Flig	ht Te	est Re	port	F	light date:			\mathcal{C}	
Pilot name:			Location:		EDV	M	au		
Gyro Ty	pe:	MTO2010		MTO2017		Serial No.			
Rotor:		8,4m		8,4m TOPF	þ	8,8m	8,6m TOPP		
Prop:		HTC		IVO		Woodcomp			
Backgrou		eason: Com	plete stand	ard production	on complian	ce/permit renewal	check as per scheo	dule below.	
Standard	d Pilot we			reach MTO	N	4501	5001		5 001
		Takeoff we	eight for Te	51	Emptywei	450kg	500kg		560kg
	oading fo	lesi			Empty weig			kg	
P1 mass	5		kg		P1 ballast	nose)		kg	
P2 mass	3		kg		P2 ballast			kg	
Fuel		Ltrs		kg	Other balla	st (nose)		kg	
ΟΑΤ				°C	Operating I	nours		h	
Runway	used:				Engine hrs	since new:		h	
QNH at a					-	ours since new:		h	
Wind spe		< 20 kts		ok	Crosswind			ok	Abort
-		< 20 KIS		UK	Crosswind			OK	noda
-	Test Preparat	ion	Task	I Fuel pump		Result audible check		ok	nak
			CHECK ZH					ok	nok
	Engine run & ground checks		Run engin temperatu	e to normal o res.	operating	Oil pressure cheo	ck:	green	above / below
		Check ope controls	eration of eng	gine/fuel	Fuel pressure ch	eck:	green	above / below	
			Idle speed not below			below	v 1600rpm	1600 -1700rpm	above 1700rpm
			Record ma	ag drops @ 4	4000rpm	Mag1 off		<300rpm	>300rpm
			(Limits: 30	00 per coil)		Mag2 off		<300rpm	>300rpm
			(115 maximum difference)		nce)	difference betwee	en	<115rpm	>115rpm
					Oil temp check:		above 50°C	above 130°C	
					Water Temp che	ck:	above 50°C	above 120°C	
			Confirm bi 5,000rpm.	akes hold at		Brakes hold?		ok	nok
			Check propeller pitch adjustment - position full fine -> full coarse at 4000rpm			significant rpm drop:		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

4	Pre rotation operation	Check functioning of rotor pre- rotator mechanism.	MTO 2010 (220rpm)	>220rpm ok	<220rpm nok
			MTO 2017 (300rpm)	>300rpm ok	<300rpm nok
		Check clutch LED lights when clutch slips (only MTO 2017)	light on between 2000- 5000 rpm clutch engaged	ok	nok
			flashing light > 5000rpm clutch disengaged	ok	nok
5	Take off	The take off is to be made at full power, using standard technique as per flight manual. Ensure that engine does not overspeed	< 5500 rpm	5500 rpm	> 5500 rpm
		set Altimeter to	standard Atmosphere		
6	climb	Record the time taken to climb from FI 10 to FI 20 and establish			OAT
		the climb rate. Use full power, if fitted with a pitch adjustable prop, full fine .	Time to climb 1000':	Sec	QNH
		MTO2017 912 ULS	500kg MTOW	>2,5 m/s OK	<2,5m/s nok
		914UL	500kg MTOW	>3,2 m/s OK	<3,2m/s nok
			560kg MTOW	>3,1 m/s OK	<3,1m/s nok
		915IS	560kg MTOW	>X,X m/s OK	<x,xm s<br="">nok</x,xm>
		MTO2010 912ULS 	450kg MTOW	>4,0 m/s OK	<4,0m/s nok
			500kg MTOW	>3,0 m/s OK	<3,0m/s nok
			450kg MTOW	>4,5 m/s OK	<4,5m/s nok
			500kg MTOW	>3,5 m/s OK	<3,5m/s nok
		Confirm the engine does not overspeed, and that the manifold pressure remains with limits (where a gauge is fitted)		ok	nok
			Oil pressure check:	green	above / below
		Instruments readings at the end of climb	Oil temp check:	green	above / below
			CT Water Temp check:	green	above / below
		pedals parallel in straight flight, into wind:	tolerance +- 2cm	ok	nok
	Stick central (cruise speed - level flight)		tolerance +- 1cm	ok	nok

7	In Flight manoeuvring	The aircraft should possess an adequate range of control function	roll	yes	no
		to enable full control about its three axes at all flight speeds.	pitch	yes	no
			yaw	yes	no
		Check for tendency to enter pilot induced oscillation at 55Kts and	55Kts	yes	no
		88Kts, stick free.	88Kts	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 55Kts . Assess ability to trim the aircraft for straight & level flight, hands off.	Trim pressure	Trim pressure < 6 bar	Trim pressure > 6 bar
		Assess high speed flight to 90% Vne at FI 10 (do not overspeed the engine, adjust propeller pitch as required - where fitted).	possible to reach Vne	ok	nok
		90% Vne assess turns left and right, and	Vibrations	ok	nok
		nose up recovery to cruise speed.	Yaw Control	ok	nok
			Nose up recovery	ok	nok
		Record the minimum aircraft speed at maximum engine-power in level flight (Vmin) at FL10. Throttle to max power - not exceed 5800rpm . Pitch adjustable prop - set to full fine	Vmin		
		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
		Dynamic stability: Trim the aircraft for level flight at 92Kts. Initiate a pitch disturbance downwards, stick free. There must be no undamped or divergent phugoid response.	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 Fl 15). Check yaw control left and right	Vertical descent with recovery	ok	nok
		Recovery to stable powered climb following an aborted glide approach (60kts, throttle closed for touchdown). During glide perform left and right turns, and comment on controllability.		ok	nok

Pilot s	Pilot signature: Date:					
-		is aircraft does/does not confo required to be released to ser		Conforms	Does not conform	
12	Vibrations	General comment on unusual or unacceptable vibration in any flight phase, at light and MTOW weights.	Vibrations	ok	nok	
11	Low weight	Low weight assessment - perform a climb test to FI 10 with only Pilot and 10-20ltr fuel (ideal pilot weight <85Kg)		ok	nok	
		Check the function of the Overdrive System to park the rotors in line with the aircraft	Overdrive System	ok	nok	
10	Landing	Using standard flight manual technique for landing, monitor any unusual handling or functioning characteristics of the machine including the rotor and rotor	Rotorbrake check	ok	nok	
			meter to QNH			
9	Radio	Check the radio transmit / receive function to EDVE at FI 20 Confirm absence of radio noise at a squelch setting of 3.	Radio strength 1	2 3	OK 4 5	
			Fuel Pressure Gauge	ok	nok	
			VSI	ok	nok	
			Manifold pressure	ok	nok	
			Fuel Gauge	ok	nok	
			Slip Indicator	ok	nok	
			Altimeter Rotor Tachometer	ok	nok	
		emphasis on the flight instruments		ok	nok	
		Instruments: Inspect all instruments and warning lights for correct indications with particular	Compass if calibrated +- 2°	ok	nok	
		or force, and their operation does not provide a distraction to the pilot.	Confirm throttle lever does not move itself	ok	nok	
8	Functional checks	Control: during flight check that all controls including trim systems operate without excessive friction	Control Forces	ok	nok	

remarks

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

Conforms

Does not conform