

| | | |
|---|----------------------------|---|
| BOAT Name GALLANT Sail Nr USA 24 | GPH 607.6 | HULL Length Overall 13.410m Maximum Beam 3.831m Displacement 12,847kg Draft 2.267m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.328% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension 0.00 |
| GENERAL Class NAVY 44 II PEDRICK Designer PEDRICK Builder PEARSON Series 01/2007, CIN 3 Age 01/2007 Age Allowance 0.390% Offset File US41723.off - 10/05/2017 13:40:36 Measurement by - 20/05/2019 | | IMSL 11.330m VCGD -0.116m Sink 26.82kg/mm RL 9.001m VCGM -0.114m WS 38.30m² LSM0 11.300m Displacement/Length ratio 8.9036 |



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| SCORING OPTIONS | | | | | | |
|------------------|-------------------------|---------------|---------------|--------------------|---------------|---------------|
| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| Time on Distance | 590.4 | | | 659.2 | | |
| Time on Time | 1.0163 | | | 1.0239 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 701.7 | 537.0 | 477.1 | 906.5 | 666.3 | 568.8 |
| Time on Time | 0.9619 | 1.2570 | 1.4149 | 0.7446 | 1.0130 | 1.1867 |

| TIME ALLOWANCES | | | | | | | |
|-----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 1020.1 | 851.4 | 755.9 | 703.8 | 676.9 | 662.6 | 652.2 |
| 52° | 666.8 | 565.6 | 504.9 | 479.8 | 469.4 | 463.9 | 459.3 |
| 60° | 630.5 | 537.1 | 487.5 | 467.4 | 457.3 | 452.0 | 447.0 |
| 75° | 603.2 | 515.6 | 476.0 | 457.9 | 446.5 | 438.0 | 428.4 |
| 90° | 608.2 | 517.9 | 475.2 | 455.8 | 442.9 | 432.1 | 414.3 |
| 110° | 637.7 | 524.8 | 470.6 | 447.8 | 432.0 | 421.6 | 407.3 |
| 120° | 651.9 | 536.2 | 475.4 | 449.9 | 432.1 | 415.6 | 392.5 |
| 135° | 715.9 | 583.3 | 501.4 | 463.9 | 443.6 | 426.3 | 392.8 |
| 150° | 846.7 | 672.6 | 569.9 | 501.1 | 465.4 | 446.0 | 413.5 |
| Run VMG | 977.7 | 776.6 | 658.1 | 574.6 | 521.5 | 480.4 | 439.6 |

Certificate
Number **US6313**
ORC Ref **USAX028JDTN**
Issued On **30/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default 819kg
Maximum **819kg**
Minimum* **614kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **634.3 0.9459**
Non Spin OSN **616.7 0.9728**

| Selected Courses | | | | | | | |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Windward / Leeward | 998.9 | 814.0 | 707.0 | 639.2 | 599.2 | 571.5 | 545.9 |
| Circular Random | 840.0 | 677.2 | 589.3 | 538.0 | 506.6 | 486.5 | 463.0 |
| Coastal / Long Distance | 996.8 | 764.4 | 634.5 | 555.7 | 515.2 | 485.8 | 443.2 |
| Non Spinnaker | 887.2 | 711.1 | 614.7 | 557.6 | 521.9 | 498.8 | 470.8 |

Sails Limitations
Headsails **6** Spinnakers **4**
Dacron Sails

| 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 | 43.4° | 41.7° | 41.8° | 41.9° | 40.7° | 40.0° | 39.7° |
| Beat VMG | 3.53 | 4.23 | 4.76 | 5.12 | 5.32 | 5.43 | 5.52 |
| 52° | 5.40 | 6.36 | 7.13 | 7.50 | 7.67 | 7.76 | 7.84 |
| 60° | 5.71 | 6.70 | 7.38 | 7.70 | 7.87 | 7.97 | 8.05 |
| 75° | 5.97 | 6.98 | 7.56 | 7.86 | 8.06 | 8.22 | 8.40 |
| 90° | 5.92 | 6.95 | 7.58 | 7.90 | 8.13 | 8.33 | 8.69 |
| 110° | 5.65 | 6.86 | 7.65 | 8.04 | 8.33 | 8.54 | 8.84 |
| 120° | 5.52 | 6.71 | 7.57 | 8.00 | 8.33 | 8.66 | 9.17 |
| 135° | 5.03 | 6.17 | 7.18 | 7.76 | 8.12 | 8.45 | 9.16 |
| 150° | 4.25 | 5.35 | 6.32 | 7.18 | 7.73 | 8.07 | 8.71 |
| Run VMG | 3.68 | 4.64 | 5.47 | 6.27 | 6.90 | 7.49 | 8.19 |
| Gybe Angles | 145.1° | 149.8° | 149.9° | 153.4° | 162.3° | 180.0° | 180.0° |

Class Division Length
CDL = **10.167**

Storm Sails Areas
Heavy Weather Jib **42.22**
Storm Jib (JL=11.50) **15.64**
Storm Trysail **15.41**

