Flig	ght Te	est Re	port	F	light date:				C	
Pilot na	ame:				Location:		EDVM	-	au	
Gyro T	уре:	Cavalon			-	Serial No.			GTI	
Rotor:		8,4m		8,4m TOPF	þ	8,8m		8,6m TOPP		
Prop:		нтс		IVO		Woodcomp				
		eason: Com	plete stand	ard productio	on compliant	ce/permit rer	newal check	as per schedu	lle below.	
	est data	iaht 90ka Ad	ld weight to	reach MTO	Λ/		450kg		500kg	560kg
	loading fo				Empty weig	nht (Ka)	-30kg	k	-	0000
		1 1631								
P1 mas	SS		kg		P1 ballast ((nose)		k	g	
P2 mas	SS		kg		P2 ballast			k	g	
Fuel		Ltrs		kg	Other balla	st (nose)		k	g	
ΟΑΤ				°C	Operating I	nours		h		
Runway	v used:				Engine hrs	since new:		h		
-	t airfield				-			h		
		00 1-1-		- 1:		ours since ne	ew.	h		A I
Wind sp		< 20 kts	Teek	ok	Crosswind			C	k	Abort
No. 1	Test Preparation		Task			Result audible che	ck		ŀk	nok
				Check 2nd Fuel pump			UK .			nok
			Check doors lock properly				C	k	nok	
2	Engine run & ground checks		Run engin temperatu	e to normal o res.	operating	Oil pressure	e check:	Ç	reen	above / below
			Check ope controls	eration of eng	gine/fuel	Fuel pressu	ire check:	g	reen	above / below
			Idle speed not below				below 1600	rpm 1	600 - 1700rpm	above 1700rpm
			Record ma	ag drops @ 4	1000rpm	Mag1 off		<	:300rpm	>300rpm
			(Limits: 30	00 per coil)		Mag2 off		<	:300rpm	>300rpm
			(115 maxii	num differen	ice)	difference b	etween	<	:115rpm	>115rpm
						Oil temp ch	eck:	а	bove 50°C	above 130°C
						Water Tem	p check:	a	bove 50°C	above 120°C
			Confirm bi 5,000rpm.	akes hold at		Brakes hold	1?	с	k	nok
				peller pitch a Il fine - full co		significant p drop	orm	С	k	nok
			Check flying & trimming controls for free and correct movement, excess backlash and sense of operation.		Steering Ch	ieck:	С	k	nok	
3	3 Ground handling		Check for manoeuvring abilit i.e., turning radii, directional stability under braking.			Manoeuvrir	g	С	k	nok
			stability ur	der braking.		Turning rad	ius	c	k	nok
						Directional under braki		c	k	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
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
I		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
		912 ULS	500kg MTOW	>3,5 m/s OK	<3,5m/s nok
		914UL	500kg MTOW	>3,0 m/s OK	<3,0m/s nok
			560kg MTOW	>2,6 m/s OK	<2,6m/s nok
		915IS	560kg MTOW	>X,X m/s OK	<x,xm s<br="">nok</x,xm>
		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 at cruise speed level filight	tolerance +- 1cm	ok	nok

7	In Flight manoeuvring	The aircraft should possess an	roll	yes	no
		adequate range of control function to enable full control about its three axes at all flight speeds.	pitch	yes	no
		and and at an ingre operation	yaw	yes	no
		Check for tendency to enter pilot induced oscillation at 55Kts and 70Kts, stick free.	55Kts	yes	no
			70Kts	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 nose up recovery to cruise speed.	Vibrations	ok	nok
			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

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

remarks

Crossflight

Conforms

Does not conform

Date: