

APH: **589.7**

CDL: **8.324**

GPH: **664.2**

CertNo: **None**

BOAT

Class **Winner 1010 x 1.80**
Designer **v.d.Stadt**
Builder **Winner**
Age date **04/2008**
Series date **04/2005**
Offset file **WINNER1010.off**
Data file

HULL

Length Overall **10.129 m**
Maximum Beam **3.320 m**
Draft **1.785 m**
Displacement **4,636 kg**
DLR **6.9400**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.280%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.382m**

CREW

Maximum weight **568 kg**
Minimum weight **426 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

| | Measured | Rated |
|-----------------|--------------|--------------|
| Mainsail | 31.10 | 31.58 |
| Headsail Luffed | 25.20 | 25.20 |
| Headsail Flying | | |
| Symmetric | 70.33 | 70.33 |
| Asymmetric | 60.80 | 60.80 |

(All asymmetric spinnakers with SHW/SFL > 85%)

STORM SAIL AREAS (m²)

Trysail **9.55**
Storm Jib **8.26**
Heavy Weather Jib **22.30**

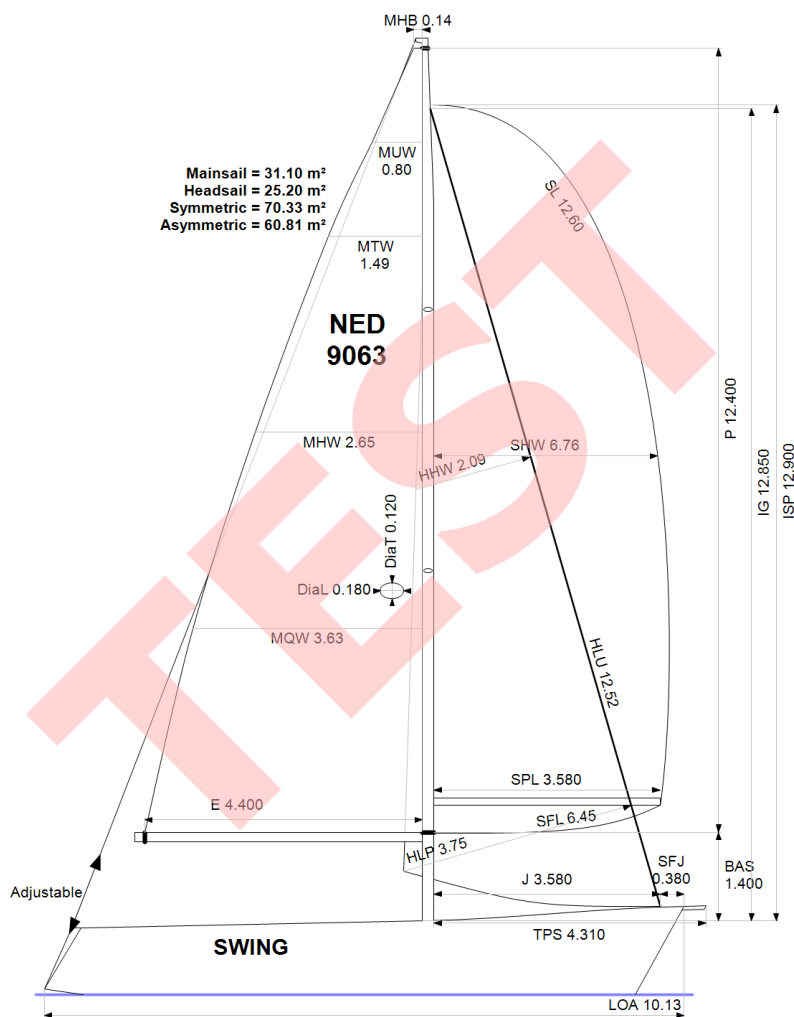
SAIL LIMITS

Headsails **5**
Spinnakers **4** * Asymmetric SHALL NOT be tacked on the pole

STABILITY

Righting Moment **N/A**
Stability Index **N/A**

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.



