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DHV TESTREPORT EN926-2:2014

GIN OSPREY 34

|                           |                                  |
|---------------------------|----------------------------------|
| Type designation          | GIN Osprey 34                    |
| Type test reference no    | DHV GS-01-2263-17                |
| Holder of certification   | <a href="#">GIN Gliders Inc.</a> |
| Manufacturer              | <a href="#">GIN Gliders Inc.</a> |
| Classification            | B                                |
| Winch towing              | Yes                              |
| Number of seats min / max | 1 / 2                            |
| Accelerator               | No                               |
| Trimmers                  | Yes                              |



BEHAVIOUR AT MIN WEIGHT IN FLIGHT (100KG)

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (210KG)

Test pilots



Reiner Brunn



Sebastian Mackrodt

Expert

Harald Buntz

|                                                                |                                                                        |                                  |
|----------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------|
| Inflation / take-off                                           | A                                                                      | A                                |
| Rising behaviour                                               | Smooth, easy and constant rising                                       | Smooth, easy and constant rising |
| Special take off technique required                            | No                                                                     | No                               |
| Landing                                                        | A                                                                      | A                                |
| Special landing technique required                             | No                                                                     | No                               |
| Speeds in straight flight                                      | A                                                                      | A                                |
| Trim speed more than 30 km/h                                   | Yes                                                                    | Yes                              |
| Speed range using the controls larger than 10 km/h             | Yes                                                                    | Yes                              |
| Minimum speed                                                  | Less than 25 km/h                                                      | Less than 25 km/h                |
| Control movement                                               | A                                                                      | A                                |
| Symmetric control pressure                                     | Increasing                                                             | Increasing                       |
| Symmetric control travel                                       | Greater than 60 cm                                                     | Greater than 65 cm               |
| Pitch stability exiting accelerated flight                     | Not carried out because the glider is not equipped with an accelerator |                                  |
| Pitch stability operating controls during accelerated flight   | Not carried out because the glider is not equipped with an accelerator |                                  |
| Roll stability and damping                                     | A                                                                      | A                                |
| Oscillations                                                   | Reducing                                                               | Reducing                         |
| Stability in gentle spirals                                    | A                                                                      | A                                |
| Tendency to return to straight flight                          | Spontaneous exit                                                       | Spontaneous exit                 |
| en : Verhalten beim Verlassen einer vollständigen Steilspirale | A                                                                      | B                                |
| en : Erstes Ansprechen des Gleitschirms (die                   | en : unmittelbare Verringerung der                                     | en : keine unmittelbare Reaktion |

