

BOAT Name BUENA Sail Nr POL 14859	GPH 702.0	HULL Length Overall 8.327m Maximum Beam 3.004m Displacement 2,751kg Draft 2.098m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.242% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class First 27.7 Designer Finot Builder Beneteau Series 01/2003, CIN FR-BEYB5083D303 Age 01/2003 Age Allowance 0.422% Offset File buena.off - 23/06/2016 11:06:48 Measurement by J.Gorski - 18/04/2008		IMSL 8.376m VCGD 0.431m Sink 13.97kg/mm RL 6.445m VCGM 0.145m WS 18.48m² LSM0 8.633m Displacement/Length ratio 4.2757



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	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	682.0			764.1		
Time On Time	0.8798			0.8834		
Performance Line	0.601	42.2		0.767	219.6	
Triple Number	Low 0.8330	Medium 1.0906	High 1.2188	Low 0.6416	Medium 0.8791	High 1.0147

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1211.0	987.2	872.9	831.7	812.7	798.0	793.6
52°	790.2	651.9	585.3	566.9	559.0	553.8	545.0
60°	742.0	616.0	562.3	546.7	540.2	536.8	527.3
75°	704.6	590.3	545.6	525.8	516.1	511.0	504.8
90°	706.4	583.9	547.7	523.8	504.1	488.7	477.0
110°	709.4	583.5	535.6	510.4	496.4	483.1	458.5
120°	738.0	601.9	543.5	513.4	484.8	467.1	444.1
135°	829.9	668.0	576.1	535.2	506.7	476.8	419.2
150°	975.3	765.8	644.8	570.3	534.0	506.9	451.6
Run VMG	1126.1	884.1	742.2	647.8	579.8	540.6	487.2

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Number **62**
ORC Ref **pol00000109**
Issued On **13/08/2016**
VPP Ver. **2016 1.01**
Valid until **31/12/2016**

Crew Weight

Declared **95kg**
Default* **558kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	699.5	0.8577
Double H.OSN	678.9	0.8838
Non Spin GPH	732.0	0.8197
Non Spin OSN	709.0	0.8462
N/S Perf. Line	16.6	0.543

Selected Courses							
Windward / Leeward	1168.6	935.6	807.6	739.8	696.3	669.3	640.4
Circular Random	973.3	782.1	680.2	621.9	586.8	564.2	535.6
Ocean for PCS	1194.4	918.8	764.3	670.9	610.9	569.4	512.2
Non Spinnaker	1029.9	821.2	708.3	642.7	602.8	577.3	547.0

Sails Limitations

Headsails	Spinnakers
5	3

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	42.8°	41.8°	41.0°	40.3°	39.9°	39.6°	41.2°
Beat VMG	2.97	3.65	4.12	4.33	4.43	4.51	4.54
52°	4.56	5.52	6.15	6.35	6.44	6.50	6.61
60°	4.85	5.84	6.40	6.59	6.66	6.71	6.83
75°	5.11	6.10	6.60	6.85	6.98	7.04	7.13
90°	5.10	6.17	6.57	6.87	7.14	7.37	7.55
110°	5.07	6.17	6.72	7.05	7.25	7.45	7.85
120°	4.88	5.98	6.62	7.01	7.43	7.71	8.11
135°	4.34	5.39	6.25	6.73	7.10	7.55	8.59
150°	3.69	4.70	5.58	6.31	6.74	7.10	7.97
Run VMG	3.20	4.07	4.85	5.56	6.21	6.66	7.39
Gybe Angles	146.8°	150.4°	153.5°	159.4°	180.0°	180.0°	180.0°

Class Division Length
CDL = **7.411**

Storm Sails Areas

Heavy Weather Jib	18.42
Storm Jib (JL=7.59)	6.82
Storm Triesail	8.08

Owner

BOAT	
Name BUENA	Sail Nr POL 14859
File buena.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 19/05/2008		SG 1.0000	
FFM 1.140	FF 1.161	SFFP 0.390	
FAM 0.835	FA 0.836	SAFP 8.140	
W1 13.7	PD1 86.0	WD 9.510	
W2 23.2	PD2 146.0	GSA 7.1	
W3 32.6	PD3 200.0	RSA 10387.	
W4 46.6	PD4 289.0	PLM 2300.0	
LCF from stem on CL / on sheer		4.890 / 5.104	
Maximum beam station from stem		5.790	
RM Measured		61.8kg-m	
RM Default		59.2kg-m	
Limit of positive stability / Stab.Index		106.5° / 102.7	
Freeboard at mast at 3.170		1.016	

RIG			
Forestay Tension Aft	Spreaders 1		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler Yes		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 10.965	E 4.210	MDT1 0.105	MW 0.161
IG 11.585	J 3.170	MDL1 0.161	GO 0.187
ISP 11.795	SFJ 0.000	MDT2 0.105	BD 0.112
BAS 1.395	SPL 3.100	MDL2 0.161	MWT
FSP 0.064	TPS	TL	MCG 4.240

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.332		
Type Feathering 2 blades	PBW 0.111		
Twin Screw No	PIPA 0.0028		
ST1 0.071	ST3 0.180	ST5 0.220	
ST2 0.180	ST4 0.090	EDL 1.866	

COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.150	0.86	1.55	2.68	3.53	27.26	27.89	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	49.75		SL · (SFL + 4·SHW) / 6	
	10.82	10.82	10.82	5.66	4.95				
Asymmetric	Not Available								

