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| BOAT |
| Name GLADIADOR Sail Nr ESP-6478 |

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|--------------|
| GPH |
| 722,9 |

| |
|--|
| HULL |
| Length Overall 9,986 m |
| Maximum Beam 3,420 m |
| Displacement 6.257 kg |
| Draft 1,904 m |
| IMS Reg. Division Cruiser/Racer |
| Dynamic Allowance 1,004% |
| Fwd Accommodation Yes |
| Hull Construction Solid |
| Carbon Rudder No |
| Trim Tab No |
| IMS L 8,333 VCGD -0,029 VCGM -0,025 |
| Sink 16,50 kg/mm Wetted Area 24,01 m² |



2011
ORC International
Certificate

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| GENERAL |
| Class GLADIATEUR |
| Designer HOLMAN & PYE |
| Builder WAUQUIEZ |
| Series 01/1976 |
| Age 06/1980 |
| Age Allowance 0,975% |
| Offset File G1001.BOF - 01/08/1993 13:48:00 |
| Measurement by FGUDE/GVALV - 25/04/2007 |

| | | | | | | |
|------------------------|-------------------------|---------------|---------------|--------------------|---------------|---------------|
| SCORING OPTIONS | | | | | | |
| | OFFSHORE | | | INSHORE | | |
| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| Time On Distance | 722,9 | | | 778,6 | | |
| Time On Time | 0,8300 | | | 0,8670 | | |
| Performance Line | PLT | PLD | | PLT | PLD | |
| | 0,732 | 107,1 | | 0,685 | 167,4 | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| | 0,8028 | 1,0612 | 1,1955 | 0,6138 | 0,8655 | 1,0079 |

Rating Office

REAL FEDERACION
ESPAÑOLA DE VELA
C/ Luis de Salazar, 9
28002 Madrid



| | | | | | | | |
|------------------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| TIME ALLOWANCES | | | | | | | |
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 1271,0 | 1042,4 | 895,9 | 834,1 | 803,9 | 785,1 | 768,5 |
| 52° | 816,8 | 660,2 | 609,3 | 580,7 | 563,5 | 554,9 | 546,0 |
| 60° | 762,7 | 629,4 | 589,4 | 563,1 | 545,4 | 535,9 | 527,0 |
| 75° | 714,1 | 609,3 | 572,9 | 548,4 | 529,8 | 515,2 | 500,1 |
| 90° | 726,7 | 609,2 | 565,1 | 536,2 | 520,7 | 511,8 | 490,9 |
| 110° | 731,2 | 606,7 | 562,7 | 533,3 | 509,6 | 489,5 | 466,4 |
| 120° | 762,5 | 619,1 | 572,0 | 541,0 | 516,9 | 496,1 | 462,4 |
| 135° | 853,7 | 674,6 | 600,6 | 562,9 | 535,7 | 513,1 | 476,1 |
| 150° | 1013,5 | 789,8 | 655,0 | 596,6 | 561,7 | 535,7 | 494,6 |
| Run VMG | 1170,2 | 914,9 | 753,4 | 654,2 | 599,8 | 565,0 | 517,5 |

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| Certificate |
| Number 647801 |
| ORC Ref ESP00000876 |
| Issued On 28/02/2011 |
| VPP Ver. 2011 1.02 |
| Valid until 31/12/2011 |

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|-------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Selected Courses | | | | | | | |
| Windward / Leeward | 1242,4 | 989,0 | 839,4 | 755,7 | 710,3 | 682,4 | 649,2 |
| Circular Random | 1007,1 | 807,6 | 700,3 | 638,1 | 600,3 | 575,9 | 545,8 |
| Ocean for PCS | 1073,1 | 843,3 | 715,7 | 639,0 | 589,9 | 556,3 | 510,3 |
| Non Spinnaker | 1062,7 | 846,5 | 728,7 | 659,6 | 617,1 | 589,7 | 556,4 |

| | |
|--------------------|---------------|
| Crew Weight | |
| Declared | 550 kg |
| Default* | 601 kg |
| Non Manual Power | No |

