

BOAT	GPH	HULL
Name VICHINGO Sail Nr 17261	613.4	Length Overall 10.300m Maximum Beam 3.536m Displacement 4,812kg Draft 1.913m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.119% Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 9.465m VCGD 0.112m Sink 18.06kg/mm RL 8.302m VCGM 0.095m WS 23.93m² LSM0 9.204m Displacement/Length ratio 6.1716
Class ITALIA 998 F Designer POLLI Builder ITALIA YACHTS Series 09/2014 Age 11/2016 Age Allowance 0.195% Offset File IY998MP.off - 04/11/2015 14:00:04 Measurement by - 12/03/2018		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	600.6			676.6		
Time on Time	0.9990			0.9977		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	696.1	545.3	489.1	911.4	677.0	596.2
Time on Time	0.9697	1.2379	1.3802	0.7406	0.9971	1.1322

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1072.4	886.6	782.1	732.9	716.9	711.5	705.6
52°	694.7	584.9	530.0	506.7	498.2	494.6	491.5
60°	652.4	556.0	513.6	493.7	483.3	478.9	476.7
75°	591.3	516.4	492.2	480.6	466.2	454.4	446.3
90°	565.8	501.7	474.7	457.1	445.0	435.8	418.0
110°	581.1	506.0	473.6	447.9	424.0	405.1	381.7
120°	608.3	512.5	476.4	446.5	420.3	403.6	366.5
135°	688.2	549.2	493.8	464.3	435.2	408.1	350.2
150°	811.5	649.2	546.9	499.6	476.8	453.8	400.3
Run VMG	937.1	749.7	631.5	575.0	525.0	491.2	443.4
Selected Courses							
Windward / Leeward	1004.8	818.1	706.8	653.9	620.9	601.4	574.5
Circular Random	837.5	679.4	595.6	547.4	517.8	498.1	470.8
Coastal / Long Distance	998.0	765.5	636.7	567.8	530.1	501.4	449.3
Non Spinnaker	922.9	739.1	639.4	581.1	545.2	522.0	493.2

Certificate

Number **US6442**
ORC Ref **03410000PHM**
Issued On **01/09/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default **612kg**
Maximum **680kg**
Minimum* **510kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 660.1	0.9090
Non Spin OSN 640.6	0.9366

Sails Limitations

Headsails 5	Spinnakers 4
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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	43.5°	42.0°	41.3°	40.1°	40.5°	40.5°	40.5°
Beat VMG	3.36	4.06	4.60	4.91	5.02	5.06	5.10
52°	5.18	6.15	6.79	7.10	7.23	7.28	7.32
60°	5.52	6.47	7.01	7.29	7.45	7.52	7.55
75°	6.09	6.97	7.31	7.49	7.72	7.92	8.07
90°	6.36	7.18	7.58	7.88	8.09	8.26	8.61
110°	6.19	7.11	7.60	8.04	8.49	8.89	9.43
120°	5.92	7.02	7.56	8.06	8.56	8.92	9.82
135°	5.23	6.56	7.29	7.75	8.27	8.82	10.28
150°	4.44	5.54	6.58	7.21	7.55	7.93	8.99
Run VMG	3.84	4.80	5.70	6.26	6.86	7.33	8.12
Gybe Angles	144.0°	148.0°	148.0°	151.0°	180.0°	180.0°	180.0°

