

BOAT	GPH	HULL
Name PIKO NORTE Sail Nr ESP-9614	717.1	Length Overall 9.673m Maximum Beam 3.428m Displacement 5,696kg Draft 1.896m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.439% Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 9.086m VCGD 0.308m Sink 18.47kg/mm RL 5.963m VCGM 0.262m WS 24.48m² LSM0 9.162m Displacement/Length ratio 7.4063
Class BAVARIA 32/1.80 CR Designer FARR/BMW Builder BAVARIA Series 01/2009 Age 06/2010 Age Allowance 0.357% Offset File bav32cr.off - 21/01/2015 20:26:36 Measurement by - 20/07/2013		



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC International
Certificate

Rating Office

Offshore
Racing
Congress

COPY ONLY for Rating

World Leader In Rating Technology

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	693.6			776.6		
Time on Time	0.8650			0.8691		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	844.3	630.7	547.4	1094.7	789.4	657.2
Time on Time	0.7995	1.0702	1.2332	0.6166	0.8551	1.0271

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1309.7	1075.4	951.3	864.7	803.9	775.5	777.7
52°	842.6	707.2	630.6	576.1	546.1	532.4	528.5
60°	791.4	669.8	597.3	553.1	529.7	517.4	510.5
75°	757.9	641.3	571.1	536.0	516.7	503.5	487.1
90°	731.1	607.2	539.6	512.0	500.5	493.9	473.8
110°	721.0	595.3	532.0	504.4	484.6	466.6	446.6
120°	744.6	611.9	539.9	508.6	488.3	468.8	432.9
135°	824.6	669.9	576.1	527.5	502.7	482.8	443.5
150°	966.7	760.3	645.6	568.3	526.6	503.4	465.9
Run VMG	1116.3	877.4	742.6	650.2	581.8	536.2	491.7
Selected Courses							
Windward / Leeward	1213.0	976.4	846.9	757.5	692.8	655.9	634.7
Circular Random	1007.2	805.8	694.9	628.5	586.9	560.4	532.5
Coastal / Long Distance	1203.3	913.6	755.9	652.6	593.4	555.6	504.1
Non Spinnaker	1085.2	860.3	734.5	658.0	609.6	578.6	546.1

Certificate

Number **961401**
ORC Ref **03510000L7R**
Issued On **23/06/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default **608kg**
Maximum **400kg**
Minimum* **300kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **759.1 0.7904**
Non Spin OSN **730.8 0.8210**

Sails Limitations

Headsails	Spinnakers
5	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	45.0°	42.8°	42.0°	41.6°	41.4°	40.9°	41.3°
Beat VMG	2.75	3.35	3.78	4.16	4.48	4.64	4.63
52°	4.27	5.09	5.71	6.25	6.59	6.76	6.81
60°	4.55	5.37	6.03	6.51	6.80	6.96	7.05
75°	4.75	5.61	6.30	6.72	6.97	7.15	7.39
90°	4.92	5.93	6.67	7.03	7.19	7.29	7.60
110°	4.99	6.05	6.77	7.14	7.43	7.72	8.06
120°	4.83	5.88	6.67	7.08	7.37	7.68	8.32
135°	4.37	5.37	6.25	6.82	7.16	7.46	8.12
150°	3.72	4.74	5.58	6.33	6.84	7.15	7.73
Run VMG	3.22	4.10	4.85	5.54	6.19	6.71	7.32
Gybe Angles	147.0°	151.0°	154.0°	157.0°	174.0°	180.0°	180.0°