| | | |
|------------------------|--------------|---------------|
| Special Scoring | | |
| | ToD | ToT |
| Double Handed | 724,3 | 0,8284 |
| Non Spinnaker | 753,0 | 0,7968 |
| N/S Perf. Line | 76,6 | 0,664 |

| | | | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 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 | 45,0° | 45,7° | 42,6° | 39,8° | 38,4° | 37,6° | 37,1° |
| Beat VMG | 2,83 | 3,45 | 4,02 | 4,32 | 4,48 | 4,59 | 4,68 |
| 52° | 4,41 | 5,45 | 5,91 | 6,20 | 6,39 | 6,49 | 6,59 |
| 60° | 4,72 | 5,72 | 6,11 | 6,39 | 6,60 | 6,72 | 6,83 |
| 75° | 5,04 | 5,91 | 6,28 | 6,56 | 6,79 | 6,99 | 7,20 |
| 90° | 4,95 | 5,91 | 6,37 | 6,71 | 6,91 | 7,03 | 7,33 |
| 110° | 4,92 | 5,93 | 6,40 | 6,75 | 7,06 | 7,35 | 7,72 |
| 120° | 4,72 | 5,82 | 6,29 | 6,65 | 6,97 | 7,26 | 7,78 |
| 135° | 4,22 | 5,34 | 5,99 | 6,40 | 6,72 | 7,02 | 7,56 |
| 150° | 3,55 | 4,56 | 5,50 | 6,03 | 6,41 | 6,72 | 7,28 |
| Run VMG | 3,08 | 3,93 | 4,78 | 5,50 | 6,00 | 6,37 | 6,96 |
| Gybe Angles | 144,4° | 152,6° | 151,8° | 171,5° | 180,0° | 180,0° | 180,0° |

| | | |
|---|----------|------------|
| Sails Limitations | | |
| Genoas | Jibs | Spinnakers |
| 1 | 0 | 3 |
| Spinnaker configuration Symmetric | | |

| | |
|--------------------------|--------------|
| Storm Sails Areas | |
| Heavy Weather Jib | 24,94 |
| Storm Jib (JL=8,84) | 9,24 |
| Storm Trysail | 6,88 |

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|--------------|
| Owner |
| |
| Signature |

| | |
|-----------------------|---------------------------------|
| BOAT | |
| Name GLADIADOR | Sail Nr ESP-6478 |
| File E6478.dxt | Data in meters/kilograms |

| | | |
|---|------------------|----------------------|
| INCLINING TEST AND FREEBOARDS | | |
| Inclining Test Current Inclining | | |
| Flotation date 25/04/2007 | | SG 1,0250 |
| FFM 1,122 | FF 1,122 | SFFP 0,853 |
| FAM 1,019 | FA 1,019 | SAFP 9,391 |
| W1 74,400 | PD1 564,3 | WD 11,020 |
| W2 74,400 | PD2 564,3 | GSA 1,0 |
| W3 74,400 | PD3 559,7 | RSA 1,0 |
| W4 74,400 | PD4 559,7 | PLM 9000,0 |
| Maximum beam station from stern | | 5,920 |
| RM Measured / Default | | 114,9 / 103,3 |
| Limit of positive stability | | 118,2° |
| Stability Index | | 122,1 |
| Freeboard at mast at 4,190 | | 1,021 |



ORC
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2011
IMS Measurement
Certificate

| | | | | |
|--------------------------------|---------------------------|-------------------|----------------------------|--|
| RIG | | | | |
| Forestay Tension Aft | Spreaders 1 | | Runners 0 | |
| Inner Forestay Fixed | Jumper Struts None | | Jib Furler Yes | |
| Carbon Mast Yes | Main Furler No | | Without Backstay No | |
| Taper Hollows No | | | | |
| Fiber Rigging No | | | | |
| Lenticular Rigging No | | | | |
| Articulated Bowsprit No | | | | |
| P 11,950 | E 3,290 | MDT1 0,140 | TL 0,000 | |
| IG 13,560 | J 4,190 | MDL1 0,220 | MWT | |
| ISP 13,560 | SFJ | MDT2 0,140 | MCG | |
| SPS | SPL 4,190 | MDL2 0,220 | CPW | |
| BAS 1,300 | TPS | MW 0,160 | BD | |
| BAL | FSP | GO 0,170 | BWT | |

| | | |
|---------------------------|--------------------|------------------|
| PROPELLER | | |
| Installation Strut | PRD 0,380 | |
| Type Folding | PBW | |
| Twin Screw No | PIPA 0,0035 | |
| ST1 0,057 | ST3 | ST5 0,310 |
| ST2 | ST4 0,110 | EDL 1,930 |

