

GPH = 619.3 **CDL = 8.836**

BOAT

Class **ITALIA 9.98**
Designer **POLLI**
Builder **ITALIA YACHTS**
Age Date **10/2016**
Series Date **09/2014**
Offset File **IY998.off**

HULL

Length Overall **10.300 m**
Maximum Beam **3.536 m**
Draft **1.908 m**
Displacement **4,690 kg**
DLR **6.0521**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.036%**
Age Allowance **0.228%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.380m**

CREW

Maximum weight **640 kg**
Minimum weight **480 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	37.96	38.85
Headsail Luffed	32.85	32.85
Headsail Flying		
Symmetric	97.11	97.11
Asymmetric		

SAIL LIMITATIONS

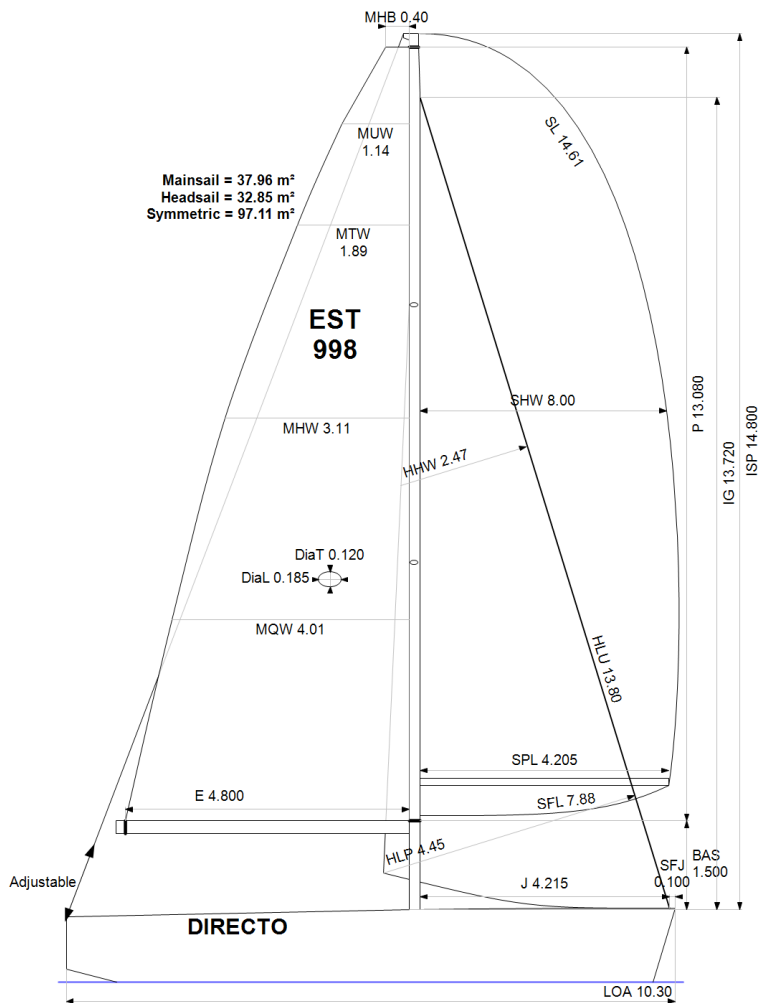
Headsails **5**
Spinnakers **4**

STABILITY

Righting Moment **107.4 kg·m**
Stability Index **115.3**

OWNER

The owner certifies that he/she understands his/her responsibilities under ORC Rule and Regulations.



Rated boat velocities in knots

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°	39.8°	40.9°	41.3°
Beat VMG	3.42	4.14	4.66	4.89	4.98	5.00	5.05
52°	5.28	6.25	6.85	7.11	7.20	7.24	7.32
60°	5.61	6.55	7.06	7.32	7.43	7.49	7.56
75°	5.89	6.79	7.22	7.52	7.76	7.91	8.02
90°	5.82	6.79	7.30	7.57	7.89	8.20	8.62
110°	5.82	6.94	7.48	7.92	8.25	8.50	8.94
120°	5.67	6.83	7.41	7.89	8.39	8.85	9.43
135°	5.14	6.34	7.13	7.59	8.06	8.57	9.82
150°	4.36	5.47	6.46	7.14	7.56	8.00	8.97
Run VMG	3.77	4.74	5.60	6.30	6.91	7.37	8.20
Gybe Angles	145.0°	148.5°	151.0°	158.0°	180.0°	180.0°	180.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1052.5	870.0	773.1	735.7	723.1	719.6	712.9
52°	682.4	576.0	525.6	506.1	499.7	497.1	492.0
60°	641.9	549.3	509.9	492.0	484.4	480.9	476.5
75°	611.2	530.5	498.4	479.0	464.0	455.1	448.8
90°	618.1	530.0	493.3	475.6	456.6	439.0	417.8
110°	618.4	518.9	481.4	454.6	436.1	423.6	402.5
120°	634.6	526.7	485.5	456.5	429.0	406.8	381.7
135°	699.8	567.6	505.0	474.5	446.5	419.9	366.8
150°	826.1	658.3	557.6	504.1	475.9	450.0	401.4
Run VMG	953.9	760.2	643.2	571.2	521.1	488.3	439.1
Selected Courses							
Windward / Leeward	1003.2	815.1	708.1	653.5	622.1	603.9	576.0
All purpose	770.6	637.2	569.6	535.4	513.2	499.1	476.4

