

BOAT Name ONESPIRIT Sail Nr BUL 7433	GPH 621.0	HULL Length Overall 10.300m Maximum Beam 3.536m Displacement 4,511kg Draft 1.897m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.065% Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class ITALIA 9.98 Designer POLLI Builder ITALIA YACHTS Series 09/2014, CIN IT-ILY99820L617 Age 04/2017 Age Allowance 0.195% Offset File IY998mp.off - 04/11/2015 14:00:04 Measurement by - 23/04/2018		IMSL 9.386m VCGD 0.069m Sink 17.63kg/mm RL 8.304m VCGM 0.069m WS 23.39m² LSM0 9.112m Displacement/Length ratio 5.9625



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	605.2			680.4		
Time on Time	0.9915			0.9920		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	710.4	550.5	490.0	926.2	682.6	597.0
Time on Time	0.9502	1.2261	1.3775	0.7288	0.9889	1.1306

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1063.2	876.4	774.9	732.8	718.3	710.7	707.0
52°	687.5	578.8	526.2	505.0	495.8	491.3	489.3
60°	645.7	551.1	510.4	491.4	479.1	472.8	468.9
75°	612.4	525.7	492.9	476.7	462.4	449.0	438.8
90°	588.7	511.2	480.1	456.2	438.3	428.4	412.8
110°	612.0	519.6	484.7	456.4	431.5	409.1	372.6
120°	648.3	535.0	489.8	460.5	432.6	407.8	365.6
135°	718.3	581.9	512.8	480.3	452.6	425.9	374.0
150°	852.7	675.9	570.6	511.2	481.2	455.5	407.1
Run VMG	984.6	780.5	658.3	580.9	527.6	492.6	443.2

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Number **005/20**
ORC Ref **038500001EF**
Issued On **17/05/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 603kg
Maximum **652kg**
Minimum* **489kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	655.6	0.9152
Non Spin OSN	636.9	0.9420

Selected Courses							
Windward / Leeward	1023.9	828.4	716.6	656.9	623.0	601.7	575.1
Circular Random	853.8	690.1	602.6	551.9	520.5	499.5	471.6
Coastal / Long Distance	1019.9	776.4	645.3	572.1	532.0	500.1	446.9
Non Spinnaker	915.2	733.4	635.2	577.8	542.6	519.6	490.1

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	43.9°	42.2°	41.3°	40.1°	40.9°	40.9°	40.9°
Beat VMG	3.39	4.11	4.65	4.91	5.01	5.07	5.09
52°	5.24	6.22	6.84	7.13	7.26	7.33	7.36
60°	5.58	6.53	7.05	7.33	7.51	7.61	7.68
75°	5.88	6.85	7.30	7.55	7.79	8.02	8.20
90°	6.12	7.04	7.50	7.89	8.21	8.40	8.72
110°	5.88	6.93	7.43	7.89	8.34	8.80	9.66
120°	5.55	6.73	7.35	7.82	8.32	8.83	9.85
135°	5.01	6.19	7.02	7.49	7.95	8.45	9.63
150°	4.22	5.33	6.31	7.04	7.48	7.90	8.84
Run VMG	3.66	4.61	5.47	6.20	6.82	7.31	8.12
Gybe Angles	145.0°	149.0°	151.0°	157.5°	180.0°	180.0°	179.8°

Class Division Length

CDL = **8.838**

Storm Sails Areas

Heavy Weather Jib **25.79**
Storm Jib (JL=8.99) **9.56**
Storm Trysail **10.88**

Owner

BOAT	
Name ONESPIRIT	Sail Nr BUL 7433
File GER7433	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 01/04/2017				SG 1.0140	
FFM	1.255	FF	1.258	SFFP	0.000
FAM	0.633	FA	0.637	SAFP	10.300
W1	50.0	PD1	487.5	WD	13.190
W2	50.0	PD2	488.8	GSA	1.0
W3	50.0	PD3	487.2	RSA	1.0
W4	50.0	PD4	487.3	PLM	9000.0
LCF from stem on CL / on sheer				5.585 / 5.813	
Maximum beam station from stem				7.304	
RM Measured				106.5kg-m	
RM Default				113.2kg-m	
Limit of positive stability / Stab.Index				119.0° / 115.8	
Freeboard at mast at 4.325				1.223	



