DHV TESTREPORT LTF 2009

MUSE 4 - 24

Inflation/take-off

Type designation Muse 4 - 24

Type test reference no DHV GS-01-2135-15

Holder of certification MAC Para Technology Itd

Manufacturer MAC Para Technology Itd

Classification A

Winch towing Yes

Number of seats min / max 1/1

Accelerator Yes

Trimmers No.

BEHAVIOUR AT MIN WEIGHT IN FLIGHT (67KG)

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (85KG)



Beni Stocker

Smooth, easy and constant rising

Rising behaviour Smooth, easy and constant rising Special take off technique required No

Landing Special landing technique required No

No

Speeds in straight flight A Trim speed more than 30 km/h Yes

Yes Yes

Speed range using the controls larger than 10 Yes km/h

Less than 25 km/h

Symmetric control pressure Increasing Symmetric control travel Greater than 55 cm

Greater than 60 cm

Pitch stability exiting accelerated flight

Dive forward angle on exit Dive forward less than 30° Collapse occurs No

Oscillations Reducing

Minimum speed Less than 25 km/h

Dive forward less than 30° Nο

Pitch stability operating controls during

Α

accelerated flight

Collapse occurs No

Roll stability and damping

Stability in gentle spirals A

Reducing

Tendency to return to straight flight Spontaneous exit

Spontaneous exit

Behaviour in a steeply banked turn 🔔 🕒 🗛



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Sink rate after two turns Up to 12 m/s

Up to 12 m/s

Symmetric front collapse A

Entry Rocking back less than 45°

Recovery Spontaneous in less than 3 s

Dive forward angle on exit Dive forward 0° to 30° Change of course Keeping course

Cascade occurs No

Rocking back less than 45° Spontaneous in less than 3 s Dive forward 0° to 30° Keeping course

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Able to keep course Yes Able to keep course Yes			
Able to keep course Yes Able to keep course Yes			
Able to keep course Yes Yes	Directional control with a maintained	A	A
·	<u>asymmetric collapse</u>		
180° turn away from the collapsed side possible Yes Yes	Able to keep course	Yes	Yes
	180° turn away from the collapsed side possible	Yes	Yes

in 10 s

Amount of control range between turn and stall or spin		More than 50 % of the symmetric control travel
Trim speed spin tendency	A	A
Spin occurs	<u> </u>	No
Low speed spin tendency	A	A
Spin occurs	No	No
Recovery from a developed spin	A	A
Spin rotation angle after release	Stops spinning in less than 90°	Stops spinning in less than 90°
Cascade occurs	No	No
B-line stall	A	A
	1	<u> </u>
Change of course before release Behaviour before release	Remains stable with straight span	Changing course less than 45° Remains stable with straight span
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	•	Dive forward 0° to 30°
Cascade occurs		No
Big ears	٨	A
i 	In the state of th	<u> </u>
• •	Dedicated controls	Dedicated controls
Behaviour during big ears	Spontaneous in less than 3 s	Stable flight Spontaneous in less than 3 s
-	•	•
Recovery Dive forward angle on exit	•	Dive forward 0° to 30°
-	•	•
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Dive forward angle on exit	Dive forward 0° to 30° A Dedicated controls	Dive forward 0° to 30°
Dive forward angle on exit Big ears in accelerated flight Entry procedure Behaviour during big ears	Dive forward 0° to 30° A Dedicated controls	Dive forward 0° to 30° A Dedicated controls
Dive forward angle on exit Big ears in accelerated flight Entry procedure Behaviour during big ears	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s	Dive forward 0° to 30° A Dedicated controls Stable flight
Dive forward angle on exit Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s
Dive forward angle on exit Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°
Dive forward angle on exit Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight
Dive forward angle on exit Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Spontaneous exit	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight
Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears Behaviour exiting a steep spiral Tendency to return to straight flight	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Spontaneous exit Less than 720°, spontaneous recovery	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Spontaneous exit
Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears Behaviour exiting a steep spiral Tendency to return to straight flight Turn angle to recover normal flight	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Spontaneous exit Less than 720°, spontaneous recovery	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Spontaneous exit Less than 720°, spontaneous recovery
Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears Behaviour exiting a steep spiral Tendency to return to straight flight Turn angle to recover normal flight Sink rate when evaluating spiral stability [m/s]	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Spontaneous exit Less than 720°, spontaneous recovery 14	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Spontaneous exit Less than 720°, spontaneous recovery 14
Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears Behaviour exiting a steep spiral Tendency to return to straight flight Turn angle to recover normal flight Sink rate when evaluating spiral stability [m/s]	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Spontaneous exit Less than 720°, spontaneous recovery 14 A Yes	Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Spontaneous exit Less than 720°, spontaneous recovery 14

Any other flight procedure and/or configuration described in the user's manual

No other flight procedure or configuration described in the user's manual