



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 **01241**
Issued On **10/06/2020**
ORC Ref **03420000KBU**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	647kg
Maximum	560kg
Minimum*	420kg

**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 677.7	0.8853
Non Spin OSN 655.9	0.9147

Sails Limitations

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

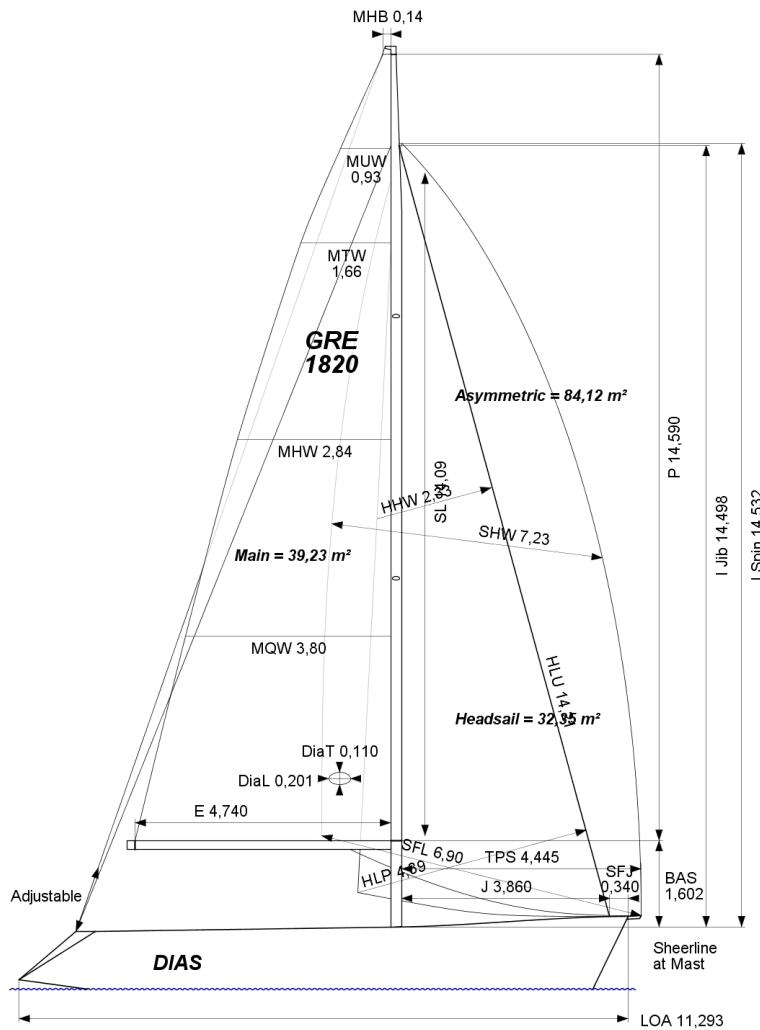
Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes** **84.12**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length
CDL = **8.886**

Stability (Estimated)
Limit Positive Stab.: **121.2°**
Stability Index: **122.9**

Owner



BOAT Name DIAS Sail Nr GRE-1820		GPH 646.4	HULL Data File GR1820 LOA 11.293m Offset File US30030.BOF MB 3.725m Displacement 6,591kg Draft 1.889m IMS Division Cruiser/Racer Dynamic All. 0.285% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No IMSL 9.807m VCGD -0.110m Sink 19.14kg/mm RL 7.964m VCGM -0.048m WS 26.81m² LSM0 9.577m Displacement/Length ratio 7.5035 Water Ballast 0 Trim Tab No BLR Index 0.0000					
CLASS Class FIRST 38 S5 Designer BERRET/STARCK Builder BENETEAU Series 01/1989 Age Date 01/1993 Age Allowance 0.487%			IMS Division Cruiser/Racer Dynamic All. 0.285% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No IMSL 9.807m VCGD -0.110m Sink 19.14kg/mm RL 7.964m VCGM -0.048m WS 26.81m² LSM0 9.577m Displacement/Length ratio 7.5035 Water Ballast 0 Trim Tab No BLR Index 0.0000					
COMMENTS Weighted by measurer.			CENTERBOARD NA					
PROPELLER Installation Shaft exposed PRD 0.480 Type Folding 2 blades PBW 0.120 PIPA 0.0066								
SCORING OPTIONS								
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD				
Time on Distance	628.9			707.8				
Time on Time	0.9540			0.9536				
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	743.1	571.2	512.4	964.7	713.2	620.6		
Time on Time	0.9084	1.1817	1.3173	0.6997	0.9464	1.0876		

