



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

Centre de Calcul FFVoile
52 Rue Sénac de Meilhan
17000 La Rochelle
France

Certificate

Number **20156a**
Issued On **03/03/2020**
ORC Ref **03360000E9W**
VPP Ver. **2020 1.01**
Valid until **28/02/2021**

Crew Weight

Default 333kg
Maximum **333kg**
Minimum* **248kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	668.7	0.8973
Non Spin OSN	657.2	0.9129

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 55.84**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length

CDL = **6.624**

Stability (Estimated)

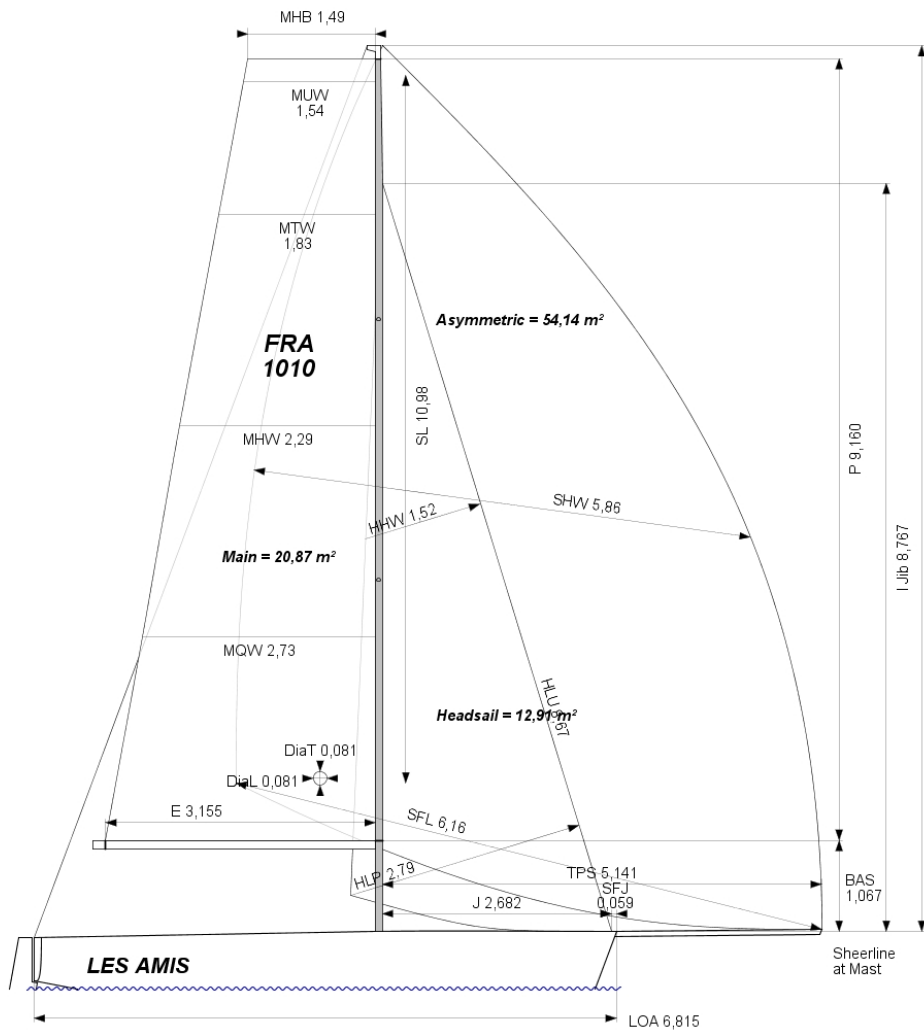
Limit Positive Stab.: **106.8°**
Stability Index: **97.8**

Owner

CARIS Olivier
32 Rue Henri Rochefort
17000 - LA ROCHELLE

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT	GPH	HULL
Name LES AMIS Sail Nr FRA-1010	624.3	Data File F1010 LOA 6.815m Offset File LONGTZE.OD.O MB 2.528m Displacement 651kg Draft 1.757m
CLASS Class LONGTZE PREMIER Designer THOMSON Steve Builder LONGTZE YACHTS Series 04/2008, CIN 1493 Age Date Age Allowance 0.390%		IMS Division Sportboat Dynamic All. 0.000% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions No
COMMENTS WITH Outboard Engine ==> DSPL Std + 21kg From:F1004.dxt		IMSL 6.500m VCGD -0.096m Sink 6.16kg/mm RL 6.758m VCGM -0.041m WS 8.16m² LSM0 6.008m Displacement/Length ratio
PROPELLER Type No Propeller		Water Ballast Trim Tab No BLR Index 0.0000
		CENTERBOARD NA
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	613.8	687.6
Time on Time	0.9775	0.9817
Triple Number	Low Medium High	Low Medium High
Time on Distance	677.3 570.4 501.3	847.9 703.7 605.2
Time on Time	0.9966 1.1833 1.3464	0.7961 0.9592 1.1154