Certificate

Number **647801**
ORC Ref **ESP00000876**
Issued On **28/02/2011**
VPP Ver. **2011 1.02**
Valid until **31/12/2011**



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

| | | |
|----------------------|--|--|
| WATER BALLAST | | |
| N/A | | |

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

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

| SAILS (Maximum Areas) | | | | | | | | | |
|------------------------------|-------|------|------|------|------|-------|-------|----------|--|
| Mainsail | HB | MGT | MGU | MGM | MGL | MSW | Area | Area (r) | Formula |
| | 0,110 | 0,70 | 1,29 | 2,16 | 2,78 | 14,00 | 23,69 | 24,01 | $P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$ |
| Jib/Genoa | JH | JGT | JGU | JGM | JGL | JL | LPG | | |
| | 0,00 | 0,67 | 1,31 | 2,72 | 4,19 | 13,12 | 5,74 | 36,53 | $0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$ |
| Symmetric | SL | SMG | SF | | | | | Area (r) | |
| | 12,90 | 5,62 | 7,54 | | | | | 64,55 | $67,79$ |
| | | | | | | | | | $SL \cdot (SF + 4 \cdot SMG) / 6$ |

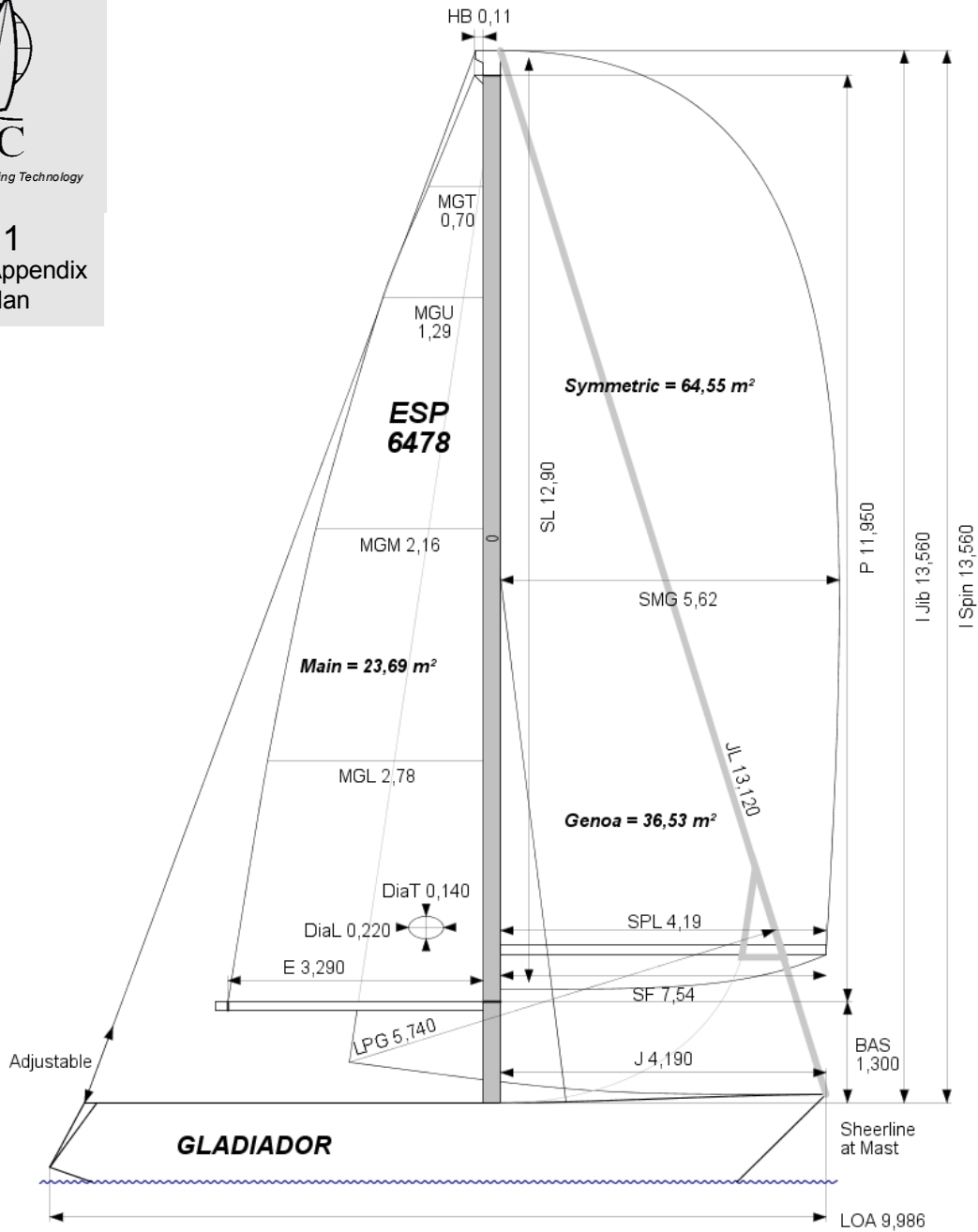
| MEASUREMENT INVENTORY | | | |
|-------------------------------------|-----------|--------|---------------------|
| Measurer GERARDO VALVERDE 24 | | | |
| Date 25/04/2006 | | | |
| Comment | | | |
| Id | Item | Weight | Distanc Description |
| 1 | Anchor | 68,0 | 0,50 ANCLA, |
| Id | Item | Weight | Description |
| 1 | Deck Gear | 10,0 | |

