



World Leader in Rating Technology

2017 ORC Club Certificate

Rating Office

Žemaites 6
LT-03117 Vilnius
Lithuania
+370 650 28392



Certificate

Number **LT2080**
Issued On **2017-05-11**
ORC Ref **lt00000082**
VPP Ver. **2017 1.00**
Valid until **2017-12-31**

Crew Weight

Declared **640kg**
Default* **616kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **676.4 0.8870**
Non Spin OSN **654.6 0.9166**

Sails Limitations

Headsails **5** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes 82.17**
Asymmetric: **Yes 65.87**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 8.693

Stability (Measured)

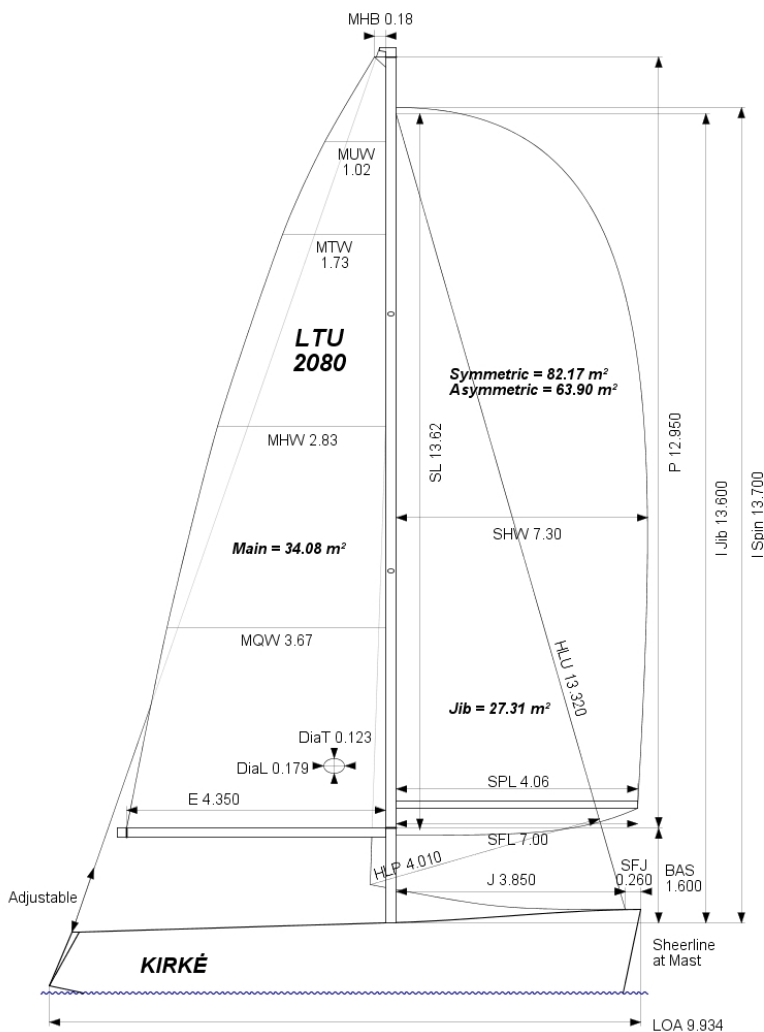
Limit Positive Stab.: **117.8°**
Stability Index: **118.7**

Owner

Mr. A. Virbickas
Krivules 10
Vilnius Lithuania

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



| | | | | | | |
|---|--------------------------------|---|---|--|---------------|---------------|
| BOAT Name KIRKE Sail Nr LTU 2080 | | GPH 642.6 | HULL Data File Kirke LTU2080 LOA 9.934m Offset File sal34v2.off MB 3.270m Displacement 4,689kg Draft 2.121m | | | |
| CLASS Class Salona 34 Designer JJ design Builder AD.Boats Series 01-2008 Age Date 07-2008 Age Allowance 0.292% | | IMS Division Cruiser/Racer Dynamic All. 0.194% Fwd Accom. Yes Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No | | IMSL 9.307m VCGD -0.002m Sink 17.33kg/mm RL 8.077m VCGM 0.067m WS 22.67m² LSM0 9.250m Displacement/Length ratio 5.9245 | | |
| COMMENTS | | Water Ballast 0 Trim Tab No | | | | |
| PROPELLER Installation Strut PRD 0.418 Type Folding 2 blades PBW 0.102 PIPA 0.0033 | | CENTERBOARD N/A | | | | |
| SCORING OPTIONS | | | | | | |
| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| Time On Distance | 623.5 | | | 695.0 | | |
| Time On Time | 0.9623 | | | 0.9712 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 739.7 | 568.3 | 504.3 | 956.8 | 699.8 | 603.1 |
| Time on Time | 0.9125 | 1.1877 | 1.3384 | 0.7055 | 0.9645 | 1.1193 |

