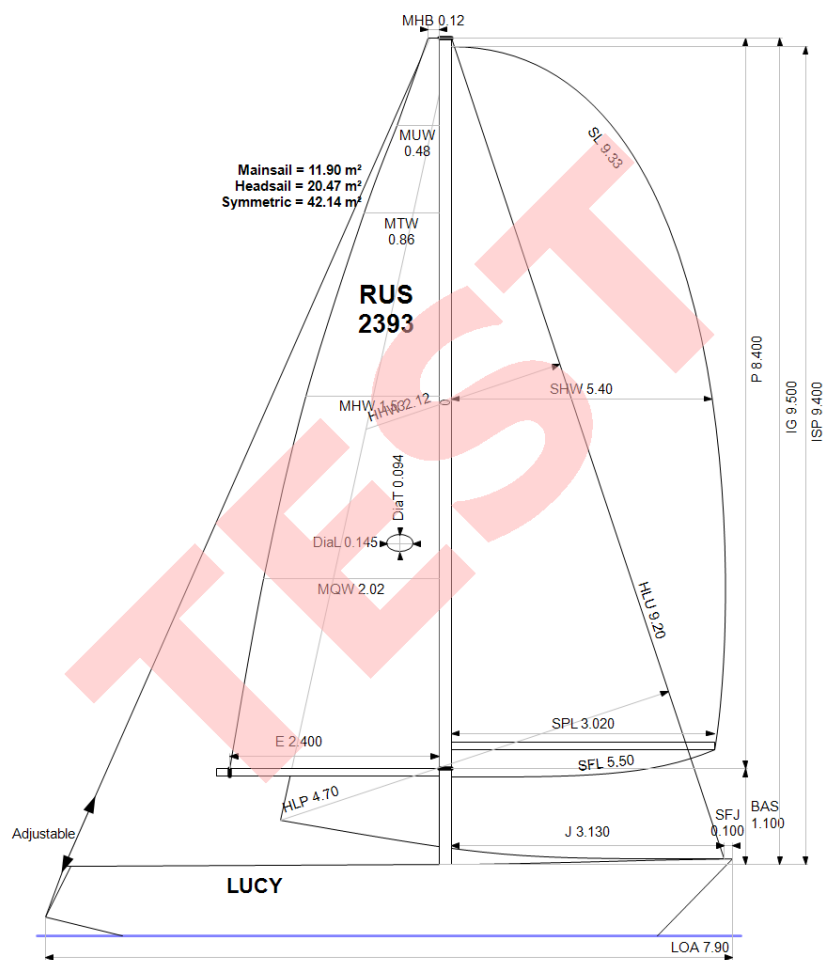


APH: **707.7** CDL: **5.682**

GPH: **797.8** CertNo: **2393.1**



BOAT
Class **Albin 79**
Designer **MAGNUSSON ROLF**
Builder **ALBIN MARINE**
Age date **01.1976**
Series date **01.1974**
Offset file **GR0048.BOF**
Data file **RU2393_Lucy**

HULL
Length Overall **7.900 m**
Maximum Beam **2.672 m**
Draft **1.428 m**
Displacement **2 340 kg**
DLR **9.7615**
IMS Division **Performance**
Dynamic Allowance **0.567%**
Age Allowance **0.487%**

PROPELLER
Installation **Shaft exposed**
Type **Folding 2 blades**
Diameter **0.330m**

CREW
Maximum weight **349 kg**
Minimum weight **262 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

| | Measured | Rated |
|-----------------|----------|-------|
| Mainsail | 11.90 | 12.04 |
| Headsail Luffed | 20.47 | 20.47 |
| Headsail Flying | | |
| Symmetric | 42.14 | 42.14 |
| Asymmetric | | |

STORM SAIL AREAS (m²)

| | |
|-------------------|-------|
| Trysail | 3.53 |
| Storm Jib | 4.52 |
| Heavy Weather Jib | 12.19 |

SAIL LIMITS

| | |
|------------|---------------------------|
| Headsails | 5 * Woven polyester sails |
| Spinnakers | 4 |

