



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Hellenic Sailing Federation
Offshore Committee

Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



Certificate

Number **00515**
Issued On **27/03/2020**
ORC Ref **03420000F9R**
VPP Ver. **2020 1.01**
Valid until **28/02/2021**

Crew Weight

Default 571kg
Maximum **375kg**
Minimum* **281kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	702.2	0.8545
Non Spin OSN	680.5	0.8818

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 78.88**
Flying H/S: **No**
Spin. Pole: **No**

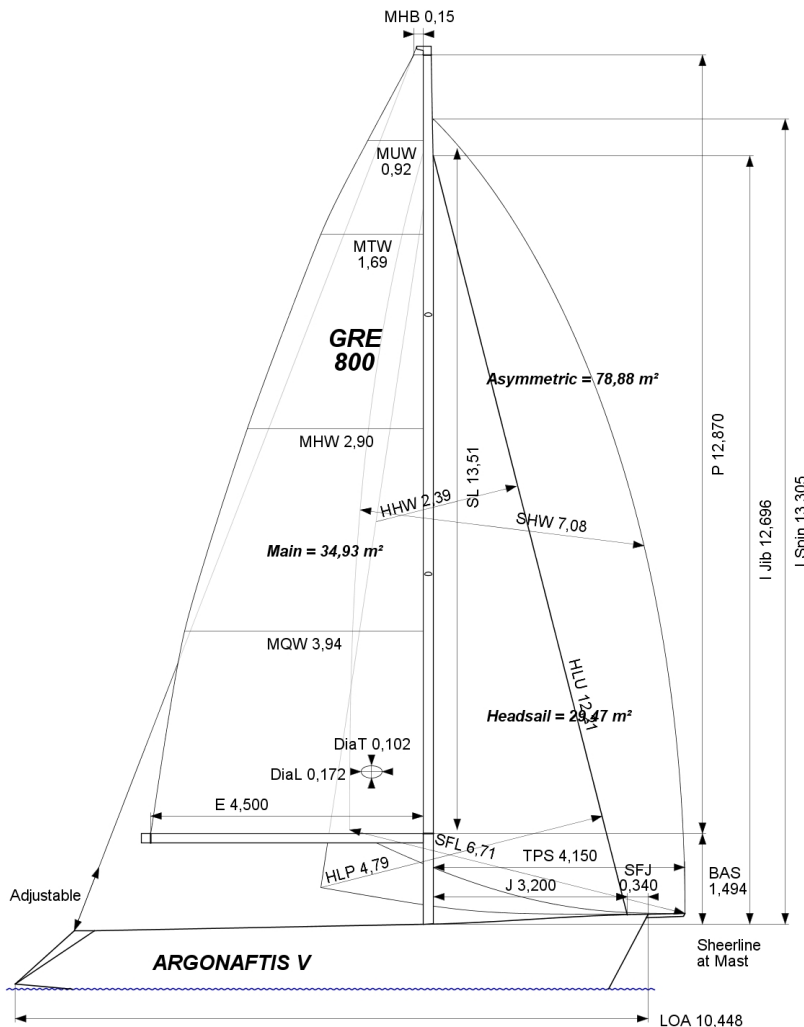
Class Division Length

CDL = 8.159

Stability (Measured)

Limit Positive Stab.: **102.8°**
Stability Index: **103.6**

Owner



BOAT		GPH	HULL			
Name ARGONAFTIS V Sail Nr GRE-800		670.3	Data File GR800	LOA 10.448m		
			Offset File ALBIREO.OFF	MB 3.572m		
			Displacement 5,864kg	Draft 1.905m		
CLASS			IMS Division Cruiser/Racer	Dynamic All. 0.353%		
Class FIRST 35 S5			Plan Review	Construction Solid		
Designer JEAN BERRET			Fiber Rigging No	Aramid Core No		
Builder BENETEAU			Crew Arm Ex	Carbon Rudder No		
Series 01/1987				Light Stanchions No		
Age Date 01/1990			IMSL 9.138m	VCGD 0.223m	Sink 18.09kg/mm	
Age Allowance 0.487%			RL 7.193m	VCGM 0.232m	WS 23.67m²	
COMMENTS			LSM0 8.768m	Displacement/Length ratio 8.6995		
ex "ALBIREO", ex "CHRYSOPELEIA".			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Installation Shaft exposed	PRD 0.417					
Type Feathering 3 blades	PBW 0.136					
	PIPA 0.0058					
		NA				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	653.0			734.8		
Time on Time	0.9188			0.9186		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	764.4	593.9	537.5	989.2	740.4	650.5
Time on Time	0.8831	1.1365	1.2557	0.6824	0.9117	1.0376

BOAT	
Name ARGONAFIS V	Sail Nr GRE-800
File GR800	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 26/05/2019		SG 1.0300	
FFM 1.219	FF 1.223	SFFP 0.428	
FAM 0.918	FA 0.918	SAFP 9.146	
W1 70.2	PD1 562.6	WD 10.270	
W2 70.2	PD2 562.5	GSA 1.0	
W3 70.2	PD3 563.7	RSA 1.0	
W4 70.2	PD4 563.8	PLM 9000.0	
LCF from stem on CL / on sheer		5.629 / 5.893	
Maximum beam station from stem		6.995	
RM Measured		100.8kg-m	
RM Default		111.6kg-m	
Limit of positive stability / Stab.Index		102.8° / 103.6	
Freeboard at mast at 3.540		1.077	