Class Division Length

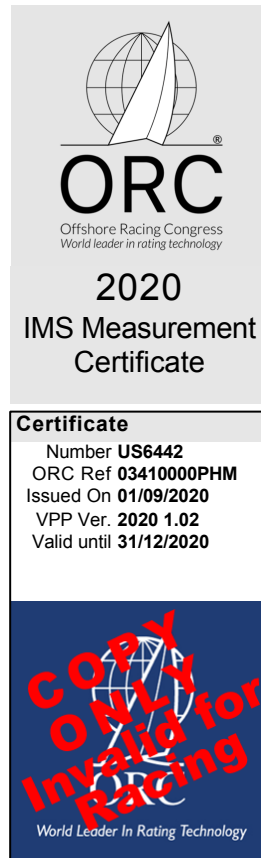
CDL = **8.878**

Storm Sails Areas

Heavy Weather Jib **25.63**
Storm Jib (JL=8.96) **9.50**
Storm Trysail **10.86**

Owner

BOAT										INCLINING TEST AND FREEBOARDS									
Name VICHINGO					Sail Nr 17261					Inclining Test Current Inclining									
File US6442					Data in meters/kilograms					Flotation date 12/03/2018					SG 1.0240				
RIG										FFM 1.255 FF 1.255 SFFP 0.000 FAM 0.607 FA 0.607 SAFF 10.300									
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										W1 69.4 PD1 555.1 WD 11.060 W2 69.4 PD2 556.9 GSA 1.0 W3 69.4 PD3 554.3 RSA 1.0 W4 69.4 PD4 558.1 PLM 9000.0									
P 13.000 E 4.770 MDT1 0.125 MW 0.185 IG 13.728 J 4.190 MDL1 0.185 GO 0.200 ISP 14.823 SFJ 0.100 MDT2 0.125 BD 0.220 BAS 1.518 SPL 4.190 MDL2 0.156 MWT 143.40 FSD 0.038 TPS 5.468 TL 0.770 MCG 5.030										LCF from stem on CL / on sheer 5.638 / 5.868 Maximum beam station from stem 7.304 RM Measured 108.7kg-m RM Default 117.0kg-m Limit of positive stability / Stab.Index 116.8° / 114.7 Freeboard at mast at 4.290 1.210									
MIZZEN RIG AND SAILS										PROPELLER									
N/A										Installation Strut PRD 0.380 Type Folding 2 blades PBW 0.120 Twin Screw No PIPA 0.0039									
										ST1 0.065 ST3 0.180 ST5 0.350 ST2 0.180 ST4 0.110 EDL 1.000									
COMMENTS										MOVABLE BALLAST									
										N/A									
										CENTERBOARD									
										N/A									
SAILS (Maximum Areas)																			
Mainsail						MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula						
						0.27	1.06	1.77	2.92	3.91	36.20	36.92	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)						
Symmetric						SLU	SLE	SL	SHW	SFL									
						14.64	14.64	14.64	7.73	7.47	93.67		SL · (SFL + 4·SHW) / 6						
Asymmetric on centerline						SLU	SLE	SL	SHW	SFL									
						16.90	14.90	15.90	9.88	9.67	130.35		AS · (SFL + 4·SHW) / 6						
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	Flying	Meas.Date	Material	Comment							
0.10	0.76	1.41	2.48	3.44	4.43	13.54	32.24	N	No	12/03/2018	Unknow								
0.16	0.67	1.20	2.22	3.22	4.32	13.21	29.24	Y	No	10/03/2017	Carbon	J3							
0.12	0.70	1.27	2.28	2.33	4.34	13.79	28.17		No	12/07/2019	Unknow	Fusion MR5300 JIB							
MEASUREMENT INVENTORY										MEASUREMENT INVENTORY									
Measurer 149 Date 12/03/2018 Comment Internal Ballast total = 0.0										Id Item Weight Distance VCG Description									
Id Item Weight Distance VCG Description																			
Id Item Weight Description																			



