

GPH = 615.7 **CDL = 8.827**

BOAT

Class **ITALIA 9.98 F**
 Designer **POLLI**
 Builder **ITALIA YACHTS**
 Age Date **04/2016**
 Series Date **09/2014**
 Offset File **IY998.off**

HULL

Length Overall **10.300 m**
 Maximum Beam **3.536 m**
 Draft **1.891 m**
 Displacement **4,410 kg**
 DLR **5.9474**
 IMS Division **Cruiser/Racer**
 Dynamic Allowance **0.031%**
 Age Allowance **0.228%**

PROPELLER

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

CREW

Maximum weight **630 kg**
 Minimum weight **473 kg * when applied**
 Non Manual Power **No**
 Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	37.75	38.64
Headsail Luffed	31.79	31.79
Headsail Flying		
Symmetric		
Asymmetric	110.05	110.05

** All asymmetric spinnakers with SHW/SFL > 85%*

SAIL LIMITATIONS

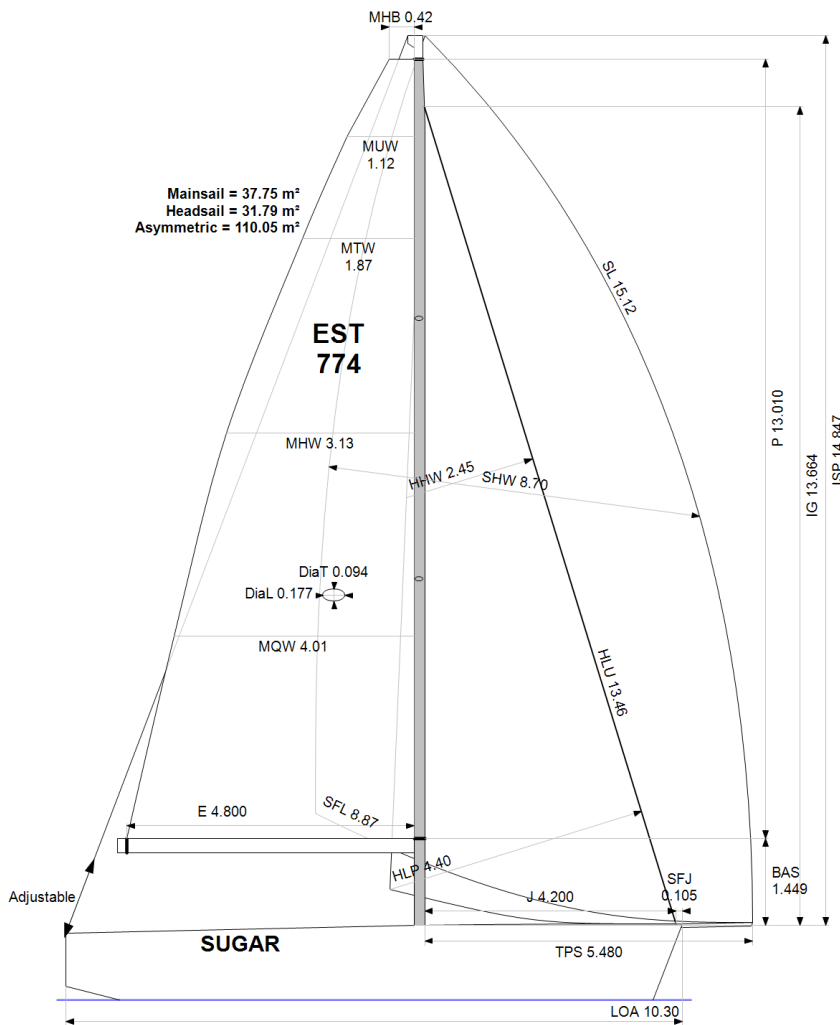
Headsails **5**
 Spinnakers **4** * Asymmetric SHALL NOT be tacked on the pole