Rated boat velocities in knots

| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
|---------------|--------|--------|--------|--------|--------|--------|--------|
| Beat Angles | 44.2° | 42.3° | 40.8° | 39.4° | 38.8° | 38.7° | 40.0° |
| Beat VMG | 3.16 | 3.85 | 4.37 | 4.72 | 4.87 | 4.93 | 4.91 |
| 52° | 4.87 | 5.79 | 6.39 | 6.74 | 6.92 | 6.99 | 7.04 |
| 60° | 5.15 | 6.05 | 6.59 | 6.91 | 7.10 | 7.20 | 7.27 |
| 75° | 5.33 | 6.23 | 6.74 | 7.06 | 7.29 | 7.47 | 7.67 |
| 90° | 5.31 | 6.34 | 6.93 | 7.28 | 7.52 | 7.65 | 7.97 |
| 110° | 5.32 | 6.40 | 7.00 | 7.39 | 7.75 | 8.08 | 8.62 |
| 120° | 5.15 | 6.24 | 6.91 | 7.32 | 7.69 | 8.06 | 8.86 |
| 135° | 4.63 | 5.74 | 6.55 | 7.05 | 7.43 | 7.80 | 8.58 |
| 150° | 3.91 | 5.00 | 5.92 | 6.62 | 7.07 | 7.42 | 8.12 |
| Run VMG | 3.39 | 4.33 | 5.14 | 5.84 | 6.44 | 6.92 | 7.59 |
| Gybe Angles | 144.8° | 149.6° | 153.2° | 159.2° | 171.8° | 177.2° | 179.0° |

| Time Allowances in secs/NM | | | | | | | |
|----------------------------|--------|-------|-------|-------|-------|-------|-------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 1140.8 | 934.6 | 823.9 | 762.6 | 739.5 | 730.9 | 733.0 |
| 52° | 739.9 | 621.9 | 563.6 | 534.0 | 520.3 | 514.9 | 511.7 |
| 60° | 699.0 | 595.0 | 546.3 | 521.2 | 507.1 | 500.2 | 495.2 |
| 75° | 675.4 | 578.2 | 533.8 | 510.3 | 493.8 | 481.6 | 469.5 |
| 90° | 678.3 | 567.9 | 519.5 | 494.5 | 478.8 | 470.5 | 451.4 |
| 110° | 676.4 | 562.6 | 514.3 | 487.0 | 464.7 | 445.6 | 417.8 |
| 120° | 698.7 | 576.7 | 521.2 | 491.8 | 468.0 | 446.6 | 406.4 |
| 135° | 777.7 | 627.7 | 549.6 | 510.6 | 484.7 | 461.7 | 419.4 |
| 150° | 920.8 | 720.2 | 608.4 | 544.1 | 509.4 | 485.2 | 443.5 |
| Run VMG | 1063.2 | 831.7 | 700.4 | 616.5 | 558.8 | 520.5 | 474.2 |
| Selected Courses | | | | | | | |
| Windward / Leeward | 1102.0 | 883.1 | 762.2 | 689.5 | 649.2 | 625.7 | 603.6 |
| All purpose | 845.9 | 691.2 | 611.5 | 566.6 | 541.3 | 525.5 | 504.8 |

| Single Number Scoring Options | | |
|-------------------------------|------------------|--------------|
| Course | Time On Distance | Time On Time |
| Windward / Leeward | 725.3 | 0.8273 |
| All purpose | 589.7 | 1.0174 |

Custom scoring options for Netherlands

| Scoring Option | Time On Time |
|--------------------------------------------|--------------|
| Triple Number Coastal/Long Distance Low | 0.7807 |
| Triple Number Coastal/Long Distance Medium | 1.0246 |
| Triple Number Coastal/Long Distance High | 1.1501 |
| Triple Number Windward/Leeward Low | 0.6045 |
| Triple Number Windward/Leeward Medium | 0.8336 |
| Triple Number Windward/Leeward High | 0.9626 |
| Coastal/Long Distance | 0.9342 |
| Predominantly Upwind | 0.9383 |
| Predominantly Downwind | 1.0036 |

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

| | | | | | |
|-------------------|---------------------------|--------------|---------------|--------------------------------|---------------|
| Class | Winner 1010 x 1.80 | LOA | 10.129 | VCGD | -0.002 |
| Measurement | 10/07/2019 | Max. Beam | 3.320 | VCGM | 0.065 |
| HIN | | Draft | 1.785 | RM Rated (kg-m) | 113.1 |
| Plan review | | Displacement | 4,636 | Limit of positive stability(°) | N/A |
| Hull construction | Solid | Wetted area | 22.84 | Stability Index | N/A |
| Carbon Rudder | No | IMS L | 8.978 | | |
| Light stanchions | No | LSM0 | 8.741 | | |
| Trim tab | No | Acc. length | 10.129 | | |
| | | Sink (kg/mm) | 17.51 | | |