STABILITY

| | |
|-----------------|-----------|
| Righting Moment | 30.8 kg·m |
| 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 | 43.5° | 42.0° | 42.6° | 41.7° | 40.5° | 40.0° | 40.5° |
| Beat VMG | 2.57 | 3.09 | 3.48 | 3.83 | 4.03 | 4.11 | 4.12 |
| 52° | 3.95 | 4.68 | 5.27 | 5.60 | 5.78 | 5.87 | 5.91 |
| 60° | 4.17 | 4.96 | 5.49 | 5.76 | 5.93 | 6.04 | 6.11 |
| 75° | 4.32 | 5.14 | 5.64 | 5.89 | 6.08 | 6.24 | 6.46 |
| 90° | 4.31 | 5.26 | 5.80 | 6.08 | 6.22 | 6.33 | 6.68 |
| 110° | 4.42 | 5.38 | 5.90 | 6.21 | 6.50 | 6.75 | 7.02 |
| 120° | 4.30 | 5.26 | 5.83 | 6.16 | 6.46 | 6.77 | 7.24 |
| 135° | 3.91 | 4.82 | 5.58 | 5.97 | 6.27 | 6.58 | 7.17 |
| 150° | 3.40 | 4.28 | 5.07 | 5.67 | 6.00 | 6.28 | 6.85 |
| Run VMG | 2.95 | 3.72 | 4.40 | 5.04 | 5.55 | 5.90 | 6.43 |
| Gybe Angles | 148.7° | 152.9° | 152.9° | 161.0° | 174.8° | 179.0° | 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 | 1399.2 | 1166.4 | 1033.2 | 940.0 | 892.8 | 875.5 | 874.7 |
| 52° | 911.9 | 768.6 | 683.4 | 642.8 | 622.7 | 613.2 | 609.5 |
| 60° | 863.3 | 726.4 | 656.0 | 625.3 | 607.4 | 595.9 | 589.0 |
| 75° | 833.1 | 700.7 | 637.9 | 610.9 | 592.3 | 576.8 | 556.9 |
| 90° | 835.9 | 684.8 | 620.2 | 592.6 | 578.4 | 569.1 | 539.0 |
| 110° | 815.0 | 668.9 | 610.6 | 580.1 | 553.9 | 533.0 | 512.6 |
| 120° | 836.9 | 684.2 | 617.1 | 584.9 | 557.2 | 532.0 | 497.3 |
| 135° | 921.1 | 747.7 | 644.8 | 603.1 | 574.5 | 547.2 | 502.1 |
| 150° | 1058.1 | 841.3 | 710.3 | 634.8 | 599.9 | 573.5 | 525.3 |
| Run VMG | 1221.7 | 968.9 | 818.3 | 714.6 | 648.3 | 609.9 | 559.8 |
| Selected Courses | | | | | | | |
| Windward / Leeward | 1310.5 | 1067.6 | 925.7 | 827.3 | 770.5 | 742.7 | 717.2 |
| All purpose | 1017.7 | 835.8 | 737.1 | 679.1 | 646.2 | 626.6 | 603.1 |

| Single Number Scoring Options | | |
|-------------------------------|------------------|--------------|
| Course | Time On Distance | Time On Time |
| Windward / Leeward | 869.9 | 0.6898 |
| All purpose | 707.7 | 0.8479 |

Custom scoring options for Russia

| Single Number | Time On Distance | Time On Time |
|------------------------|------------------|--------------|
| Predominantly Upwind | 774.9 | 0.7743 |
| Predominantly Downwind | 710.5 | 0.8444 |

Club
Certificate
2022

Boat
LUCY
RUS 2393

Novokolomiazhskii av 11-70
St-Petersburg
Russia

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

| | | | | | |
|-------------------|-------------------|--------------|--------------|--------------------------------|---------------|
| Class | Albin 79 | LOA | 7.900 | VCGD | -0.071 |
| Measurement | 24.05.2022 | Max. Beam | 2.672 | VCGM | 0.002 |
| HIN | 140 | Draft | 1.428 | RM Measured (kg-m) | 30.8 |
| Plan review | | Displacement | 2 340 | RM Default (kg-m) | 30.8 |
| Hull construction | Solid | Wetted area | 12.93 | Limit of positive stability(°) | N/A |
| Aramid Hull Core | No | IMS L | 6.317 | Stability Index | N/A |
| Carbon Rudder | No | LSM0 | 6.212 | | |
| Light stanchions | No | Acc. length | 7.900 | | |
| Trim tab | No | Sink (kg/mm) | 8.84 | | |

PROPELLER

| | | | | | | | | | | | |
|-----------------|-------------------------|------|---------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|
| Propeller Type | Folding 2 blades | | | | | | | | | | |
| Installation | Shaft exposed | PRD | 0.330 | PSD | 0.025 | PSA | 22.0° | ST1 | 0.033 | ST4 | 0.055 |
| Twin screw | No | PBW | 0.100 | PHD | 0.067 | ESL | 0.470 | ST2 | 0.103 | ST5 | 0.115 |
| Hydro generator | No | PIPA | 0.0041 | PHL | 0.112 | | | ST3 | 0.105 | | |