BOAT	
Name LES AMIS	Sail Nr FRA-1010
File F1010	Data in meters/kilograms

RIG	
Forestay Tension Fixed	Spreaders 2
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast Yes	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 9.160	E 3.155 MDT1 0.081 MW 0.081
IG 8.767	J 2.682 MDL1 0.081 GO 0.081
ISP 10.377	SFJ 0.059 MDT2 0.060 BD 0.105
BAS 1.067	SPL 0.000 MDL2 0.060 MWT 33.00
FSD	TPS 5.141 TL 1.465 MCG 3.165

INCLINING TEST AND FREEBOARDS	
Inclining Test Enter VCG directly	
Flotation date 01/01/2013	SG 1.0255
VCGDe -0.096	
FFM 0.666	FF 0.666 SFFP 0.017
FAM 0.193	FA 0.193 SAFF 6.805
LCF from stem on CL / on sheer 3.811 / 4.008	
Maximum beam station from stem 4.150	
RM Measured 10.4kg-m	
RM Default 16.2kg-m	
Limit of positive stability / Stab.Index 106.8° / 97.8	
Freeboard at mast at 2.741 0.672	



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2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

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COMMENTS	
WITH Outboard Engine ==> DSPL Std + 21kg From:F1004.dxt	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M1	1.49	1.54	1.83	2.29	2.73	20.87	Declaration	03/03/2020	Incidences	Polyester						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0.06	0.50	0.86	1.52	2.17	2.79	8.67	104%	12.91	Y	No	Declaratio	03/03/2020		Polyest	
Code3	0.03	0.33	0.62	1.20	1.78	2.35	6.97	88%	8.34		No	CR			Unknow	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A1	12.16	9.79	10.98	5.86	6.16	54.15	asym	Declaration	03/03/2020		Nylon					

2020

ORC Club Certificate Appendix

BOAT	
Name	LES AMIS
Sail Nr	FRA-1010
Certificate Number	20156a
Issued On	03/03/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	954.4	838.7	815.5	812.2	803.0	802.5	819.0
52°	642.8	599.3	586.7	581.3	574.1	567.2	567.4
60°	622.3	581.3	564.4	555.9	548.6	536.6	533.1
75°	608.1	559.5	527.9	513.1	504.4	493.9	476.0
90°	610.3	555.8	506.2	475.3	459.2	449.9	426.7
110°	600.6	538.8	501.2	467.7	434.8	400.2	380.3
120°	608.1	533.7	481.5	447.7	414.0	387.2	346.2
135°	648.5	568.7	496.4	427.4	377.8	347.0	293.0
150°	760.5	621.6	562.3	499.6	433.7	368.5	269.7
Run VMG	878.1	720.3	650.0	576.8	500.8	425.5	311.4
Selected Courses							
Windward / Leeward	916.3	779.5	732.7	694.5	651.9	614.0	565.2
Circular Random	821.7	682.6	609.9	566.0	535.3	511.7	477.1
Coastal / Long Distance	912.4	738.2	663.0	603.2	554.3	510.6	445.2
Non Spinnaker	895.6	735.9	651.5	601.6	568.6	544.1	507.0

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	41.6°	37.5°	36.8°	37.1°	37.1°	37.5°	39.4°
Beat VMG	3.77	4.29	4.41	4.43	4.48	4.49	4.40
52°	5.60	6.01	6.14	6.19	6.27	6.35	6.35
60°	5.79	6.19	6.38	6.48	6.56	6.71	6.75
75°	5.92	6.43	6.82	7.02	7.14	7.29	7.56
90°	5.90	6.48	7.11	7.57	7.84	8.00	8.44
110°	5.99	6.68	7.18	7.70	8.28	9.00	9.47
120°	5.92	6.75	7.48	8.04	8.70	9.30	10.40
135°	5.55	6.33	7.25	8.42	9.53	10.37	12.29
150°	4.73	5.79	6.40	7.21	8.30	9.77	13.35
Run VMG	4.10	5.00	5.54	6.24	7.19	8.46	11.56
Gybe Angles	144.0°	151.8°	151.0°	147.0°	143.3°	143.1°	149.0°