PROPELLER

| | | | | |
|-----------------|-------------------------|------|---------------|---------|
| Propeller Type | Folding 2 blades | | | |
| Installation | Strut | PRD | 0.382 | EDL ST3 |
| Twin screw | No | PBW | | ST1 ST4 |
| Hydro generator | No | PIPA | 0.0006 | ST2 ST5 |

RIG

| | | | | | |
|----------------------|--------------------|------|---------------|-----|--------------|
| Forestay tension | Aft | P | 12.400 | E | 4.400 |
| Inner stay | None Fitted | IG | 12.850 | J | 3.580 |
| Carbon mast | No | ISP | 12.900 | BAS | 1.400 |
| Headsail furler | No | MDT1 | 0.120 | FSD | Foil |
| Mainsail furler | No | MDL1 | 0.180 | SFJ | 0.380 |
| Articulated bowsprit | No | MDT2 | | SPL | 3.580 |
| Non-circular rigging | No | MDL2 | | WPL | |
| Fiber rigging | No | TL | Taper | TPS | 4.310 |
| Runners/Checkstays | 0 | MW | | BD | |
| Spreaders | 2 | GO | | MWT | |
| Rotating mast | No | | | MCG | |

FLOTATION AND STABILITY

| | | | | | |
|--------------------|---------------------|-------|---------------|-------|--------------|
| Calculation method | RM estimated | SFFP | 0.402 | SAFP | 9.545 |
| Flotation Date | 13/04/2022 | FFM | 1.368 | FAM | 1.001 |
| Measurer | | FF | 1.379 | FA | 1.007 |
| Comment | | LCFcl | 5.747 | LCFsh | 5.970 |
| | | SG | 1.0000 | HBI | 1.170 |

INVENTORY

| OTHER ITEMS | Id | Kind | Description | Weight | LCG | VCG |
|-------------|-----|------|----------------------------|-----------|-------------|-------------|
| | SaS | | Deductible Sailor Services | 22 | 5.10 | 0.00 |
| | | | <i>Total deductible</i> | 22 | 5.10 | 0.00 |



MAINSAIL

| <i>Id</i> | <i>MHB</i> | <i>MUW</i> | <i>MTW</i> | <i>MHW</i> | <i>MQW</i> | <i>Area</i> | <i>Meas.Date</i> | <i>Comment</i> |
|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------------|-----------------------|
| 01 | 0.14 | 0.80 | 1.49 | 2.65 | 3.63 | 31.10 | 10/07/2019 | |

HEADSAIL

| <i>Id</i> | <i>HHB</i> | <i>HUW</i> | <i>HTW</i> | <i>HHW</i> | <i>HQW</i> | <i>HLP</i> | <i>HLU</i> | <i>Btn</i> | <i>Flying FT</i> | <i>Area</i> | <i>Meas.Date</i> | <i>Comment</i> |
|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|--------------------|-------------------------|-----------------------|
| 2022 | 0.07 | 0.61 | 1.14 | 2.09 | 2.97 | 3.75 | 12.52 | Yes | No | 25.20 | | |
| 01 | 0.11 | 0.53 | 0.98 | 1.90 | 2.82 | 3.72 | 12.52 | Yes | No | 23.76 | 10/07/2019 | |

SYMMETRIC SPINNAKER

| <i>Id</i> | <i>SLU</i> | <i>SLE</i> | <i>SL</i> | <i>SHW</i> | <i>SFL</i> | <i>Area</i> | <i>Meas.Date</i> | <i>Comment</i> |
|------------------|-------------------|-------------------|------------------|-------------------|-------------------|--------------------|-------------------------|-----------------------|
| 2022 | 12.60 | 12.60 | 12.60 | 6.76 | 6.45 | 70.33 | | |

ASYMMETRIC SPINNAKER

| <i>Id</i> | <i>SLU</i> | <i>SLE</i> | <i>SL</i> | <i>SHW</i> | <i>SFL</i> | <i>Ratio</i> | <i>Area</i> | <i>Meas.Date</i> | <i>Comment</i> |
|------------------|-------------------|-------------------|------------------|-------------------|-------------------|---------------------|--------------------|-------------------------|-----------------------|
| 01 | 13.15 | 11.82 | 12.49 | 5.75 | 6.22 | 92% | 60.80 | 10/07/2019 | |