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
H HB	H UW	H TW	H HW	H QW	H LP	H LU	Area	Btn	Fly	Meas.Date	Material	Comment
0.08	0.49	0.92	1.74	2.56	3.34	10.74	18.53	Y		18/04/2015	Kevlar	laminat Contender ZZ09 black aramid
0.04	0.29	0.60	1.28	2.01	2.77	7.34	9.74			18/05/2015	Dacron	

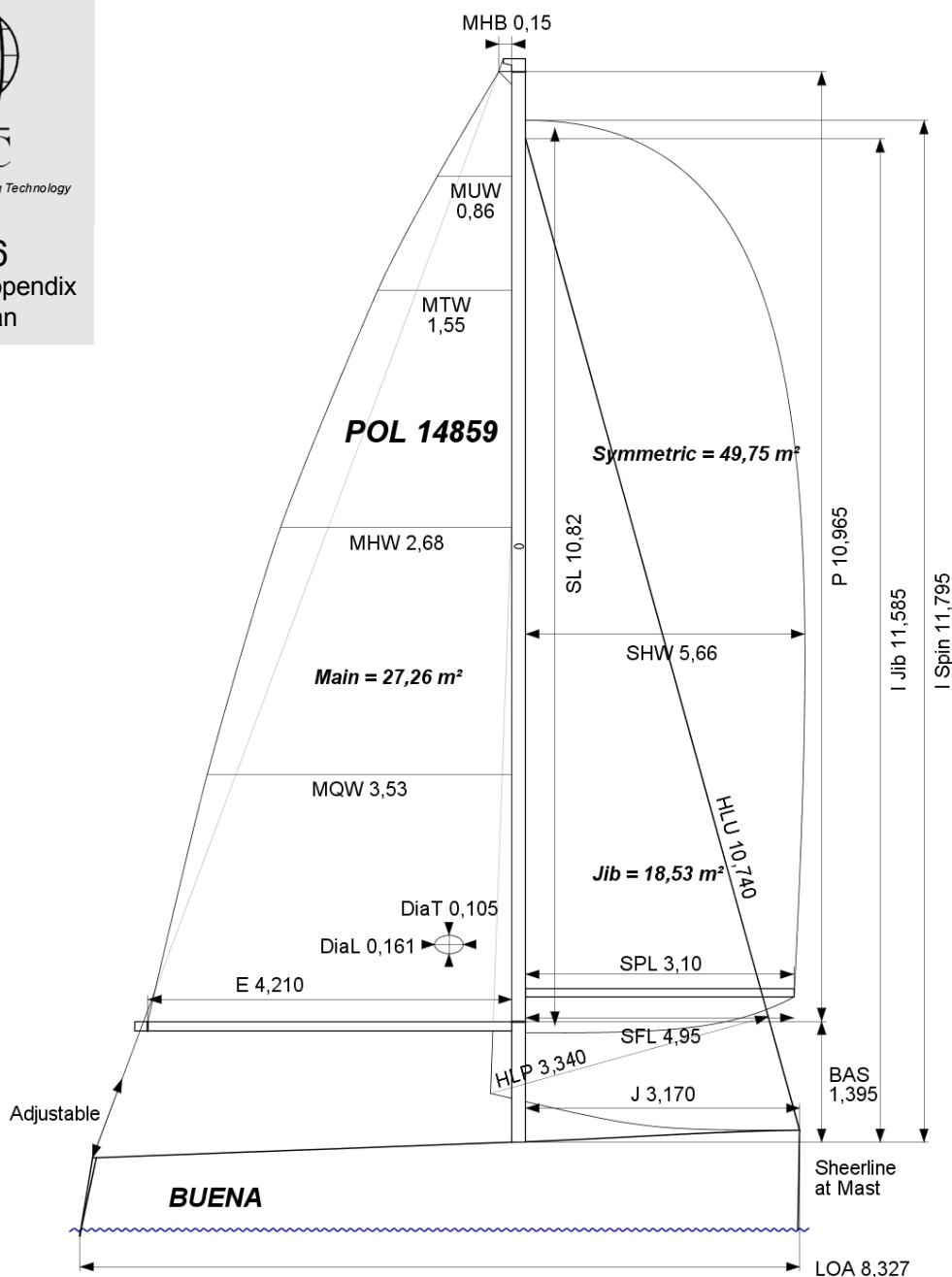
MEASUREMENT INVENTORY					
Measurer					
Date					
Comment					
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>
4	Anchor	9.0	1.00	0.50	
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>		
1	Engine	Yanmar	SD20		
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>			

MEASUREMENT INVENTORY								
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>
1	Tank fuel		pvc	30.0	6.40	0.00	19.5	
2	Tank water		pvc	50.0	2.00	0.00	40.0	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				



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Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.150	0.86	1.55	2.68	3.53	27.26	J.Gorski	18/04/2015	Ocean Sails	Kevlar	laminat Contender

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.08	0.49	0.92	1.74	2.56	3.34	10.74	105%	18.53	Y		J.Gorski	18/04/2015	Ocean Sails	Kevlar	laminat Contender
2	0.04	0.29	0.60	1.28	2.01	2.77	7.34	87%	9.74			J.Gorski	18/05/2015	Ocean Sails	Dacron	

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	10.85	10.80	10.82	5.66	4.95	49.78	J.Gorski	18/04/2015	Ocean Sails	Nylon	red

ASYMMETRIC SPINNAKERS

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