| | |
|---------------------------|---------------------------------|
| BOAT | |
| Name KIRKE | Sail Nr LTU 2080 |
| File Kirke LTU2080 | Data in meters/kilograms |

| | | |
|--|------------------|-----------------------|
| INCLINING TEST AND FREEBOARDS | | |
| Inclining Test Current Inclining | | |
| Flotation date 30-05-2014 | | SG 1.0000 |
| FFM 1.392 | FF 1.399 | SFFP 0.254 |
| FAM 1.020 | FA 1.029 | SAFP 9.438 |
| W1 63.0 | PD1 582.9 | WD 11.900 |
| W2 63.0 | PD2 592.6 | GSA 1.0 |
| W3 63.0 | PD3 592.1 | RSA 1.0 |
| W4 63.0 | PD4 596.1 | PLM 9000.0 |
| LCF from stem on CL / on sheer | | 5.471 / 5.707 |
| Maximum beam station from stem | | 6.301 |
| RM Measured | | 99.9kg·m |
| RM Default | | 100.7kg·m |
| Limit of positive stability / Stab.Index | | 117.8° / 118.7 |
| Freeboard at mast at 4.110 | | 1.167 |



World Leader in Rating Technology

2017 Measurements Datasheet

| | | | | |
|--------------------------------|----------------------------|-------------------|-----------------|--|
| RIG | | | | |
| Forestay Tension Aft | Spreaders 2 | | | |
| Inner Stay None Fitted | Runners 0 | | | |
| Carbon Mast No | Jumper Struts None | | | |
| Taper Hollows No | Jib Furler No | | | |
| Fiber Rigging No | Main Furler No | | | |
| Lenticular Rigging No | Without Backstay No | | | |
| Articulated Bowsprit No | | | | |
| P 12.950 | E 4.350 | MDT1 0.123 | MW 0.179 | |
| IG 13.600 | J 3.850 | MDL1 0.179 | GO 0.200 | |
| ISP 13.700 | SFJ 0.260 | MDT2 0.123 | BD | |
| BAS 1.600 | SPL 4.060 | MDL2 0.179 | MWT | |
| FSP | TPS | TL 0.790 | MCG | |

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| | |
|-----------------------------|--|
| MIZZEN RIG AND SAILS | |
| N/A | |

| | | |
|------------------------------|--------------------|------------------|
| PROPELLER | | |
| Installation Strut | PRD 0.418 | |
| Type Folding 2 blades | PBW 0.102 | |
| Twin Screw No | PIPA 0.0033 | |
| ST1 0.042 | ST3 0.180 | ST5 0.260 |
| ST2 0.180 | ST4 0.112 | EDL 2.360 |

| | |
|-----------------|--|
| COMMENTS | |
| | |

| | |
|-------------------------|--|
| MOVEABLE BALLAST | |
| N/A | |

| | |
|--------------------|--|
| CENTERBOARD | |
| N/A | |

| SAILS INVENTORY | | | | | | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|------|------|-------|----------|-----------|-------------|-------------|----------|----------|-----------|-------------|----------|---------|
| MANSAL (1) | | | | | | | | | | | | | | | | |
| Id | MHB | MUW | MTW | MHW | MQW | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| 5 | 0.180 | 1.02 | 1.73 | 2.83 | 3.67 | 34.08 | | | | Unknown | | | | | | |
| HEADSAILS (1) | | | | | | | | | | | | | | | | |
| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Fly | Measurer | Meas.Date | Manufacture | Material | Comment |
| 4 | 0.09 | 0.58 | 1.10 | 2.05 | 3.03 | 4.01 | 13.32 | 104% | 27.32 | | | | | | | Unknow |
| SYMMETRIC SPINNAKERS (1) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| 02 | 13.62 | 13.62 | 13.62 | 7.30 | 7.00 | 82.17 | | | | Unknown | | | | | | |
| ASYMMETRIC SPINNAKERS (1) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment | | | | |
| 02 | 13.80 | 12.20 | 13.00 | 5.54 | 7.33 | 63.90 | asym | R.Stropus | 29-04-2017 | | Unknown | | | | | |