Class Division Length

CDL = 7.517

Storm Sails Areas

Heavy Weather Jib **20.48**
Storm Jib (JL=8.01) **7.59**
Storm Trysail **8.16**

Owner

BOAT Name PIKO NORTE Sail Nr ESP-9614 File E9614 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Current Inclining Flotation date 04/07/2013 SG 1.0250		 ORC Offshore Racing Congress World leader in rating technology 2020 IMS Measurement Certificate																																					
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No		FFM 1.350 FF 1.350 SFFP 0.214 FAM 1.097 FA 1.097 SAFF 9.114 W1 78.3 PD1 562.3 WD 9.400 W2 78.3 PD2 561.4 GSA 1.0 W3 78.3 PD3 562.0 RSA 1.0 W4 78.3 PD4 562.3 PLM 9000.0																																							
P 11.510 E 4.050 MDT1 0.090 MW 0.182 IG 12.280 J 3.480 MDL1 0.182 GO 0.192 ISP 12.750 SFJ 0.000 MDT2 0.090 BD 0.135 BAS 1.483 SPL 3.510 MDL2 0.182 MWT FSD 0.031 TPS TL 0.000 MCG		LCF from stem on CL / on sheer 5.385 / 5.631 Maximum beam station from stem 6.555 RM Measured 103.1kg-m RM Default 117.4kg-m Limit of positive stability / Stab.Index 107.4° / 109.4 Freeboard at mast at 3.480 1.235																																							
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Strut PRD 0.430 Type Folding 2 blades PBW 0.108 Twin Screw No PIPA 0.0039 ST1 0.069 ST3 0.190 ST5 0.330 ST2 0.190 ST4 0.111 EDL 2.130																																							
COMMENTS N/A		MOVABLE BALLAST N/A		 World Leader In Rating Technology																																					
		CENTERBOARD N/A																																							
SAILS (Maximum Areas)																																									
<table border="1"> <thead> <tr> <th>Mainsail</th> <th>MHB</th> <th>MUW</th> <th>MTW</th> <th>MHW</th> <th>MQW</th> <th>Area</th> <th>Area (r)</th> <th>Formula</th> </tr> </thead> <tbody> <tr> <td></td> <td>0.15</td> <td>0.80</td> <td>1.45</td> <td>2.51</td> <td>3.33</td> <td>27.02</td> <td>27.49</td> <td>$P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$</td> </tr> <tr> <td>Symmetric</td> <td>SLU</td> <td>SLE</td> <td>SL</td> <td>SHW</td> <td>SFL</td> <td>61.47</td> <td></td> <td>$SL \cdot (SFL + 4 \cdot SHW) / 6$</td> </tr> <tr> <td></td> <td>11.75</td> <td>11.75</td> <td>11.75</td> <td>6.31</td> <td>6.15</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula		0.15	0.80	1.45	2.51	3.33	27.02	27.49	$P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$	Symmetric	SLU	SLE	SL	SHW	SFL	61.47		$SL \cdot (SFL + 4 \cdot SHW) / 6$		11.75	11.75	11.75	6.31	6.15			
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula																																	
	0.15	0.80	1.45	2.51	3.33	27.02	27.49	$P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$																																	
Symmetric	SLU	SLE	SL	SHW	SFL	61.47		$SL \cdot (SFL + 4 \cdot SHW) / 6$																																	
	11.75	11.75	11.75	6.31	6.15																																				
Asymmetric Not Available																																									
HEADSAILS Area = $0.1125 \cdot HLU \cdot (1.445 \cdot HLP + 2 \cdot HQW + 2 \cdot HHW + 1.5 \cdot HTW + HUW + 0.5 \cdot HHB)$ <table border="1"> <thead> <tr> <th>HHB</th> <th>HUW</th> <th>HTW</th> <th>HHW</th> <th>HQW</th> <th>HLP</th> <th>HLU</th> <th>Area</th> <th>Btn</th> <th>Flying</th> <th>Meas.Date</th> <th>Material</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0.05</td> <td>0.40</td> <td>0.79</td> <td>1.66</td> <td>2.63</td> <td>3.70</td> <td>11.38</td> <td>19.89</td> <td>Y</td> <td>No</td> <td>10/01/2018</td> <td>Unknow</td> <td></td> </tr> </tbody> </table>						HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment	0.05	0.40	0.79	1.66	2.63	3.70	11.38	19.89	Y	No	10/01/2018	Unknow											
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment																													
0.05	0.40	0.79	1.66	2.63	3.70	11.38	19.89	Y	No	10/01/2018	Unknow																														
MEASUREMENT INVENTORY Measurer ESP 24 Date 04/07/2013 Comment Internal Ballast total = 0.0			MEASUREMENT INVENTORY <table border="1"> <thead> <tr> <th>Id</th> <th>Item</th> <th>Weight</th> <th>Distance</th> <th>VCG</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Id</td> <td>Item</td> <td>Weight</td> <td>Description</td> <td></td> <td></td> </tr> </tbody> </table>			Id	Item	Weight	Distance	VCG	Description	Id	Item	Weight	Description																										
Id	Item	Weight	Distance	VCG	Description																																				
Id	Item	Weight	Description																																						

