DHV TESTREPORT LTF 2009

MUSE 4 - 26

Inflation/take-off

Type designation Muse 4 - 26

Type test reference no DHV GS-01-2134-15

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

Test pilots

Trimmers No.

BEHAVIOUR AT MIN WEIGHT IN FLIGHT (75KG)

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (95KG)



Beni Stocker **Harald Buntz**

Α Rising behaviour Smooth, easy and constant rising Smooth, easy and constant rising

Special take off technique required No

Special landing technique required No

Speeds in straight flight A Α

Trim speed more than 30 km/h Yes Speed range using the controls larger than 10 Yes Yes km/h

Minimum speed Less than 25 km/h Less than 25 km/h

Control movement A

Symmetric control pressure Increasing Increasing Symmetric control travel Greater than 55 cm Greater than 60 cm

Pitch stability exiting accelerated flight A

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

Pitch stability operating controls during Α accelerated flight

Collapse occurs No Nο

Roll stability and damping A İA

Oscillations Reducing Reducing

Stability in gentle spirals A Α

Tendency to return to straight flight Spontaneous exit

Behaviour in a steeply banked turn 🔔 🕒 🗛 Sink rate after two turns Up to 12 m/s Up to 12 m/s

Symmetric front collapse 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 Nο

Spontaneous exit

Symmetric front collapse in accelerated flight	A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
•	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 0° to 30°
_	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	-	No
Exiting deep stall (parachutal stall)	¦A	¦A
Deep stall achieved	Yes	Yes
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Change of course	Changing course less than 45°	Changing course less than 45°
Cascade occurs	No	No
High angle of attack recovery	A	A
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs		No
Recovery from a developed full stall	A	A
Dive forward angle on exit	: Dive forward 0° to 30°	Dive forward 0° to 30°
Collapse	No collapse	No collapse
Cascade occurs (other than collapses)	No	No
Rocking back	Less than 45°	Less than 45°
Line tension	Most lines tight	Most lines tight
Asymmetric collapse 45-50%	A	A
Change of course until re-inflation	±	Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 0° to 15°
_	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		Less than 360°
Collapse on the opposite side occurs		No
Twist occurs		No
	No	No
Cascade occurs		
		i a
Asymmetric collapse 70-75%	<u> </u> A	 A
Asymmetric collapse 70-75% Change of course until re-inflation	A Less than 90°	Less than 90°
Asymmetric collapse 70-75% Change of course until re-inflation Maximum dive forward or roll angle	A Less than 90° Dive or roll angle 15° to 45°	Less than 90° Dive or roll angle 15° to 45°
Asymmetric collapse 70-75% Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour	A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation	Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation
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Amount of control range between turn and stall or spin		More than 50 % of the symmetric control travel
Trim speed spin tendency	A	А
Spin occurs	: No	No
Low speed spin tendency	Α	A
Spin occurs	s 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	s No	No
<u>B-line stall</u>	A	A
Change of course before release		Changing course less than 45°
	Remains stable with straight span	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	3 NO	No
Big ears	A	A
Entry procedure	Dedicated controls	Dedicated controls
Behaviour during big ears	Stable flight	Stable flight
•	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Big ears in accelerated flight	A	ļ _A
Entry procedure	Dedicated controls	Dedicated controls
Behaviour during big ears	Stable flight	Stable flight
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	t Dive forward 0° to 30°	Dive forward 0° to 30°
Behaviour immediately after releasing the accelerator while maintaining big ears		Stable flight
Behaviour exiting a steep spiral	A	A
Tendency to return to straight flight	: Spontaneous exit	Spontaneous exit
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Less than 720°, spontaneous recovery
Sink rate when evaluating spiral stability [m/s]	14	14
Alternative means of directional control	A	İA
180° turn achievable in 20 s	Yes	Yes
Stall or spin occurs	s No	No

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

by jursaconsulting