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RIG					
Forestay Tension	Aft	Runners/Checkstays		0	
Inner Stay	None Fitted	Main Furler		No	
Carbon Mast	No	Jib Furler		No	
Fiber Rigging	Yes	Main Furler		No	
Non-Circular Rigging	No				
Articulated Bowsprit	No				
P	13.030	E	4.770	MDT1	0.124
IG	13.722	J	4.205	MDL1	0.188
ISP	13.842	SFJ	0.120	MDT2	0.122
BAS	1.507	SPL	4.195	MDL2	0.152
FSD	0.038	TPS	4.340	TL	0.460
				MW	0.185
				GO	0.215
				BD	0.098
				MWT	147.00
				MCG	4.785

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Strut	PRD	0.382
Type	Folding 2 blades	PBW	0.098
Twin Screw	No	PIPA	0.0040
ST1	0.070	ST3	0.180
ST2	0.180	ST4	0.110
		ST5	0.343
		EDL	1.280

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.36	1.06	1.78	2.98	3.94	36.68	37.42	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	13.71	13.71	13.71	7.56	6.71	84.43		SL · (SFL + 4·SHW) / 6	
Asymmetric	SLU	SLE	SL	SHW	SFL				
	14.18	12.21	13.20	5.06	6.69	59.22		AS · (SFL + 4·SHW) / 6	

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB), HS flying rated area = 30.04												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.10	0.73	1.39	2.48	3.45	4.32	13.63	32.15	Y	No	07/03/2018	Carbon	JLi-1
0.11	0.72	1.34	2.41	3.40	4.33	13.66	31.75	Y	No	06/07/2017	Carbon	MED/HEAVY 2017 - ODE2620-003
0.09	0.68	1.30	2.41	3.41	4.33	13.63	31.55	Y	No	15/04/2019	Kevlar	JMi-2
0.10	0.68	1.30	2.41	3.41	4.32	13.58	31.42	Y	No	15/04/2019	Kevlar	JLi-2
0.10	0.56	1.05	2.05	3.10	4.13	11.76	24.41	Y	No	15/04/2019	Carbon	HEAVY 2017
0.06	0.44	0.82	1.62	2.39	3.17	9.97	16.04	Y	Yes	15/04/2019	Spectra	SS 2017 - ODE2620-005

MEASUREMENT INVENTORY				
Measurer 106				
Date 01/04/2017				
Comment Stickenhorn				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	Volvo Penta	D1-20	
Id	Item	Weight Description		