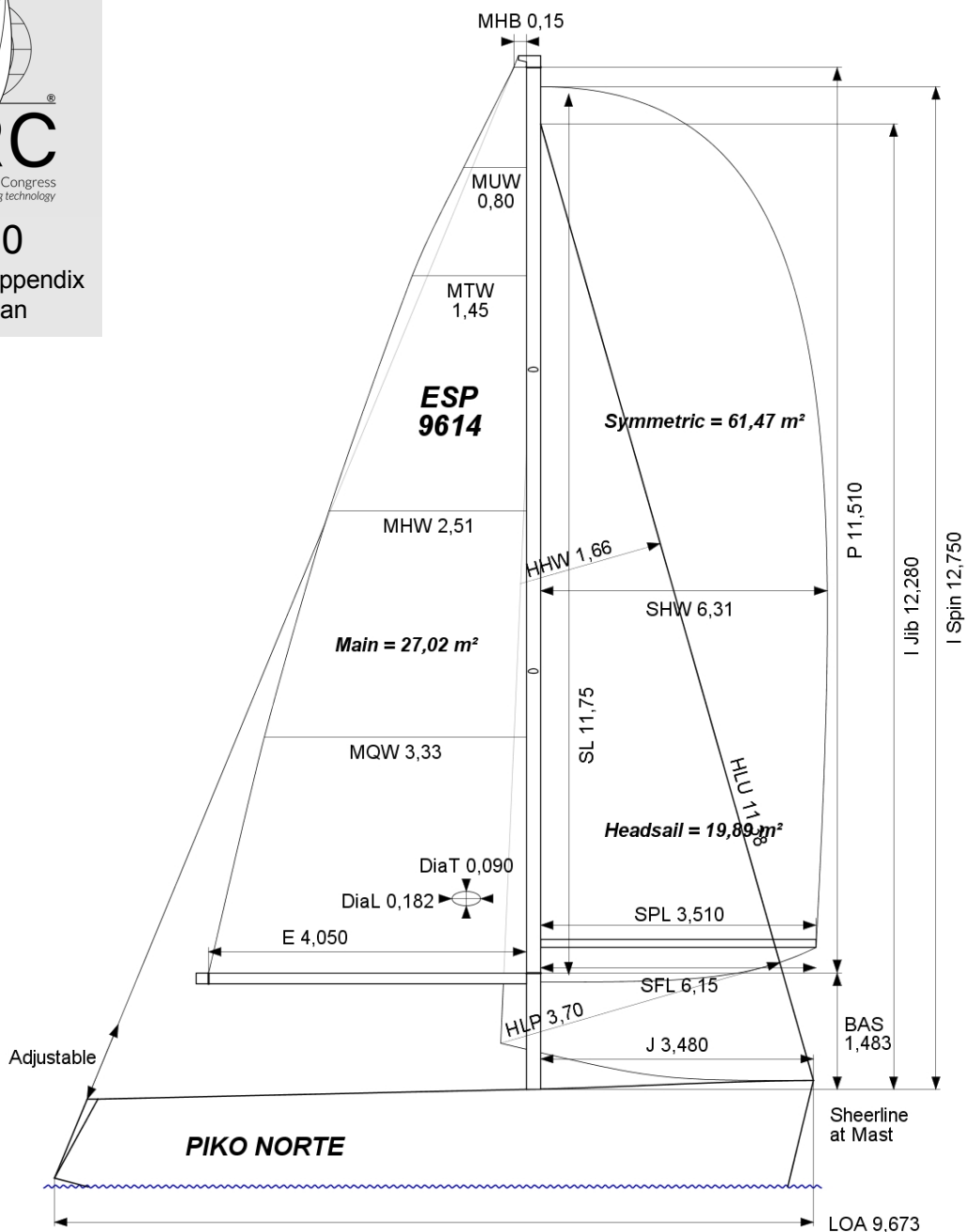


ORC

Offshore Racing Congress
World leader in rating technology

2020

Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
002	0.15	0.80	1.45	2.51	3.33	27.02		12/01/2017	GANDARA	Unknown	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
001	0.05	0.40	0.79	1.66	2.63	3.70	11.38	106%	19.89	Y	No		10/01/2018		Unknown	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
001	11.75	11.75	11.75	6.31	6.15	61.48		02/07/2010		Unknown	

ASYMMETRIC SPINNAKERS (0)

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