STABILITY

Righting Moment **105.8 kg·m**
 Stability Index **116.1**

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	43.9°	42.0°	40.9°	39.9°	40.5°	40.5°	41.1°
Beat VMG	3.43	4.16	4.68	4.92	5.01	5.04	5.08
52°	5.29	6.27	6.87	7.14	7.23	7.27	7.34
60°	5.62	6.57	7.08	7.34	7.46	7.52	7.60
75°	5.90	6.80	7.24	7.55	7.81	7.97	8.09
90°	5.89	6.94	7.37	7.60	7.94	8.27	8.71
110°	6.01	7.07	7.60	8.08	8.39	8.63	9.14
120°	5.85	6.97	7.53	8.05	8.59	9.04	9.70
135°	5.22	6.47	7.23	7.70	8.23	8.79	10.28
150°	4.41	5.53	6.52	7.15	7.51	7.86	8.85
Run VMG	3.82	4.79	5.65	6.20	6.56	7.10	7.84
Gybe Angles	144.0°	147.8°	148.5°	150.8°	174.0°	177.0°	177.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1050.4	866.4	769.2	732.1	718.7	715.0	708.4
52°	680.8	574.1	524.0	504.5	498.1	495.5	490.2
60°	640.2	547.8	508.6	490.5	482.5	478.6	473.8
75°	609.8	529.3	497.3	477.0	460.9	451.4	444.9
90°	611.1	518.9	488.4	473.4	453.4	435.1	413.5
110°	599.3	509.1	473.7	445.8	429.2	417.4	394.0
120°	614.9	516.2	478.3	447.0	419.1	398.2	371.1
135°	690.0	556.1	498.2	467.3	437.3	409.7	350.2
150°	815.6	651.1	551.8	503.3	479.3	457.8	406.8
Run VMG	941.8	751.8	637.2	580.5	548.9	507.3	459.0
Selected Courses							
Windward / Leeward	996.1	809.1	703.2	656.3	633.8	611.1	583.7
All purpose	763.0	630.7	564.9	533.3	514.3	499.5	475.6

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	685.3	0.8755
All purpose	550.8	1.0894

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	600.6	0.9990
Triple Number Coastal/Long Distance Low	696.9	0.8610
Triple Number Coastal/Long Distance Medium	547.2	1.0965
Triple Number Coastal/Long Distance High	494.2	1.2140
Triple Number Windward/Leeward Low	902.7	0.6647
Triple Number Windward/Leeward Medium	679.0	0.8836
Triple Number Windward/Leeward High	606.5	0.9893

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	990.7	759.0	634.9	570.2	534.6	503.0	451.3

Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	ITALIA 9.98 F	LOA	10.300	VCGD	0.060
Measurement	14/08/2019	Max. Beam	3.536	VCGM	0.066
Measurer		Draft	1.891	RM Measured (kg·m)	105.8
HIN		Displacement	4.410	RM Default (kg·m)	112.3
Plan review		Wetted area	23.24	Limit of positive stability(°)	119.7
Hull construction	Cored	IMS L	9.350	Stability Index	116.1
Carbon Rudder	No	LSM0	9.051		
Light stanchions	No	Acc. length	10.300		
Trim tab	No	Sink (kg/mm)	17.52		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.380	EDL	1.000	ST3	0.180
Installation	Strut	PBW	0.120	ST1	0.065	ST4	0.110
Twin screw	No			ST2	0.180	ST5	0.350
PIPA	0.0039						

RIG

Forestay tension	Aft	P	13.010	E	4.800
Inner stay	None Fitted	IG	13.664	J	4.200
Carbon mast	Yes	ISP	14.847	BAS	1.449
Headsail furler	No	MDT1	0.094	FSD	0.038
Mainsail furler	No	MDL1	0.177	SFJ	0.105
Articulated bowsprit	No	MDT2	0.083	SPL	4.406
Non-circular rigging	No	MDL2	0.151	TPS	5.480
Fiber rigging	Yes	TL	1.100	BD	0.236
Runners/Checkstays	0	MW	0.177	MWT	120.20
Spreaders	2	GO	0.191	MCG	5.090

FLOTATION AND STABILITY

Inclining Test	Poles Inclining	SFFP	0.000	SAFP	10.300	W1	80.0	PD1	684.2	WD	11.430
Flotation Date	14/08/2019	FFM	1.266	FAM	0.629	W2	80.0	PD2	684.6	PLM	9000.00
Measurer		FF	1.270	FA	0.637	W3	80.0	PD3	677.0	GSA	1.0
Comment	Oxelosund	LCFcl	5.596	LCFsh	5.822	W4	80.0	PD4	676.9	RSA	1.0
		SG	1.0050	HBI	1.242						

MEASUREMENT INVENTORY

Id	Tank Type	Capacity	LCG	VCG	Condition	Description
B	WATER PVC	110.0	4.22		0-0	EMPTY
A	FUEL PVC	60.0	7.58		20-0	
Id	Item Description	Weight	LCG	VCG		
B	Battery 1x70ah	21.0	4.83			
A	Battery 1x70Ah	21.0	4.53			
B	Miscellaneous HOT AIR GENERATOR	10.0	8.88			
A	Miscellaneous AUTOHELM	8.0	8.48			



International
Certificate
2021

Boat
SUGAR
EST-774

Offshore
Racing
Congress

Certificate number: 222/21



MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
E	0.42	1.12	1.87	3.13	4.01	37.75				Unknown	

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
M	0.11	0.76	1.39	2.45	3.42	4.40	13.46	Yes	No		31.79				Unknown	Jib1

ASYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Measurer	Meas.Date	Maker	Material	Comment
D	17.15	13.09	15.12	8.70	8.87	98%	110.05				Unknown	A2-21
B	16.78	14.96	15.87	8.13	9.03	90%	109.90				Unknown	A1