuvring	Stick central Cruise speed - level flight	tolerance +- 1cm	ok	nok
	Pitch adjustable propeller , change to full coarse pitch. Engine rpm should not be below 4600 rpm, and a minimum climb rate of 250fpm (1.3m/s)	Single lever: Test not possible = NA N/A	ok	nok
	The aircraft should possess an adequate range of control function to enable full control about its three axes at all flight speeds.	roll	yes	no
		pitch	yes	no
		yaw	yes	no
	Control forces during all manoeuvres should be normal for a gyroplane. Monitor control responses and rotor/airframe vibration levels throughout all the following manoeuvres.	control forces	ok	nok
	Cruise: set the aircraft in cruise at 75Kts (86mph / 138Km/h) . Assess ability to trim the aircraft for straight & level flight, hands off.	Trim pressure 6,5 bar max	ok	nok
	Assess high speed flight to Vne at FI 10 (do not overspeed the engine, adjust propeller pitch as required - where fitted).	possible to reach Vne	ok	nok
	Vne: Assess turns left and right, and nose up recovery to cruise speed.	Vibrations	ok	nok
		Yaw Control	ok	nok
		Nose up recovery	ok	nok
	High power / low speed assesment (at FL10): If Pitch adjustable prop - set to full fine. Set throttle to max power - not exceeding 5800rpm. Reduce speed to 26kts (48km/h; 30mph)		ok	nok
	Reduce airspeed to minimum indicated, at full power Perform left and right turns and recover aircraft to normal power on cruise attitude. Check effective recovery and controllability.	0 Vne left / right turns	ok	nok

7	In Flight manoeuvring	Dynamic stability: Trim the aircraft for level flight at 92Kts (105mph / 170km/h) . Initiate a pitch disturbance downwards, stick free. There must be no undamped or divergent phugoid	Phugoid test and trim acceptability:	ok	nok	
		Steep turns in each direction flying at a constant bank-angle of 45° and at a constant turn-rate.	Steep turns	ok	nok	
		Vertical descent at min power and minimum indicated airspeed using standard entry and recovery techniques; (entry at FI 15). Check yaw control left and right	Vertical descent with recovery	ok	nok	
		Recovery to stable powered climb following an aborted glide approach [52kts (60mph / 96km/h), throttle closed for touchdown]. During glide perform left and right turns, and comment on controllability.		ok	nok	
		oil temperature min 75°C in flight		ok	nok	
8	Functional checks	Control: during flight check that all controls including trim systems operate without excessive friction or force, and their operation does not provide a distraction to the pilot.	Control Forces	ok	nok	
			Confirm throttle lever does not move itself	ok	nok	
		Instruments: Inspect all instruments and warning lights for correct indications with particular emphasis on the flight instruments	Any analog compass	deviation <10° N/A	ok	nok
			digital compass	N/A	ok	nok
			ASI		ok	nok
			Altimeter		ok	nok
			Rotor Tachometer		ok	nok
			Slip Indicator		ok	nok
			Fuel Gauge		ok	nok
			Warning lights functional and off		ok	nok
VSI	N/A	ok	nok			
9	Radio	Check the radio transmit / receive function to EDVE (120,055) at FI 20 Confirm absence of radio noise at a squelch setting of 3.	Radio strength N/A create comment down below	4-5 ok	1-3 nok	
set Altimeter to QNH						
10	Landing	Using standard flight manual technique for landing, monitor any unusual handling or functioning characteristics of the machine including the rotor and rotor brake.	Rotorbrake check	ok	nok	
		Check the function of the Overdrive System to park the rotors in line with the aircraft	Overdrive System	ok	nok	
11	Low weight	Low weight assessment - perform a general handling test with only Pilot and 10-20ltr fuel (ideal pilot weight <85Kg) The Aircraft must be possible to be trimmed for level flight @Vne	Low weight assessment	ok	nok	
12	Vibrations	General comment on unusual or unacceptable vibration in any flight phase, at light and MTOW weights.	Vibrations	ok	nok	

13	options	Check propeller pitch adjustment - position full fine 4600 +/- 100rpm	N/A	ok	nok
		Garmin device G5 G3X			
		Artificial Horizon Function	N/A	ok	nok
		Garmin Transponder configuration	N/A	ok	nok
		Garmin radio funktion	N/A	ok	nok
		Fuel Pressure Gauge calibrated?	N/A	ok	nok
		Magnetometer calibrated?	N/A	ok	nok
		Fuel storage calibrated?	N/A	ok	nok
		GPS Signal available?	N/A	ok	nok
		Unit selection correct?	N/A	ok	nok
		OAT available?	N/A	ok	nok
		GDL 50 fitted: Bluetooth available?	N/A	ok	nok
		Card Compass heading between Garmin & Aircraft the same +/- 5°	N/A	ok	nok
		Altimeter between Garmin G3X & Garmin G5 & Aircraft standby Instruments the same +/- 100ft	N/A	ok	nok
		Airspeed between Garmin G3X & Garmin G5 & Aircraft standby Instruments the same +/- 5mph (8km/h / 4,3Kts)	N/A	ok	nok
		FLARM fitted?	Function Test N/A	ok	nok

Remarks:

Flight test conclusion; this aircraft does/does not conform to the
flight characteristics required to be released to service.

Conforms

Does not
conform

Pilot signature:

Date:

Remarks:

Crossflight

Crossflight conclusion; this aircraft does/does not conform to
the flight characteristics required to be released to service.

Conforms

Does not
conform

Pilot signature:

Date: