BOAT

Name **VICHINGO**
Sail Nr **17261**

GPH

614.0

GENERAL

Class	**ITALIA 998 F**
Designer	**POLLI**
Builder	**ITALIA YACHTS**
Series	**09/2014**
Age	**11/2016**
Age Allow ance	**0.195%**
Offset File	**IY998MP.off - 04/11/2015 14:00:04**
Measurement by	**- 12/03/2018**

HULL

Length Overall	**10.300m**
Maximum Beam	**3.536m**
Displacement	**4,812kg**
Draft	**1.913m**
Plan Review	
IMS Reg. Division	**Cruiser/Racer**
Dynamic Allow ance	**0.139%**
Hull Construction	**Cored**
Carbon Rudder	**No**
Crew Arm Extension	

IMSL	**9.465m**	VCGD	**0.112m**	Sink	**18.06kg/mm**
RL	**8.274m**	VCGM	**0.095m**	WS	**23.93m²**
LSM0	**9.204m**	Displacement/Length ratio			**6.1716**

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SCORING OPTIONS

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	**601.2**			**677.4**		
Time on Time	**0.9980**			**0.9965**		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	**697.2**	**545.8**	**489.3**	**913.4**	**677.9**	**596.6**
Time on Time	**0.9682**	**1.2367**	**1.3795**	**0.7390**	**0.9957**	**1.1314**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	**1076.9**	**889.9**	**784.7**	**734.1**	**717.9**	**712.4**	**706.2**
52°	**697.1**	**586.9**	**531.2**	**507.4**	**498.5**	**494.9**	**491.7**
60°	**653.4**	**556.2**	**514.5**	**494.2**	**483.5**	**479.1**	**476.9**
75°	**591.3**	**516.4**	**492.2**	**480.8**	**466.6**	**454.7**	**446.4**
90°	**565.8**	**501.7**	**474.7**	**457.1**	**445.0**	**435.9**	**418.3**
110°	**581.1**	**506.0**	**473.6**	**447.9**	**424.0**	**405.1**	**381.7**
120°	**608.3**	**512.5**	**476.3**	**446.5**	**420.3**	**403.7**	**366.5**
135°	**688.1**	**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	**1007.0**	**819.8**	**708.1**	**654.5**	**621.4**	**601.8**	**574.8**
Circular Random	**838.6**	**680.3**	**596.2**	**547.8**	**518.1**	**498.3**	**471.0**
Coastal / Long Distance	**1000.0**	**766.8**	**637.7**	**568.2**	**530.4**	**501.6**	**449.5**
Non Spinnaker	**925.6**	**740.9**	**640.7**	**582.0**	**546.0**	**522.6**	**493.6**

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	**3.34**	**4.05**	**4.59**	**4.90**	**5.01**	**5.05**	**5.10**
52°	**5.16**	**6.13**	**6.78**	**7.09**	**7.22**	**7.27**	**7.32**
60°	**5.51**	**6.47**	**7.00**	**7.28**	**7.45**	**7.51**	**7.55**
75°	**6.09**	**6.97**	**7.31**	**7.49**	**7.71**	**7.92**	**8.07**
90°	**6.36**	**7.18**	**7.58**	**7.88**	**8.09**	**8.26**	**8.61**
110°	**6.20**	**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°**

Certificate

Number **US6442**
ORC Ref **03410000QWD**
Issued On **28/09/2020**
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	**661.5**	**0.9070**
Non Spin OSN	**641.8**	**0.9349**

Sails Limitations

Headsails	Spinnakers
5	**4**

Class Division Length

CDL = **8.864**

Storm Sails Areas

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

Owner

BOAT

Name **VICHINGO** Sail Nr **17261**
File **US6442** Data in **meters/kilograms**

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**		

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**

INCLINING TEST AND FREEBOARDS

Inclining Test **Current Inclining**
Flotation date **12/03/2018** SG **1.0240**

FFM	**1.255**	FF	**1.255**	SFFP	**0.000**
FAM	**0.607**	FA	**0.607**	SAFP	**10.300**
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**

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	**116.8kg·m**
Limit of positive stability / Stab.Index	**116.8° / 114.7**
Freeboard at mast at 4.290	**1.210**

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MIZZEN RIG AND SAILS

N/A

PROPELLER

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**

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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	**SLU**	**SLE**	**SL**	**SHW**	**SFL**			
on centerline	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
0.12	0.73	1.30	2.30	3.34	4.34	13.79	31.48		No	23/09/2020	Unknow	FUSION MR 5300

