NAMIBIA CIVIL AVIATION AUTHORITY

Private Bag 12003 Windhoek Namibia | (Tel) +264 61 702 212 | Web: http://www.dca.com.na

FLIGHT PERFORMANCE RECORD FOR FIXED WING AIRCRAFT WITH SINGLE-ENGINE / MULTI-ENGINES

NOTES: * Please delete if not applicable or tick the appropriate box
(i) The application must be submitted to the Namibia Civil Aviation Authority.
(ii) Where the required information cannot be furnished in the space provided, the information must be submitted as a separate memorandum and attached thereto.

PILOT REMARKS				
THIS TEST FLIGHT WAS	**SATISFACTORY**		**UNSATISFACTORY**	

DETAILS OF AIRCRAFT MAINTENANCE ORGANIZATION (AMO)			
Name		AMO Number	
Address			
		Postal code	
FOR ATTENTION OF NCAA INSPECTOR / CERTIFICATION ENGINEER			

1.	**GENERAL**							
1.1	Aircraft registration marks	**V5**	-					
1.2	Date of test			1.3	Time of test			
1.4	Aerodrome			1.5	Pressure altitude of aerodrome			
1.6	Aircraft Designation							
1.7	Engine Designation							
1.8	Propeller Designation							
1.9	Ground Level Temperature				◦C			
1.10	Takeoff mass		Lb		kg			
1.11	Altimeter set to 1013.20 hPa (MBS)	**YES**		**NO**				
	If not, what is your setting & why?							
1.12	Engine hours since new or last complete overhaul:							
	Engine 1				hrs			
	Engine 2				hrs			
	Engine 3				hrs			
	Engine 4				hrs			
2.	**CLIMB TEST**							
	☐ An uninterrupted en-route climb of at least 5 minutes duration should be made in accordance with all parameters and requirements specified in the approved aircraft flight manual.							
	☐ Copy of the **relevant / table + aircraft flight manual's definition of engine limitation** shall be included with this submission							
	Included		Not Included		If not included – why?			
2.1	Best rate of climb speed (IAS)				MPH		Knots	
2.2	Mass at start of climb				Lb		Kg	
2.3	Anti-ice status				OFF		ON	
2.4	Pressurisation and air-conditioning status		OFF				ON	

2.2 RECORD

Time: Minutes & seconds	At every 30 seconds: Pressure Altitude (in ft)	At one minute intervals: Outside air temperature [OAT](O)		In case of TURBINE ENGINE, please complete the columns below					
				Power & torque		Engine rpm		Turbine outlet temperature (C)	
				In case of RECIPROCATING ENGINE, please complete the columns below					
				Manifold Pressure		Engine rpm		Exhaust gas temperature [EGTI	
At start		Aircraft mass at begin of climb in Lb		1.		1.		1.	
				2.		2.		2.	
After 0,30			°c	3.		3.		3.	
				4.		4.		4.	
After 1,00			°c	1.		1.		1.	
				2.		2.		2.	
After 1,30				3.		3.		3.	
				4.		4.		4.	
After 2,00				1.		1.		1.	
				2.		2.		2.	
After 2,30			°c	3.		3.		3.	
				4.		4.		4.	
After 3,00				1.		1.		1.	
				2.		2.		2.	
After 3,30			°c	3.		3.		3.	
				4.		4.		4.	
After 4,00				1.		1.		1.	
			°c	2.		2.		2.	
After 4,30				3.		3.		3.	
				4.		4.		4.	
After 5,00			°c	1.		1.		1.	
				2.		2.		2.	
		Aircraft mass at end of climb in		3.		3.		3.	

		Lb						
			4.		4.		4.	