Owner

| | |
|---------------------|---------------------------------|
| BOAT | |
| Name GALLANT | Sail Nr USA 24 |
| File US6313 | Data in meters/kilograms |

| | |
|--------------------------------|--|
| RIG | |
| Forestay Tension Aft | Spreaders 2 |
| Inner Stay Adjustable | Runners 1 |
| 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 15.240 | E 5.775 MDT1 0.155 MW 0.204 |
| IG 17.484 | J 5.525 MDL1 0.245 GO 0.266 |
| ISP 17.434 | SFJ 0.000 MDT2 0.155 BD 0.210 |
| BAS 1.864 | SPL 5.630 MDL2 0.245 MWT 0.00 |
| FSP 0.076 | TPS 0.000 TL 2.680 MCG 0.000 |

| | | |
|--|-----------------------|--------------------|
| INCLINING TEST AND FREEBOARDS | | |
| Inclining Test Boom Inclining | LCFD | |
| Flotation date 20/05/2019 | SG 1.0040 | |
| FFM 1.398 | FF 1.411 | SFFP 0.998 |
| FAM 1.082 | FA 1.090 | SAFP 12.815 |
| W1 137.7 | PD1 235.8 | WD 5.430 |
| W2 137.7 | PD2 234.6 | GSA 1.0 |
| W3 137.7 | PD3 228.5 | RSA 1.0 |
| W4 137.7 | PD4 230.2 | PLM 9000.0 |
| LCF from stem on CL / on sheer | 7.500 / 7.737 | |
| Maximum beam station from stem | 7.989 | |
| RM Measured | 253.5kg-m | |
| RM Default | 259.3kg-m | |
| Limit of positive stability / Stab.Index | 123.5° / 132.8 | |
| Freeboard at mast at 5.525 | 1.189 | |



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

| | | |
|-----------------------------------|--|--|
| PROPELLER | | |
| Installation Shaft exposed | PRD 0.489 | |
| Type Feathering 2 blades | PBW 0.152 | |
| Twin Screw No | PIPA 0.0083 | |
| PSA 30.000 | PHL 0.155 ST3 0.146 ESL 0.847 | |
| PSD 0.025 | ST1 0.030 ST4 0.064 | |
| PHD 0.073 | ST2 0.122 ST5 0.226 | |

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|-------------------------------|--|
| Certificate | |
| Number US6313 | |
| ORC Ref USAX028JDTN | |
| Issued On 30/05/2019 | |
| VPP Ver. 2019 1.01 | |
| Valid until 31/12/2019 | |

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

| | |
|------------------------|--|
| MOVABLE BALLAST | |
| N/A | |

| | | |
|-------------------|----|----|
| BILGEBOARD | | |
| BS | BT | BA |
| BF | BX | |
| BC | BY | |



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|------------------------------|---------------|-------|-------|-------|-------|--|
| SAILS (Maximum Areas) | | | | | | |
| Mainsail | MHB | MUW | MTW | MHW | MQW | Area Area (r) Formula |
| | 0.140 | 1.04 | 1.87 | 3.36 | 4.42 | 48.10 48.71 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB) |
| Symmetric | SLU | SLE | SL | SHW | SFL | Area Formula |
| | 17.62 | 17.62 | 17.62 | 10.00 | 10.00 | 146.83 SL · (SFL + 4·SHW) / 6 |
| Asymmetric | Not Available | | | | | |

| | | | | | | | | | | | | |
|---|------|------|------|------|------|-------|-------|-----|-----|-----------|----------|---------------|
| HEADSAILS | | | | | | | | | | | | |
| Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB) | | | | | | | | | | | | |
| HHB | HUW | HTW | HHW | HQW | HLP | HLU | Area | Btn | Fly | Meas.Date | Material | Comment |
| 0.01 | 0.99 | 1.96 | 3.97 | 6.14 | 8.39 | 17.57 | 71.70 | | | | | 2019-#1 genoa |

| | | | | |
|------------------------------|--------|---------|-------------|-----------------|
| MEASUREMENT INVENTORY | | | | |
| Measurer | Date | Comment | | |
| Id | Item | Weight | Distance | VCG Description |
| a | Ancher | 0.0 | 0.00 | |
| Id | Item | Weight | Description | |