| MEASUREMENT INVENTORY | | | | | | |
|------------------------------|-------------|----------|-----------------------|-------|-------|-------------------|
| Id | Item | Tank Use | Tank Type | Capct | Dist. | Condt Description |
| 1 | Liquid Tank | GASOIL | | 80,0 | 9,00 | 0,0 RESERVA |
| 2 | Liquid Tank | AGUA | | 250,0 | 5,70 | 0,0 VACIO |
| Id | Item | Weight | Distanc Description | | | |
| 1 | Battery | 0,0 | 0,00 4 BATERIAS 100Ah | | | |



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2011
Certificate Appendix
Sail Plan



SAILS INVENTORY

MANSAIL

| Id | HB | MGT | MGU | MGM | MGL | MSW | Area | Measurer | Meas.Date | Manufacture | Material | Comment |
|-----|-------|------|------|------|------|-------|-------|-------------|------------|-------------|----------|---------|
| ORC | 0,110 | 0,70 | 1,29 | 2,16 | 2,78 | 14,00 | 23,69 | F.GUDE E342 | 13/06/2005 | | | |

JIBS / GENOAS

| Id | JH | JGT | JGU | JGM | JGL | LPG | JL | Overlp | Area | Measurer | Meas.Date | Manufacture | Material | Comment |
|-----|----|------|------|------|------|------|-------|--------|-------|----------|------------|-------------|----------|---------|
| ORC | | 0,67 | 1,31 | 2,72 | 4,19 | 5,74 | 13,12 | 137% | 36,53 | Gandara | 28/12/2011 | | | |

SYMMETRIC SPINNAKERS

| Id | SL | SMG | SF | Area | Measurer | Meas.Date | Manufacture | Material | Comment |
|-----|-------|------|----|-------|-------------|------------|-------------|----------|---------|
| ORC | 12,90 | 5,62 | | 64,55 | F.GUDE E342 | 20/03/2004 | | | |

ASYMMETRIC SPINNAKERS

| Id | SLU | SLE | ASL | AMG | ASF | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|-----|-----|-----|-----|-----|------|------|----------|-----------|-------------|----------|---------|
|----|-----|-----|-----|-----|-----|------|------|----------|-----------|-------------|----------|---------|