3.	**HANDLING AND FUNCTIONING TEST**										
3.1	Is stall warning and stall recovery normal?	**YES**				**NO**					
3.2	What is the indicated stalling speed with throttle closed and flaps and landing gear retracted?			MPH			Knots				
	• Throttle closed:	**YES**				**NO**					
	• Flap position:										
	• Landing gear:	Down				Retracted					
3.3	At what speed and flap setting did the stick / pusher / shaker become operative?			MPH		Knots					
						Flap setting					
3.4	What is the altitude lost during stall and recovery?					feet					
3.5	Is propeller feathering and un-feathering satisfactory?	**YES**				**NO**					
3.6	Check all flying controls for friction, backlash, heaviness, trim and responsiveness	SAT				UNSAT					
3.7	Check all trimming devices for satisfactory and smooth operation	SAT		UN SAT			N/A				
3.8	Check flaps for satisfactory operation at the maximum speeds permitted by the flight manual or cockpit placards	SAT		UN SAT			N/A				
3.9	Check retractable landing gear for satisfactory operation	SAT		UNSAT			N/A				
3.10	Check throttle, mixture, propeller, carburettor, hot air and cooling gill controls for correct and smooth operation	SAT				UNSAT					
3.11	Check fuel system for satisfactory operation and correct functioning of fuel valves, cross-feed, fuel tank contents, gauges or indicators and to ensure that the system functions satisfactorily in accordance with the fuel management procedures prescribed for the aircraft type	SAT				UNSAT					
3.12	Check hydraulic and pneumatic systems for satisfactory operation	SAT		UN SAT			N/A				
3.13	Check operation of wheel brakes during taxing and landing	SAT		UNSAT			N/A				
3.14	Check electrical system for satisfactory operation of all services	SAT				UNSAT					
3.15	Check all instruments and indicators for correct functioning	SAT				UNSAT					
3.16	Check de-icing systems for satisfactory operation	SAT		UNSAT			N/A				
3.17	Check air conditioning system for satisfactory operation	SAT		UNSAT			N/A				
3.18	Check radio communication and navigational aid equipment for satisfactory operation	SAT				UNSAT					
3.19	Check any other installed equipment items or system not specifically mentioned above for satisfactory operation. **Specify all installed modifications / repairs with their status:**	SAT		UNSAT			N/A				

4.	**CERTIFICATION**
	I, the undersigned *(full name in block letters)*
	hereby certify that the above-mentioned aircraft has been test flown and that the data presented is completed and accurate.

SIGNATURE OF TEST PILOT	**NAME IN BLOCK LETTERS**	**DATE**

Pilot license number		Contact number	
Category and rating			

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1.11	Altimeter set to 1013.20 hPa (MBS)	**YES**		**NO**				
	If not, what is your setting & why?							
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	Included		Not Included		If not included – why?			
2.1	Best rate of climb speed (IAS)				MPH		Knots	
2.2	Mass at start of climb				Lb		Kg	
2.3	Anti-ice status				OFF		ON	
2.4	Pressurisation and air-conditioning status		OFF				ON	
2.2	**RECORD**							

				In case of TURBINE ENGINE, please complete the columns below							
Time: Minutes & seconds	At every 30 seconds: Pressure Altitude (in ft)	At one minute intervals: Outside air temperature [OAT](O)		Power & torque		Engine rpm		Turbine outlet temperature (C)			
				In case of RECIPROCATING ENGINE, please complete the columns below							
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				2.		2.		2.			
After 4,30				3.		3.		3.			
				4.		4.		4.			
After 5,00			***°c***	1.		1.		1.			
				2.		2.		2.			
		Aircraft mass at end of climb in Lb		3.		3.		3.			
				4.		4.		4.			

3.	**HANDLING AND FUNCTIONING TEST**

3.1	Is stall warning and stall recovery normal?	**YES**				**NO**					
3.2	What is the indicated stalling speed with throttle closed and flaps and landing gear retracted?			MPH				Knots			
	• Throttle closed:	**YES**				**NO**					
	• Flap position:										
	• Landing gear:	Down				Retracted					
3.3	At what speed and flap setting did the stick / pusher / shaker become operative?			MPH		Knots					
						Flap setting					
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3.5	Is propeller feathering and un-feathering satisfactory?	**YES**				**NO**					
3.6	Check all flying controls for friction, backlash, heaviness, trim and responsiveness	SAT				UNSAT					
3.7	Check all trimming devices for satisfactory and smooth operation	SAT		UN SAT			N/A				
3.8	Check flaps for satisfactory operation at the maximum speeds permitted by the flight manual or cockpit placards	SAT		UN SAT			N/A				
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3.14	Check electrical system for satisfactory operation of all services	SAT				UNSAT					
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3.16	Check de-icing systems for satisfactory operation	SAT		UNSAT			N/A				
3.17	Check air conditioning system for satisfactory operation	SAT		UNSAT			N/A				
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