

APH ToD: **656.5** CDL: **6.151**

APH ToT: **0.9139** CertNo: **24/3**

#### BOAT

Class **Fun**  
Designer **Joubert/Nivelt**  
Builder **Lilia**  
Age date **01/2006**  
Series date **01/1983**  
Offset file **fun-od.off**  
Data file **1641FUN**

#### 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 **0.020%**  
Age Allowance **0.487%**

#### PROPELLER

Installation **No Propeller**  
Type **N/A**  
Diameter **N/A**

#### CREW

Maximum weight **360 kg** (declared)  
Minimum weight **230 kg** \* when applied  
Non Manual Power **No**  
Crew Arm Extension

#### SAIL AREAS (m<sup>2</sup>)

	Measured	Rated
Mainsail	<b>15.82</b>	<b>16.13</b>
Headsail Luffed	<b>11.45</b>	<b>11.45</b>
Headsail Flying		
Symmetric	<b>33.05</b>	<b>33.05</b>
Asymmetric		

#### STORM SAIL AREAS (m<sup>2</sup>)

Trysail **4.76**  
Storm Jib **3.03**  
Heavy Weather Jib **8.16**

#### SAIL LIMITS

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

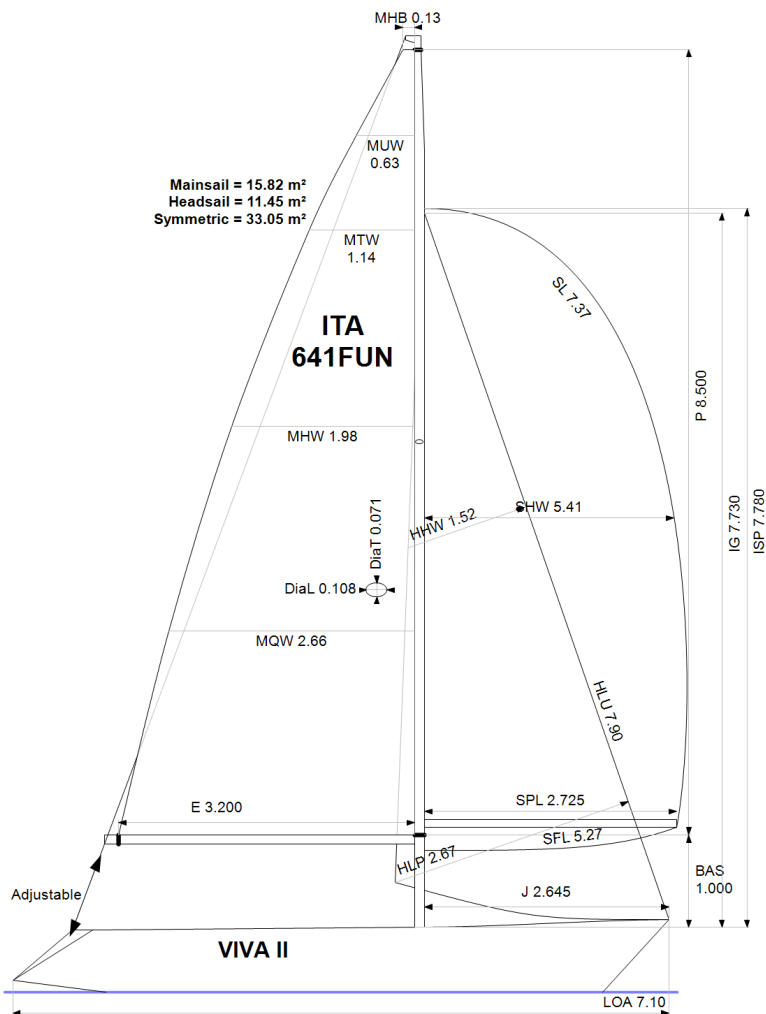
#### STABILITY

Righting Moment **19.1 kg·m**  
Stability Index **102.6**

#### COMMENTS

outboard Honda 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	42.2°	40.2°	38.0°	36.4°	36.0°	35.8°	36.5°	38.3°
Beat VMG	3.06	3.65	4.06	4.31	4.41	4.45	4.45	4.35
52°	4.57	5.29	5.66	5.89	6.02	6.10	6.17	6.16
60°	4.76	5.43	5.78	6.01	6.19	6.28	6.40	6.42
75°	4.87	5.52	5.88	6.15	6.39	6.58	6.79	6.91
90°	4.92	5.67	6.08	6.36	6.54	6.73	7.21	7.57
110°	4.92	5.68	6.14	6.55	6.95	7.34	8.05	8.94
120°	4.76	5.57	6.04	6.46	6.90	7.43	9.17	10.45
135°	4.26	5.14	5.77	6.18	6.58	7.03	8.80	12.15
150°	3.57	4.53	5.31	5.84	6.21	6.58	7.52	10.33
Run VMG	3.10	3.93	4.63	5.27	5.75	6.10	6.81	8.95
Gybe Angles	146.5°	151.4°	155.6°	168.7°	178.1°	178.6°	178.1°	140.8°