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners/Checkstays 0		
Carbon Mast No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Non-Circular Rigging No			
Articulated Bowsprit No			
P 12.870	E 4.500	MDT1 0.102	MW 0.172
IG 12.696	J 3.200	MDL1 0.172	GO 0.172
ISP 13.305	SFJ 0.340	MDT2 0.102	BD 0.148
BAS 1.494	SPL	MDL2 0.130	MWT 129.38
FSD 0.030	TPS 4.150	TL 1.905	MCG 5.522

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.417		
Type Feathering 3 blades	PBW 0.136		
Twin Screw No	PIPA 0.0058		
PSA 22.000	PHL 0.137	ST3 0.101	ESL 1.025
PSD 0.025	ST1 0.027	ST4 0.056	
PHD 0.067	ST2 0.101	ST5 0.215	

Certificate

Number **00515**
ORC Ref **03420000F9R**
Issued On **27/03/2020**
VPP Ver. **2020 1.01**
Valid until **28/02/2021**



COMMENTS	
ex "ALBIREO", ex "CHRYSOPELEIA".	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.15	0.92	1.69	2.90	3.94	34.93		10/10/2019	QUANTUM	Kevlar	LITE SKIN					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
3	0.14	0.67	1.22	2.39	3.59	4.79	12.21	150%	29.47		No		14/01/2019	KAKITSIS	Pentex	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	14.20	12.82	13.51	7.08	6.71	78.88	asym		14/01/2019	KAKITSIS	Polyester					
2	14.30	12.70	13.50	6.28	6.80	71.82	asym		14/01/2019	KAKITSIS	Polyester					

MEASUREMENT INVENTORY				
Measurer GRE-103				
Date 26/05/2019				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	YANMAR	3YM 29HP	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
4	Tank	WATER		PVC	100.0	2.35		0-0	C
3	Tank	WATER		PVC	100.0	4.00		0-0	P
2	Tank	FUEL		PVC	22.0	8.45		45-0	P
1	Tank	FUEL		PVC	70.0	3.75		50-0	S
Id	Item	Weight	Distance	VCG	Description				
1	Battery	60.0	7.00		2X100 Ah				
2	Misc	10.0	7.40		HEATING SYSTEM (P)				
3	Misc	10.0	7.20		WATER HEATER (C)				
1	Misc		0.50		1 SOLAR PANEL (1.00X1.00m) (C)				

2020

ORC Club Certificate Appendix

BOAT	
Name	ARGONAFTIS V
Sail Nr	GRE-800
Certificate Number	00515
Issued On	27/03/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1137.1	945.8	843.8	787.3	766.9	759.5	767.9
52°	741.4	630.0	564.7	538.6	528.8	524.6	523.6
60°	700.5	598.1	544.7	523.4	513.0	508.6	506.3
75°	670.1	572.8	530.5	510.3	497.6	488.6	480.6
90°	669.8	560.7	517.3	500.1	490.8	477.7	457.4
110°	665.5	553.9	511.5	488.5	469.2	454.8	437.6
120°	688.2	569.0	517.9	492.5	471.2	450.7	420.8
135°	765.8	625.4	543.9	508.8	486.3	465.1	425.5
150°	902.8	719.9	614.9	552.1	520.5	500.7	467.1
Run VMG	1042.4	831.2	710.1	637.6	591.9	541.7	494.6
Selected Courses							
Windward / Leeward	1089.7	888.5	776.9	712.4	679.4	650.6	631.3
Circular Random	918.8	743.3	650.2	597.3	565.9	546.6	525.3
Coastal / Long Distance	1085.0	833.2	697.1	617.0	577.4	544.7	496.2
Non Spinnaker	981.3	786.0	680.2	618.4	581.1	558.1	533.3

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	43.5°	41.3°	41.3°	41.4°	40.9°	40.5°	41.3°
Beat VMG	3.17	3.81	4.27	4.57	4.69	4.74	4.69
52°	4.86	5.71	6.38	6.68	6.81	6.86	6.88
60°	5.14	6.02	6.61	6.88	7.02	7.08	7.11
75°	5.37	6.28	6.79	7.05	7.23	7.37	7.49
90°	5.37	6.42	6.96	7.20	7.34	7.54	7.87
110°	5.41	6.50	7.04	7.37	7.67	7.92	8.23
120°	5.23	6.33	6.95	7.31	7.64	7.99	8.56
135°	4.70	5.76	6.62	7.07	7.40	7.74	8.46
150°	3.99	5.00	5.85	6.52	6.92	7.19	7.71
Run VMG	3.45	4.33	5.07	5.65	6.08	6.65	7.28
Gybe Angles	145.5°	147.8°	147.0°	149.0°	174.0°	177.0°	178.5°