RIG

| | | | | | |
|----------------------|--------------------|------|-----------------|-----|----------------|
| Forestay tension | Aft | P | 8.400 | E | 2.400 |
| Inner stay | None Fitted | IG | 9.500 | J | 3.130 |
| Carbon mast | No | ISP | 9.400 | BAS | 1.100 |
| Headsail furler | No | MDT1 | 0.094 | FSD | No Foil |
| Mainsail furler | No | MDL1 | 0.145 | SFJ | 0.100 |
| Articulated bowsprit | No | MDT2 | | SPL | 3.020 |
| Non-circular rigging | No | MDL2 | | WPL | |
| Fiber rigging | No | TL | No Taper | TPS | |
| Runners/Checkstays | 0 | MW | | BD | |
| Spreaders | 1 | GO | | MWT | |
| | | | | MCG | |

FLOTATION AND STABILITY

| | | | | | |
|--------------------|----------------------|-------|---------------|-------|--------------|
| Calculation method | VCG estimated | SFFP | 0.870 | SAFP | 7.600 |
| Flotation Date | 24.05.2022 | FFM | 0.865 | FAM | 0.780 |
| Measurer | | FF | 0.878 | FA | 0.803 |
| Comment | | LCFcl | 4.210 | LCFsh | 4.412 |
| | | SG | 1.0000 | HBI | 0.818 |

INVENTORY

| TANKS | <i>Id</i> | <i>Description</i> | <i>Sp.Wght</i> | <i>Capacity</i> | <i>Condition</i> | <i>LCG</i> | <i>VCG</i> |
|-------------|-----------|--------------------|--------------------------|-------------------------|------------------|------------|-------------|
| | T1 | Gaz Portable | 0.9000 | 3 | 3 | 4.70 | |
| | T2 | Fuel Portable | Fuel | 40 | 40 | 5.80 | |
| | T3 | Fuel fixed | Fuel | 24 | 24 | 5.80 | |
| | | | | Total deductible | | 56 | 5.75 |
| OTHER ITEMS | <i>Id</i> | <i>Kind</i> | <i>Description</i> | <i>Weight</i> | <i>LCG</i> | <i>VCG</i> | |
| | B1 | Battery | 65 A\ч | 17 | 4.70 | | |
| | B2 | Battery | 65 A\ч | 17 | 4.70 | | |
| | E | Engine | Volvo Penta MD5A 10 hp | 128 | 2.20 | | |
| | A1 | Anchor | Admiralty pattern anchor | 40 | 0.30 | | |
| | A2 | Anchor | Plough anchor | 43 | 0.30 | | |
| | T | Tools | | 2 | 3.70 | | |
| | D | Deductible | Single raft | 45 | 6.20 | | |
| | | | | Total deductible | | 40 | 2.68 |

Club
Certificate
2022

Boat
LUCY
RUS 2393

Novokolomiazhskii av 11-70
St-Petersburg
Russia

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>Maker</i> | <i>Material</i> | <i>Comment</i> |
|-----------|------------|------------|------------|------------|------------|-------------|------------------|--------------|-----------------|----------------|
| 1 | 0.12 | 0.48 | 0.86 | 1.53 | 2.02 | 11.90 | 24.05.2022 | | Dacron | |

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</i> | <i>FT</i> | <i>Area</i> | <i>Meas.Date</i> | <i>Maker</i> | <i>Material</i> | <i>Comment</i> |
|-----------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|-----------|-------------|------------------|--------------|-----------------|----------------|
| 1 | 0.00 | 0.51 | 1.02 | 2.12 | 3.33 | 4.70 | 9.20 | No | No | | 20.47 | 24.05.2022 | | Dacron | |
| 2 | 0.00 | 0.32 | 0.62 | 1.36 | 2.24 | 3.24 | 9.24 | No | No | | 13.68 | 24.05.2022 | | Dacron | |
| 3 | 0.00 | 0.27 | 0.54 | 1.13 | 1.79 | 2.50 | 5.56 | No | No | | 6.60 | 24.05.2022 | | Dacron | |

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>Maker</i> | <i>Material</i> | <i>Comment</i> |
|-----------|------------|------------|-----------|------------|------------|-------------|------------------|--------------|-----------------|----------------|
| 1 | 9.33 | 9.33 | 9.33 | 5.40 | 5.50 | 42.14 | 24.05.2022 | | Nylon | |