|                                                                                          |  |                                                                                                    |
|------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------|
| <b>ersten 180°)</b>                                                                      |  | Drehgeschwindigkeit                                                                                |
| <b>Tendency to return to straight flight</b>                                             |  | en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit abnehmend)                  |
| <b>Turn angle to recover normal flight</b>                                               |  | Less than 720°, spontaneous recovery                                                               |
|                                                                                          |  | Less than 720°, spontaneous recovery                                                               |
| <b>Symmetric front collapse</b>                                                          |  | <b>A</b>                                                                                           |
| <b>Entry</b>                                                                             |  | Rocking back less than 45°                                                                         |
| <b>Recovery</b>                                                                          |  | Spontaneous in less than 3 s                                                                       |
| <b>Dive forward angle on exit</b>                                                        |  | Dive forward 0° to 30°                                                                             |
| <b>Change of course</b>                                                                  |  | Keeping course                                                                                     |
| <b>Cascade occurs</b>                                                                    |  | No                                                                                                 |
| <b>en : Faltleinen wurden benutzt</b>                                                    |  | no                                                                                                 |
| <b>en : Symmetrischer Frontklapper mindestens 50% Flügeltiefe</b>                        |  | <b>A</b>                                                                                           |
| <b>Entry</b>                                                                             |  | Rocking back less than 45°                                                                         |
| <b>Recovery</b>                                                                          |  | Spontaneous in less than 3 s                                                                       |
| <b>Dive forward angle on exit</b>                                                        |  | Dive forward 0° to 30°                                                                             |
| <b>Change of course</b>                                                                  |  | Keeping course                                                                                     |
| <b>Cascade occurs</b>                                                                    |  | No                                                                                                 |
| <b>en : Faltleinen wurden benutzt</b>                                                    |  | no                                                                                                 |
| <b>en : Symmetrischer Frontklapper im beschleunigten Flug mindestens 50% Flügeltiefe</b> |  |                                                                                                    |
| Not carried out because the glider is not equipped with an accelerator                   |  |                                                                                                    |
| <b>Exiting deep stall (parachutal stall)</b>                                             |  | <b>A</b>                                                                                           |
| <b>Deep stall achieved</b>                                                               |  | Yes                                                                                                |
| <b>Recovery</b>                                                                          |  | No                                                                                                 |
| <b>Recovery</b>                                                                          |  | Spontaneous in less than 3 s                                                                       |
| <b>Dive forward angle on exit</b>                                                        |  | Dive forward 0° to 30°                                                                             |
| <b>Change of course</b>                                                                  |  | Changing course less than 45°                                                                      |
| <b>Cascade occurs</b>                                                                    |  | No                                                                                                 |
| <b>High angle of attack recovery</b>                                                     |  | <b>A</b>                                                                                           |
| <b>Recovery</b>                                                                          |  | Spontaneous in less than 3 s                                                                       |
| <b>Cascade occurs</b>                                                                    |  | No                                                                                                 |
| <b>Recovery from a developed full stall</b>                                              |  | <b>A</b>                                                                                           |
| <b>Dive forward angle on exit</b>                                                        |  | Dive forward 0° to 30°                                                                             |
| <b>Collapse</b>                                                                          |  | No collapse                                                                                        |
| <b>Cascade occurs (other than collapses)</b>                                             |  | No                                                                                                 |
| <b>Rocking back</b>                                                                      |  | Less than 45°                                                                                      |
| <b>Line tension</b>                                                                      |  | Most lines tight                                                                                   |
| <b>en : Kleiner einseitiger Klapper</b>                                                  |  | <b>A</b>                                                                                           |
| <b>Change of course until re-inflation</b>                                               |  | Less than 90°                                                                                      |
| <b>Maximum dive forward or roll angle</b>                                                |  | Dive or roll angle 0° to 15°                                                                       |
| <b>Re-inflation behaviour</b>                                                            |  | Spontaneous re-inflation                                                                           |
| <b>Total change of course</b>                                                            |  | Less than 360°                                                                                     |
| <b>Collapse on the opposite side occurs</b>                                              |  | en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung) |
| <b>Twist occurs</b>                                                                      |  | No                                                                                                 |
| <b>Cascade occurs</b>                                                                    |  | No                                                                                                 |
| <b>en : Faltleinen wurden benutzt</b>                                                    |  | no                                                                                                 |
| <b>en : Großer einseitiger Klapper</b>                                                   |  | <b>B</b>                                                                                           |
| <b>Change of course until re-inflation</b>                                               |  | 90° to 180°                                                                                        |
| <b>Maximum dive forward or roll angle</b>                                                |  | Dive or roll angle 0° to 15°                                                                       |
| <b>Re-inflation behaviour</b>                                                            |  | Spontaneous re-inflation                                                                           |
| <b>Total change of course</b>                                                            |  | Less than 360°                                                                                     |
| <b>Collapse on the opposite side occurs</b>                                              |  | en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung) |
| <b>Twist occurs</b>                                                                      |  | No                                                                                                 |
| <b>Cascade occurs</b>                                                                    |  | No                                                                                                 |
| <b>en : Faltleinen wurden benutzt</b>                                                    |  | no                                                                                                 |
| <b>en : Kleiner einseitiger Klapper im beschleunigten Flug</b>                           |  |                                                                                                    |
| Not carried out because the glider is not equipped with an accelerator                   |  |                                                                                                    |
| <b>en : Großer einseitiger Klapper im beschleunigten Flug</b>                            |  |                                                                                                    |
| Not carried out because the glider is not equipped with an accelerator                   |  |                                                                                                    |
| <b>Directional control with a maintained asymmetric collapse</b>                         |  | <b>A</b>                                                                                           |
| <b>Able to keep course</b>                                                               |  | Yes                                                                                                |
| <b>180° turn away from the collapsed side possible in 10 s</b>                           |  | Yes                                                                                                |
| <b>Amount of control range between turn and stall or spin</b>                            |  | More than 50 % of the symmetric control travel                                                     |
|                                                                                          |  | More than 50 % of the symmetric control travel                                                     |

|                                                                                |                                   |                                   |
|--------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|
| Trim speed spin tendency                                                       | A                                 | A                                 |
| Spin occurs                                                                    | No                                | 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                                 |
| Change of course before release                                                | Changing course less than 45°     | Changing course less than 45°     |
| Behaviour before release                                                       | Remains stable with straight span | Remains stable with straight span |
| 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°            |
| Cascade occurs                                                                 | No                                | No                                |
| Big ears                                                                       | A                                 | B                                 |
| Entry procedure                                                                | Dedicated controls                | Dedicated controls                |
| Behaviour during big ears                                                      | Stable flight                     | Stable flight                     |
| Recovery                                                                       | Spontaneous in less than 3 s      | Spontaneous in 3 s to 5 s         |
| Dive forward angle on exit                                                     | Dive forward 0° to 30°            | Dive forward 0° to 30°            |
| Big ears in accelerated flight                                                 |                                   |                                   |
| Not carried out because the glider is not equipped with an accelerator         |                                   |                                   |
| Alternative means of directional control                                       | A                                 | A                                 |
| 180° turn achievable in 20 s                                                   | Yes                               | Yes                               |
| Stall or spin occurs                                                           | 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      |                                   |                                   |