International  
Certificate  
2024

Boat  
**VIVA II**  
ITA-641FUN

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



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	1177.7	985.4	887.6	835.8	817.0	808.8	808.3	828.0
52°	788.0	680.2	635.6	611.5	597.5	590.6	583.6	584.4
60°	756.2	662.5	622.8	598.6	582.0	572.8	562.9	560.6
75°	739.3	652.7	612.5	585.0	563.2	547.5	530.1	521.2
90°	732.1	634.8	592.4	565.7	550.8	534.7	499.0	475.7
110°	732.1	633.4	586.3	549.4	518.3	490.7	447.4	402.6
120°	757.1	646.1	596.2	557.4	521.9	484.7	392.5	344.4
135°	844.6	700.5	623.5	582.9	547.2	512.4	409.2	296.3
150°	1007.3	793.9	678.2	616.8	579.8	546.9	478.5	348.4
Run VMG	1163.2	915.7	777.0	683.1	626.5	590.0	528.6	402.4
Selected Courses								
Windward / Leeward	1170.4	950.5	832.3	759.5	721.8	699.4	668.5	615.2
All purpose	905.0	756.5	681.4	636.5	609.7	589.0	551.3	508.8

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	795.6	0.7542
All purpose	656.5	0.9139

Data in meters/kilograms (Metric)

**HULL AND APPENDAGES (Lightship Trim)**

Class	<b>Fun</b>	LOA	<b>7.100</b>	VCGD	<b>-0.087</b>
Measurement	<b>21/03/2024</b>	Max. Beam	<b>2.358</b>	VCGM	<b>-0.092</b>
HIN		Draft	<b>1.550</b>	RM Rated (kg·m)	<b>19.1</b>
Plan review		Displacement	<b>936</b>	Limit of positive stability(°)	<b>111.4</b>
Hull construction	<b>Solid</b>	Wetted area	<b>8.85</b>	Stability Index	<b>102.6</b>
Carbon Rudder	<b>No</b>	IMS L	<b>5.918</b>	Default crew weight	<b>286</b>
Light stanchions	<b>No</b>	LSM0	<b>5.396</b>	Declared crew weight	<b>360</b>
Trim tab	<b>No</b>	Acc. length	<b>7.100</b>		
		Sink (kg/mm)	<b>6.72</b>		

**PROPELLER**

Propeller Type	<b>No Propeller</b>
Hydro generator	<b>No</b>

**RIG**

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

**FLOTATION AND STABILITY**

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

**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><b>Id</b></i>	<i><b>MHB</b></i>	<i><b>MUW</b></i>	<i><b>MTW</b></i>	<i><b>MHW</b></i>	<i><b>MQW</b></i>	<i><b>Area</b></i>	<i><b>Meas.Date</b></i>	<i><b>Comment</b></i>
A	0.13	0.63	1.14	1.98	2.66	15.82	21/03/2024	

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**HEADSAIL**

<i><b>Id</b></i>	<i><b>HHB</b></i>	<i><b>HUW</b></i>	<i><b>HTW</b></i>	<i><b>HHW</b></i>	<i><b>HQW</b></i>	<i><b>HLP</b></i>	<i><b>HLU</b></i>	<i><b>Btn</b></i>	<i><b>Flying FT</b></i>	<i><b>Area</b></i>	<i><b>Meas.Date</b></i>	<i><b>Comment</b></i>
A	0.06	0.42	0.81	1.52	2.16	2.67	7.90	Yes	No	11.45	21/03/2024	
B						2.32	6.67	Yes	No	7.88	21/03/2024	

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**SYMMETRIC SPINNAKER**

<i><b>Id</b></i>	<i><b>SLU</b></i>	<i><b>SLE</b></i>	<i><b>SL</b></i>	<i><b>SHW</b></i>	<i><b>SFL</b></i>	<i><b>Area</b></i>	<i><b>Meas.Date</b></i>	<i><b>Comment</b></i>
A	7.37	7.37	7.37	5.41	5.27	33.05	21/03/2024	S-1,5
B	7.36	7.36	7.36	5.26	5.28	32.29	21/03/2024	S-2