MEASUREMENT INVENTORY

Measurer **149**
Date **12/03/2018**
Comment
Internal Ballast total = 0.0

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*

Id	*Item*	*Weight*	*Description*

MEASUREMENT INVENTORY

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*

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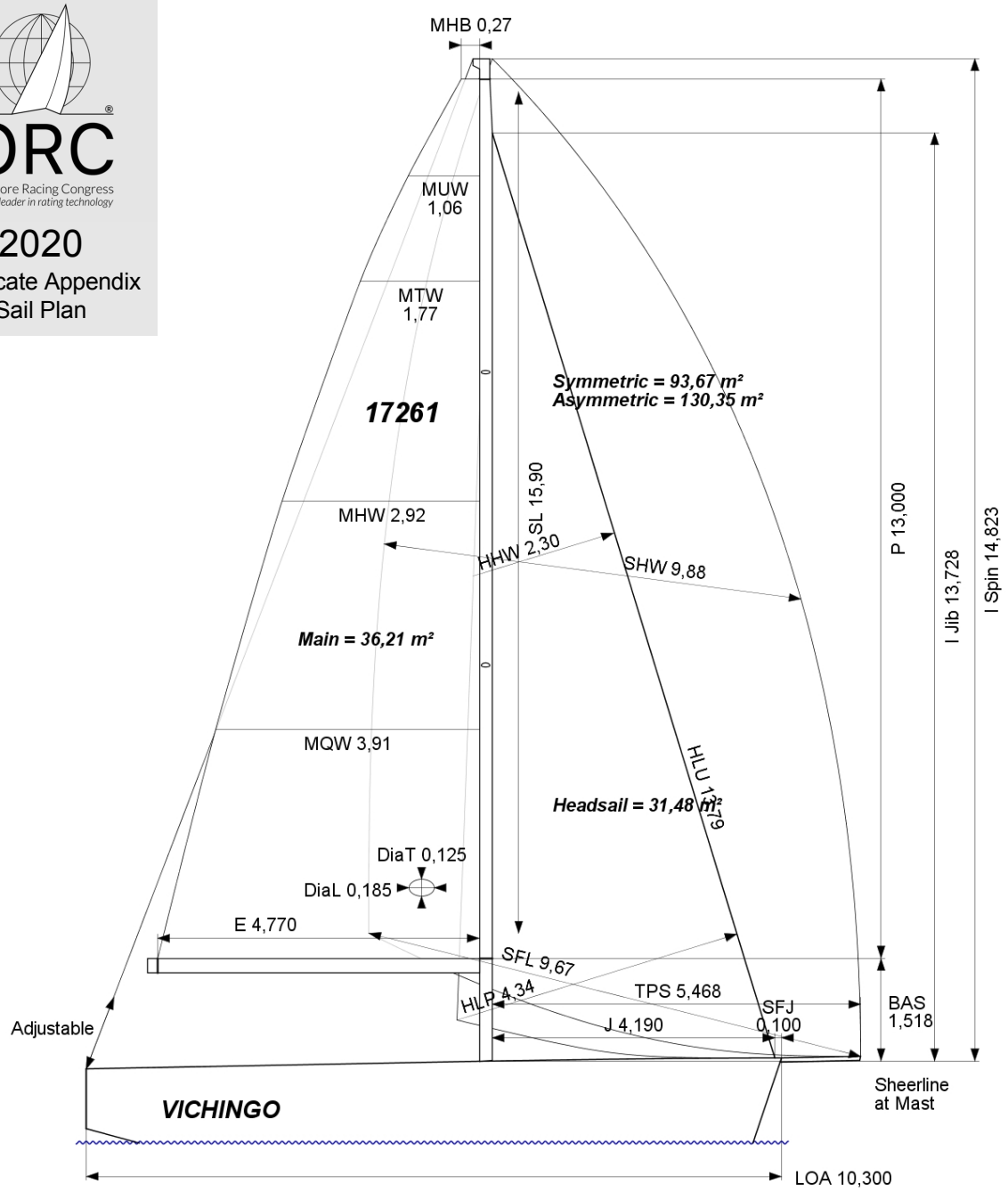
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2020 Main	0.27	1.06	1.77	2.92	3.91	36.21			Quantum	Unknown	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
138727	0.12	0.73	1.30	2.30	3.34	4.34	13.79	104%	31.48		No		23/09/2020	QUANTUM	Unknow	FUSION MR 5300

SYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	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	Measurer	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	asy76			Quantum	Unknown	