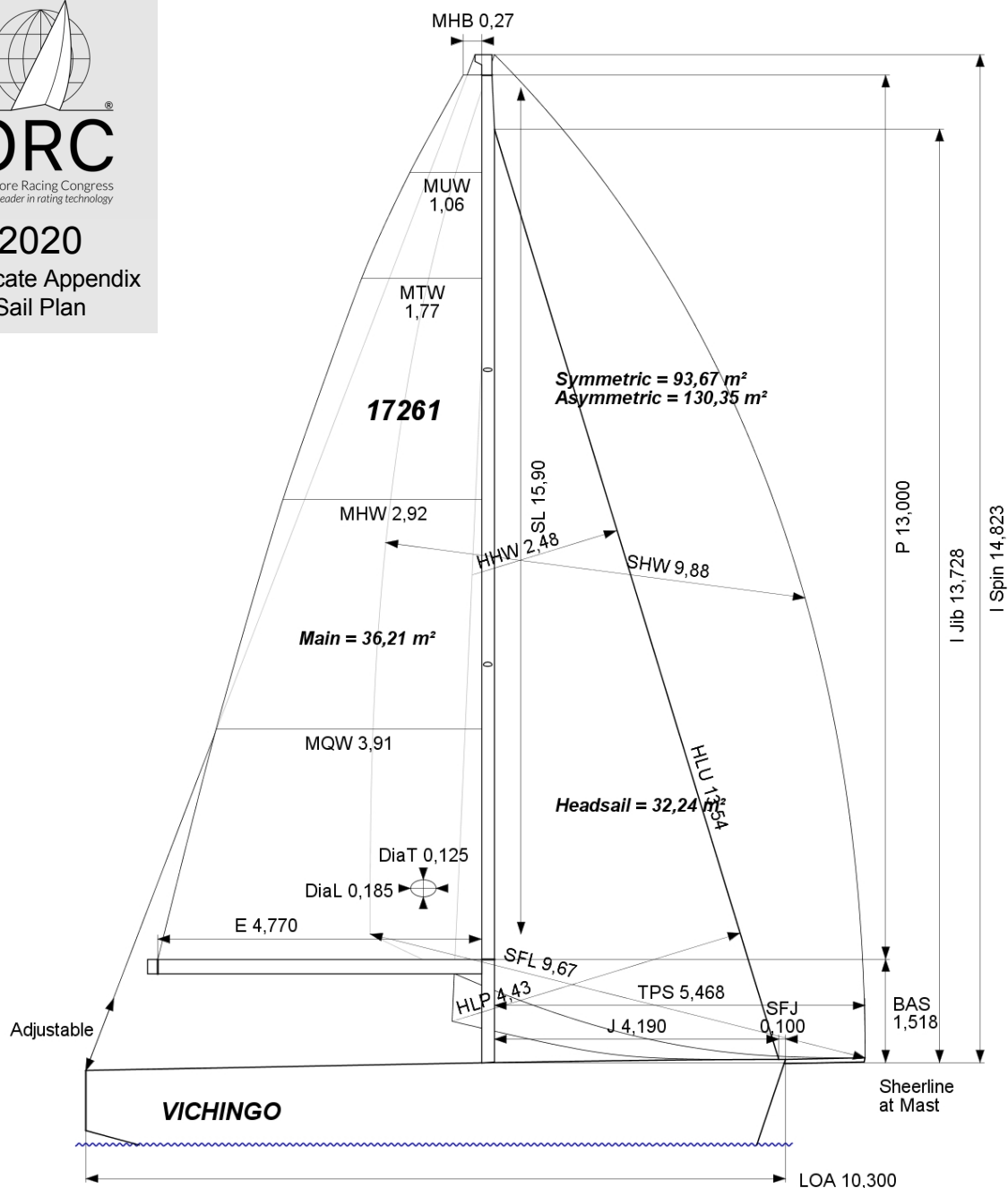


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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Meas.Date	Manufacture	Material	Comment
2020 Main	0.27	1.06	1.77	2.92	3.91	36.21							

HEADSAILS (3)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Meas.Date	Manufacture	Material	Comment
D	0.10	0.76	1.41	2.48	3.44	4.43	13.54	106%	32.24	12/03/2018	QUANTUM	Unknown	
A	0.16	0.67	1.20	2.22	3.22	4.32	13.21	103%	29.24	10/03/2017	QUANTUM	Carbon	J3
2020 JIB	0.12	0.70	1.27	2.28	2.33	4.34	13.79	104%	28.17	12/07/2019	QUANTUM	Unknown	Fusion MR5300 JIB

SYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Meas.Date	Manufacture	Material	Comment
B	14.64	14.64	14.64	7.73	7.47	93.68	10/03/2017	QUANTUM	Nylon	S1,5
A	14.51	14.51	14.51	7.76	7.54	93.30	10/03/2017	QUANTUM	Nylon	S2

ASYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Meas.Date	Manufacture	Material	Comment
2020 A2	16.90	14.90	15.90	9.88	9.67	130.36	asym		QUANTUM	Unknown	
2020 A0	15.32	14.45	14.89	6.75	8.99	89.29	asym		QUANTUM	Unknown	