



International
Certificate
2024

Boat
GIN TONIC
ITA-640FUN

FEDERAZIONE ITALIANA VELA
Distr.:UVAI www.uvai.it
Tel. + 39068841273
E-mail segreteria@uvai.it



APH ToD: **655.7** CDL: **6.092**

APH ToT: **0.9150** CertNo: **24/4**

BOAT

Class	Fun
Designer	Joubert/Nivelt
Builder	Lilia
Age date	01/2005
Series date	01/1983
Offset file	fun-od.off
Data file	1640FUN

HULL

Length Overall	7.100 m
Maximum Beam	2.358 m
Draft	1.550 m
Displacement	936 kg
DLR	5.9523
IMS Division	Sportboat
Dynamic Allowance	0.000%
Age Allowance	0.487%

PROPELLER

Installation	No Propeller
Type	N/A
Diameter	N/A

CREW

Maximum weight	300 kg (declared)
Minimum weight	170 kg * when applied
Non Manual Power	No
Crew Arm Extension	

SAIL AREAS (m²)

	Measured	Rated
Mainsail	16.35	16.75
Headsail Luffed	11.52	11.52
Headsail Flying		
Symmetric	32.92	32.92
Asymmetric		

STORM SAIL AREAS (m²)

Trysail	4.76
Storm Jib	3.03
Heavy Weather Jib	8.16

SAIL LIMITS

Headsails	5
Spinnakers	4

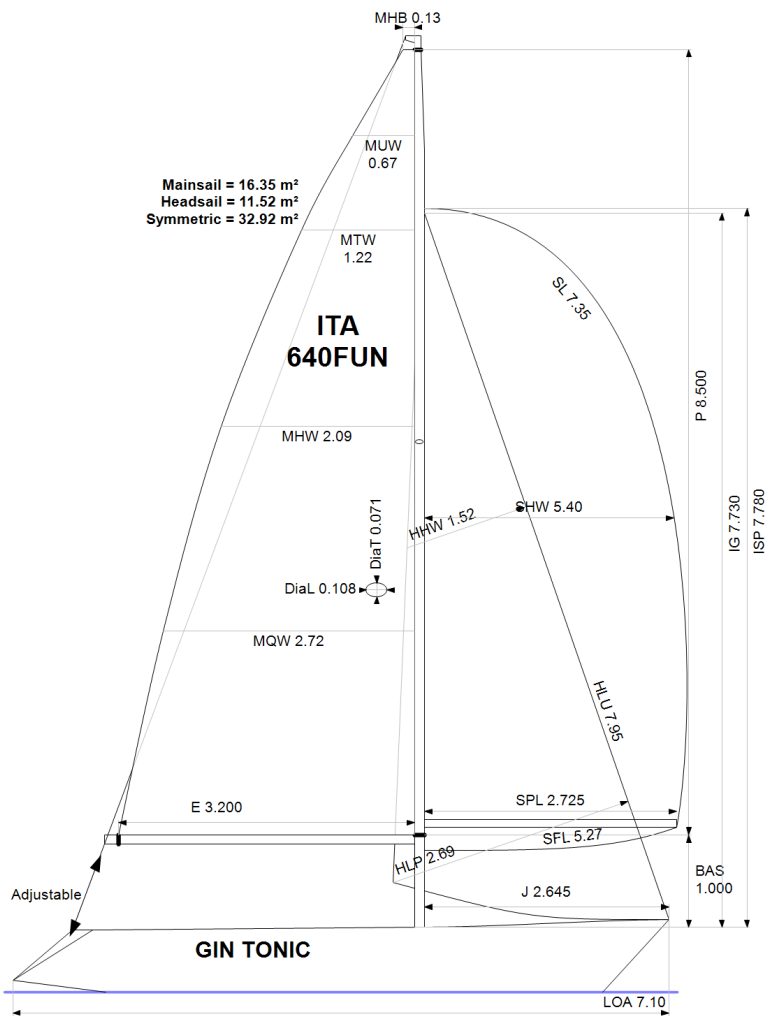
STABILITY

Righting Moment	19.1 kg·m
Stability Index	103.9

COMMENTS

outboard HHonda hp 2,3 @4,6 m

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.



Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	42.0°	39.8°	37.7°	36.6°	36.5°	36.6°	37.4°	39.5°
Beat VMG	3.11	3.71	4.09	4.28	4.34	4.37	4.36	4.25
52°	4.64	5.34	5.68	5.88	5.97	6.03	6.09	6.06
60°	4.83	5.48	5.80	6.02	6.15	6.22	6.32	6.32
75°	4.94	5.56	5.91	6.17	6.39	6.54	6.72	6.80
90°	4.96	5.68	6.07	6.32	6.50	6.75	7.16	7.42
110°	4.96	5.71	6.17	6.57	6.94	7.28	7.86	8.56
120°	4.80	5.60	6.07	6.50	6.94	7.46	8.90	10.16
135°	4.31	5.18	5.80	6.21	6.63	7.10	9.04	12.16
150°	3.61	4.57	5.34	5.86	6.24	6.63	7.64	10.60
Run VMG	3.12	3.96	4.67	5.30	5.77	6.13	6.87	9.18
Gybe Angles	146.5°	151.5°	157.4°	169.6°	178.1°	178.6°	177.9°	142.5°



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Time Allowances in secs/NM								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1157.2	971.3	880.5	841.4	829.7	824.0	826.4	847.9
52°	775.4	674.8	633.5	612.4	602.8	596.9	591.5	593.6
60°	744.8	657.4	620.7	598.4	585.6	578.4	570.1	569.4
75°	728.7	647.0	609.6	583.2	563.6	550.8	536.1	529.8
90°	725.5	633.3	593.0	569.5	554.1	533.1	503.0	485.0
110°	726.3	630.3	583.9	548.2	518.8	494.4	457.9	420.8
120°	750.8	642.9	593.0	554.0	518.9	482.6	404.6	354.4
135°	835.9	695.6	620.6	579.6	543.2	507.0	398.4	296.0
150°	998.1	787.6	674.3	614.2	576.5	542.9	471.3	339.6
Run VMG	1152.5	908.4	771.4	679.6	623.7	586.8	524.0	392.1
Selected Courses								
Windward / Leeward	1154.9	939.8	826.0	760.5	726.7	705.4	675.2	620.0
All purpose	893.7	749.8	677.8	636.7	612.2	592.1	556.5	516.2

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	794.7	0.7550
All purpose	655.7	0.9150



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Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Fun	LOA	7.100	VCGD	-0.087
Measurement	21/03/2024	Max. Beam	2.358	VCGM	-0.092
HIN		Draft	1.550	RM Rated (kg·m)	19.1
Plan review		Displacement	936	Limit of positive stability(°)	112.7
Hull construction	Solid	Wetted area	8.85	Stability Index	103.9
Carbon Rudder	No	IMS L	5.885	Default crew weight	286
Light stanchions	No	LSM0	5.396	Declared crew weight	300
Trim tab	No	Acc. length	7.100		
		Sink (kg/mm)	6.72		

PROPELLER

Propeller Type **No Propeller**
Hydro generator **No**

RIG

Forestay tension	Aft	P	8.500	E	3.200
Inner stay	None Fitted	IG	7.730	J	2.645
Mast material	Aluminum	ISP	7.780	BAS	1.000
Single headsail furler	No	MDT1	0.071	FSD	
Mainsail furler	No	MDL1	0.108	SFJ	
Articulated bowsprit	No	MDT2	0.058	SPL	2.725
Non-circular rigging	No	MDL2	0.071	WPL	
Fiber rigging	No	TL	1.100	TPS	
Adjustable mast foot	No	MW	0.108	BD	0.100
Runners/Checkstays	0	GO	0.123	MWT	29.00
Spreaders	1			MCG	3.280
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Boom inclining	SFFP	0.472	SAFP	6.238	W1	17.5	PD1	219.2	WD	3.040
Flotation Date	21/03/2024	FFM	0.773	FAM	0.667	W2	17.5	PD2	220.3	PLM	9000.00
Measurer	FIV-120	FF	0.778	FA	0.670	W3	17.5	PD3	220.1	GSA	1.0
Comment	COND. OTTIME	LCFcl	3.841	LCFsh	4.007	W4	17.5	PD4	219.2	RSA	1.0
		SG	1.0000	HBI	0.699	LCFD	3.640			RM	19.1

INVENTORY

OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG
	A	Battery		13	4.60	-0.02
	A	Engine	Honda hp 2,3			
Total deductible				0		



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MAINSAIL

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	0.13	0.67	1.22	2.09	2.72	16.35	21/03/2024	

HEADSAIL

<i>Id</i>	<i>HHB</i>	<i>HUW</i>	<i>HTW</i>	<i>HHW</i>	<i>HQW</i>	<i>HLP</i>	<i>HLU</i>	<i>Btn</i>	<i>Flying FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	0.06	0.41	0.80	1.52	2.16	2.69	7.95	Yes	No	11.52	21/03/2024	
B	0.06	0.41	0.80	1.52	2.16	2.67	7.90	Yes	No	11.43	21/03/2024	
C						2.31	6.77	Yes	No	7.96	21/03/2024	

SYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	7.35	7.35	7.35	5.40	5.27	32.92	21/03/2024	S-1,5
B	7.35	7.35	7.35	5.40	5.27	32.92	21/03/2024	S-2