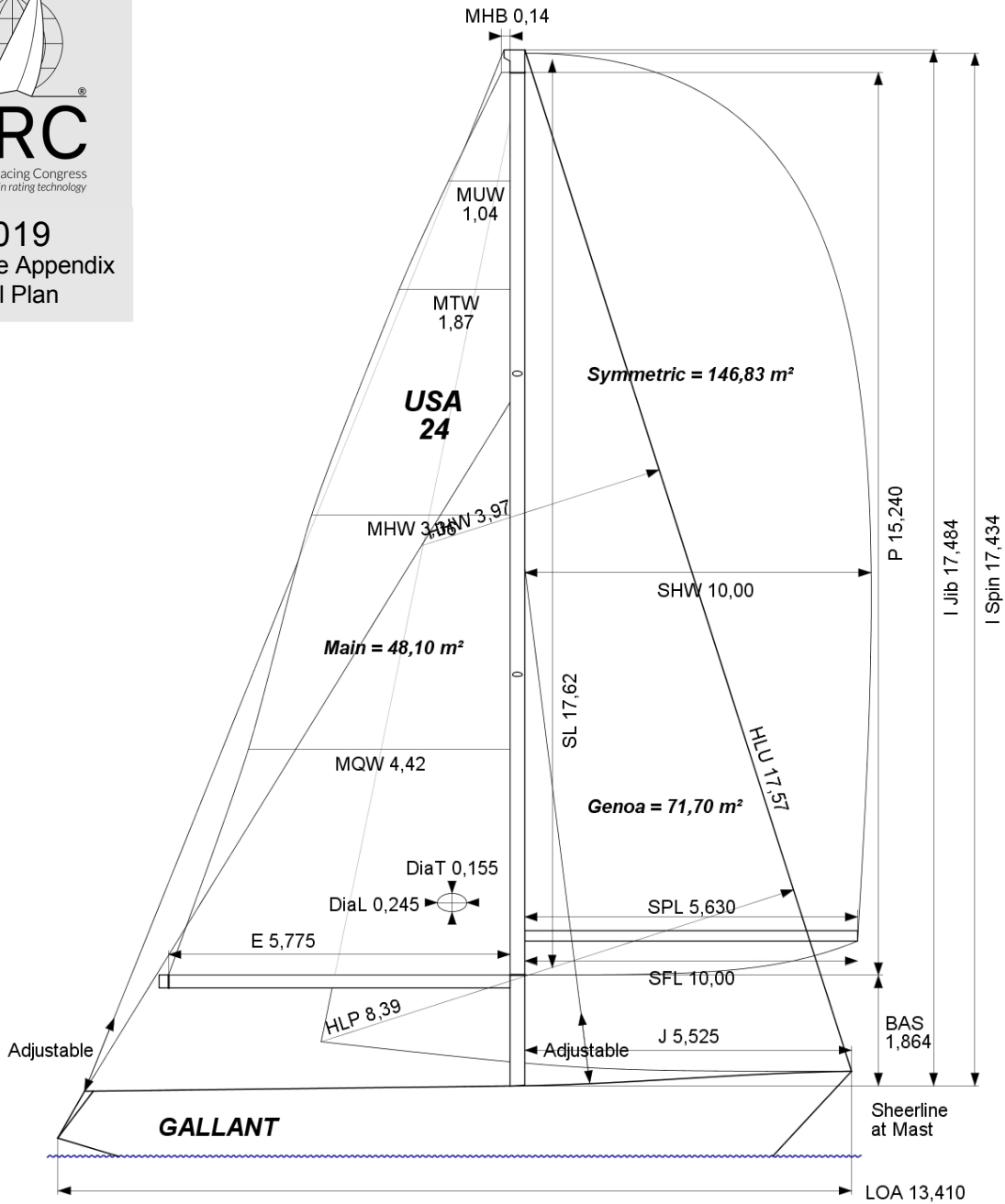
| | | | | | | | | | |
|------------------------------|------|--------|----------|-----------|-------------|-------|------|--------|-------------|
| MEASUREMENT INVENTORY | | | | | | | | | |
| Id | Item | Tank | Use | Tank Type | Capcty | Dist. | VCG | Condtn | Description |
| | | Tank | | | | 0.00 | 0.00 | 0-0 | |
| Id | Item | Weight | Distance | VCG | Description | | | | |



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

| Id | MHB | MUW | MTW | MHW | MQW | Area | Measurer | Meas.Date | Manufacture | Material | Comment |
|---------|------|------|------|------|------|-------|----------|-----------|-------------|----------|----------------|
| 2486184 | 0.14 | 1.04 | 1.87 | 3.36 | 4.42 | 48.11 | | | Jeff Todd | | 2019-poly main |

HEADSAILS (1)

| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Fly | Measurer | Meas.Date | Manufacture | Material | Comment |
|---------|------|------|------|------|------|------|-------|-------|-------|-----|-----|----------|-----------|-------------|----------|---------------|
| 2486297 | 0.01 | 0.99 | 1.96 | 3.97 | 6.14 | 8.39 | 17.57 | 152% | 71.70 | | | | | Jeff Todd | | 2019-#1 genoa |

SYMMETRIC SPINNAKERS (1)

| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment |
|---------|-------|-------|-------|-------|-------|--------|----------|-----------|-------------|----------|---------------------|
| 2486309 | 17.62 | 17.62 | 17.62 | 10.00 | 10.00 | 146.84 | | | Jeff Todd- | | 2019-1 oz spinnaker |

ASYMMETRIC SPINNAKERS (0)

| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|-----|-----|----|-----|-----|------|------|----------|-----------|-------------|----------|---------|
|----|-----|-----|----|-----|-----|------|------|----------|-----------|-------------|----------|---------|