| | | | | |
|------------------------------|------|--------------------|----------|-----------------|
| MEASUREMENT INVENTORY | | | | |
| Measurer | Date | Comment | | |
| Id | Item | Weight | Distance | VCG Description |
| Id | Item | Weight Description | | |

| MEASUREMENT INVENTORY | | | | | | | | |
|------------------------------|------|----------|-----------|-----------------|-------|-----|--------|-------------|
| Id | Item | Tank Use | Tank Type | Capcty | Dist. | VCG | Condtn | Description |
| 01 | Tank | | Diesel | | 7.50 | | 25.0 | |
| Id | Item | Weight | Distance | VCG Description | | | | |



World Leader in Rating Technology

2017

ORC Club Certificate Appendix

| BOAT | |
|--------------------|-------------------|
| Name | KIRKE |
| Certificate Number | LT2080 |
| Sail Nr | LTU 2080 |
| Issued On | 2017-05-11 |

| TIME ALLOWANCES | | | | | | | |
|-----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 1102.5 | 913.4 | 807.3 | 743.0 | 719.2 | 708.9 | 699.9 |
| 52° | 720.8 | 605.2 | 544.0 | 517.7 | 507.4 | 502.8 | 498.9 |
| 60° | 679.3 | 573.2 | 526.3 | 504.5 | 492.9 | 487.8 | 484.5 |
| 75° | 645.8 | 550.8 | 513.5 | 493.2 | 476.7 | 464.1 | 454.6 |
| 90° | 648.8 | 544.0 | 502.6 | 482.4 | 473.7 | 456.8 | 429.2 |
| 110° | 650.3 | 540.3 | 499.6 | 473.3 | 450.4 | 431.3 | 412.2 |
| 120° | 669.7 | 552.8 | 505.8 | 479.4 | 453.6 | 428.4 | 395.1 |
| 135° | 738.8 | 602.7 | 529.4 | 497.3 | 473.1 | 448.1 | 400.1 |
| 150° | 874.2 | 694.3 | 588.4 | 526.6 | 497.2 | 474.6 | 428.6 |
| Run VMG | 1009.5 | 801.7 | 678.2 | 596.9 | 540.5 | 506.2 | 461.4 |

| Selected Courses | | | | | | | |
|--------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Windward / Leeward | 1056.0 | 857.6 | 742.7 | 669.9 | 629.8 | 607.6 | 580.7 |
| Circular Random | 887.8 | 715.8 | 623.3 | 569.4 | 536.2 | 514.4 | 486.6 |
| Ocean for PCS | 1086.0 | 838.6 | 699.0 | 613.6 | 558.1 | 519.4 | 465.2 |
| Non Spinnaker | 948.5 | 758.7 | 655.2 | 594.1 | 556.1 | 531.3 | 501.4 |

| Velocity Prediction in Knots for True Wind Speeds | | | | | | | |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat Angles | 43.0° | 41.4° | 41.5° | 39.9° | 38.8° | 38.3° | 38.8° |
| Beat VMG | 3.27 | 3.94 | 4.46 | 4.85 | 5.01 | 5.08 | 5.14 |
| 52° | 4.99 | 5.95 | 6.62 | 6.95 | 7.10 | 7.16 | 7.22 |
| 60° | 5.30 | 6.28 | 6.84 | 7.14 | 7.30 | 7.38 | 7.43 |
| 75° | 5.57 | 6.54 | 7.01 | 7.30 | 7.55 | 7.76 | 7.92 |
| 90° | 5.55 | 6.62 | 7.16 | 7.46 | 7.60 | 7.88 | 8.39 |
| 110° | 5.54 | 6.66 | 7.21 | 7.61 | 7.99 | 8.35 | 8.73 |
| 120° | 5.38 | 6.51 | 7.12 | 7.51 | 7.94 | 8.40 | 9.11 |
| 135° | 4.87 | 5.97 | 6.80 | 7.24 | 7.61 | 8.03 | 9.00 |
| 150° | 4.12 | 5.19 | 6.12 | 6.84 | 7.24 | 7.59 | 8.40 |
| Run VMG | 3.57 | 4.49 | 5.31 | 6.03 | 6.66 | 7.11 | 7.80 |
| Gybe Angles | 145.6° | 150.3° | 151.7° | 158.5° | 180.0° | 180.0° | 180.0° |