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	682.9	0.8786
All purpose	553.2	1.0846

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	603.2	0.9948
Triple Number Coastal/Long Distance Low	703.9	0.8524
Triple Number Coastal/Long Distance Medium	549.8	1.0914
Triple Number Coastal/Long Distance High	494.1	1.2143
Triple Number Windward/Leeward Low	909.1	0.6600
Triple Number Windward/Leeward Medium	677.3	0.8859
Triple Number Windward/Leeward High	598.0	1.0034

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	998.3	765.3	639.8	571.9	534.2	503.7	453.4



Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	ITALIA 9.98	LOA	10.300	VCGD	0.103
Measurement	17/04/2019	Max. Beam	3.536	VCGM	0.092
Measurer		Draft	1.908	RM Measured (kg·m)	107.4
HIN		Displacement	4.690	RM Default (kg·m)	116.5
Plan review		Wetted area	23.72	Limit of positive stability(°)	117.9
Hull construction	Cored	IMS L	9.452	Stability Index	115.3
Carbon Rudder	No	LSM0	9.185		
Light stanchions	No	Acc. length	10.300		
Trim tab	No	Sink (kg/mm)	17.86		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.380	EDL	1.250	ST3	0.180
Installation	Strut	PBW	0.100	ST1	0.065	ST4	0.110
Twin screw	No			ST2	0.180	ST5	0.343
PIPA	0.0039						

RIG

Forestay tension	Aft	P	13.080	E	4.800
Inner stay	None Fitted	IG	13.720	J	4.215
Carbon mast	No	ISP	14.800	BAS	1.500
Headsail furler	No	MDT1	0.120	FSD	0.038
Mainsail furler	No	MDL1	0.185	SFJ	0.100
Articulated bowsprit	No	MDT2	0.120	SPL	4.205
Non-circular rigging	No	MDL2	0.155	TPS	
Fiber rigging	No	TL	0.800	BD	0.220
Runners/Checkstays	0	MW	0.183	MWT	144.10
Spreaders	2	GO	0.201	MCG	4.990

FLOTATION AND STABILITY

Inclining Test	Poles Inclining	SFFP	0.000	SAFP	10.300	W1	60.5	PD1	523.3	WD	11.810
Flotation Date	28/06/2018	FFM	1.243	FAM	0.612	W2	60.5	PD2	523.8	PLM	9000.00
Measurer		FF	1.246	FA	0.627	W3	60.5	PD3	523.8	GSA	1.0
Comment		LCFcl	5.596	LCFsh	5.822	W4	60.5	PD4	524.3	RSA	1.0
		SG	1.0000	HBI	1.224						

MEASUREMENT INVENTORY

Id	Tank Type	Capacity	LCG	VCG	Condition	Description
1	Water PVC	110.0	4.30		0-0	Water
2	Diesel PVC	61.0	7.50		64-0	Diesel
3	Waste PVC	25.0	7.60		0-0	Waste
Id	Item Description	Weight	LCG	VCG		
1	Battery 70 Ah		4.30			
2	Battery 70 Ah		4.30			

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
2	0.40	1.14	1.89	3.11	4.01	37.96		10/07/2021	North	Unknown	2021
1	0.36	1.05	1.77	2.96	3.90	36.63		13/07/2017	NORTH	Unknown	

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
8	0.11	0.79	1.43	2.47	3.40	4.45	13.80	Yes	No		32.85		03/07/2021	North	Unknown	Light 2021
6	0.12	0.79	1.41	2.46	3.43	4.40	13.60	Yes	No		32.28		10/07/2016	ONE SAILS	Unknown	JXL
9	0.10	0.75	1.39	2.41	3.34	4.43	13.80	Yes	No		32.27		02/07/2021	North	Unknown	Medium 2021
7	0.12	0.77	1.41	2.49	3.41	4.40	13.44	Yes	No		31.90		10/07/2016	ONE SAILS	Unknown	JL
4b	0.11	0.71	1.32	2.44	3.45	4.39	13.40	Yes	No		31.46		24/04/2018	NS	Unknown	JibTop 3DL
5	0.12	0.73	1.36	2.41	3.33	4.39	13.42	No	No		31.18		17/04/2019		Unknown	
2b	0.12	0.73	1.36	2.39	3.33	4.36	13.47	Yes	No		31.17		24/04/2018	NS	Unknown	Medium 3Di
3	0.08	0.59	1.13	2.22	3.29	4.35	13.57	Yes	No		29.97		22/11/2016	NORTH	Unknown	Heavy

SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Maker	Material	Comment
4	14.61	14.61	14.61	8.00	7.88	97.11		12/07/2021	NORTH	Unknown	2021
2	13.76	13.76	13.76	7.81	7.50	88.84		23/11/2016	NORTH	Nylon	S2
1	13.86	13.86	13.86	7.68	7.58	88.47		23/11/2016	NORTH	Nylon	S1.5
3	13.76	13.76	13.76	7.19	7.60	83.39		22/11/2016	NORTH	Unknown	S3