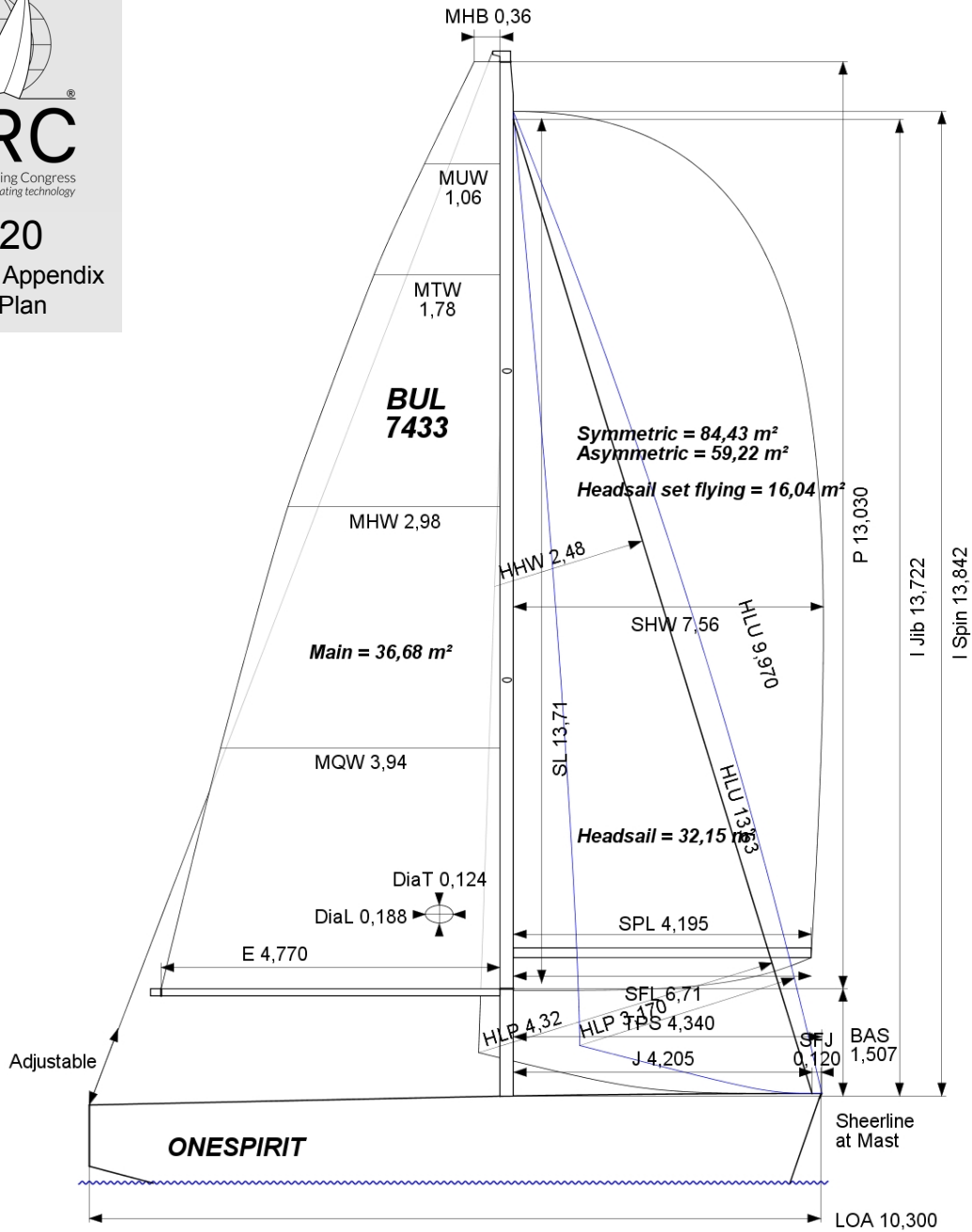
MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
1	Tank	Water	PVC	110.0	4.32		0-0	Water	
2	Tank	Diesel	PVC	61.0	7.58		8-0	Diesel	
3	Tank	Waste	PVC	25.0	7.58		0-0	Waste	
Id	Item	Weight	Distance	VCG Description					
1	Battery	21.0	4.63	Mastervolt AGM 70 Ah					
2	Battery	21.0	4.83	Mastervolt AGM 70 Ah					



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Sail Plan



SAILS INVENTORY

MAINSAIL (2)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
168894	0.36	1.06	1.78	2.98	3.94	36.68		15/04/2019	NORTH	Kevlar	MNI-2
161614	0.33	1.15	1.79	2.93	3.89	36.51		13/03/2018	NORTH	Carbon	MNI-1

HEADSAILS (6)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
161603	0.10	0.73	1.39	2.48	3.45	4.32	13.63	103%	32.15	Y	No		07/03/2018	NORTH	Carbon	JLi-1
161606	0.11	0.72	1.34	2.41	3.40	4.33	13.66	103%	31.75	Y	No		06/07/2017	NORTH	Carbon	MED/HEAVY 2017 -
168884	0.09	0.68	1.30	2.41	3.41	4.33	13.63	103%	31.55	Y	No		15/04/2019	NORTH	Kevlar	JMi-2
168890	0.10	0.68	1.30	2.41	3.41	4.32	13.58	103%	31.42	Y	No		15/04/2019	NORTH	Kevlar	JLi-2
WS6131	0.10	0.56	1.05	2.05	3.10	4.13	11.76	98%	24.41	Y	No		15/04/2019	NORTH	Carbon	HEAVY 2017
0	0.06	0.44	0.82	1.62	2.39	3.17	9.97	75%	16.04		Yes		15/04/2019	NORTH	Spectra	SS 2017 -

SYMMETRIC SPINNAKERS (3)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
160649	13.71	13.71	13.71	7.56	6.71	84.44		30/04/2019	NORTH	Nylon	S4
161521	13.64	13.64	13.64	7.39	6.69	82.41		07/03/2018	NORTH	Nylon	S2
160659	13.63	13.63	13.63	7.24	6.98	81.65		15/04/2019	NORTH	Nylon	S-2B

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
166078	14.18	12.21	13.20	5.06	6.69	59.23	asy76		14/05/2019	QUANTUM	Nylon	A5 2018