BOAT	
Name DIAS	Sail Nr GRE-1820
File GR1820	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners/Checkstays 1
Carbon Mast No	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 14.590	E 4.740 MDT1 0.110 MW
IG 14.498	J 3.860 MDL1 0.201 GO
ISP 14.532	SFJ 0.340 MDT2 BD
BAS 1.602	SPL MDL2 MWT
FSD -3.000	TPS 4.445 TL -2.000 MCG

INCLINING TEST AND FREEBOARDS	
Inclining Test Club Estimated VCG	
Flotation date 28/08/2017	SG 1.0250
FFM 1.348	FF 1.348 SFFP 0.297
FAM 1.071	FA 1.071 SAFF 9.877
LCF from stem on CL / on sheer	6.011 / 6.253
Maximum beam station from stem	6.858
RM Measured	137.3kg-m
RM Default	133.3kg-m
Limit of positive stability / Stab.Index	121.2° / 122.9
Freeboard at mast at 4.200	1.156



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2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Shaft exposed	PRD 0.480
Type Folding 2 blades	PBW 0.120
Twin Screw No	PIPA 0.0066
PSA 22.300	PHL 0.128 ST3 0.101 ESL 1.045
PSD 0.025	ST1 0.027 ST4 0.058
PHD 0.078	ST2 0.101 ST5 0.235

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COMMENTS	
Weighted by measurer.	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0.14	0.93	1.66	2.84	3.80	39.23		22/03/2019	KAKITSIS	Twaron						
1	0.14	0.90	1.61	2.82	3.81	39.01		28/08/2017	KAKITSIS	Dacron						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.09	0.67	1.28	2.33	3.30	4.39	14.21	114%	32.35	Y	No		05/08/2018	QUANTUM	Kevlar	#2
3	0.13	0.71	1.28	2.36	3.34	4.19	14.26	109%	32.33	Y	No		22/03/2019	KAKITSIS	Twaron	#3
4						3.07	10.80	80%	16.88		No		22/03/2019	KAKITSIS	Dacron	#4
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				
1	14.90	13.28	14.09	7.23	6.90	84.12	asym		04/04/2018	KAKITSIS	Nylon					

MEASUREMENT INVENTORY				
Measurer GRE-21				
Date 04/04/2018				
Comment As in IMS B4 for weighing.				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	YANMAR	3JH4 (39	
Id	Item	Weight	Distance	Description

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	FUEL	INOX	110.0	2.00			0-0 (C)
2	Tank	WATER	PVC HARD	180.0	4.50			0-0 (P)
3	Tank	WATER	PVC HARD	190.0	4.50			0-0 (S)
Id	Item	Weight	Distance	VCG	Description			
1	Battery	6.90			1 x 100Ah (C)			
2	Battery	8.70			1 x 100Ah (S)			
1	Misc	1.30			ANCHOR WINDLASS 1000W			
2	Misc	5.90			WATER HEATER ~40L (S)			
3	Misc	10.20			AUTO PILOT (P+S)			

2020

ORC Club Certificate Appendix

BOAT	
Name DIAS	Certificate Number 01241
Sail Nr GRE-1820	Issued On 10/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1101.2	909.3	803.7	748.2	727.5	719.2	713.4
52°	713.9	602.7	540.4	514.7	504.3	499.9	498.2
60°	673.5	572.1	522.0	501.0	490.2	485.2	482.1
75°	644.8	550.1	509.1	489.4	476.3	466.3	456.0
90°	649.0	541.6	497.4	477.3	467.6	457.4	435.2
110°	649.3	537.4	493.5	470.3	450.0	431.9	412.8
120°	673.6	554.1	500.8	475.3	453.8	432.8	398.5
135°	753.8	612.8	529.9	492.8	470.2	448.9	408.9
150°	892.5	708.2	602.2	537.3	503.8	483.8	450.5
Run VMG	1030.6	817.7	695.3	620.4	579.2	527.7	478.6
Selected Courses							
Windward / Leeward	1065.9	863.5	749.5	684.3	653.4	623.5	596.0
Circular Random	891.6	718.9	626.7	573.8	542.0	521.6	496.9
Coastal / Long Distance	1062.4	809.6	672.3	592.3	553.5	521.4	471.4
Non Spinnaker	952.2	760.6	656.1	594.8	557.2	533.4	505.5

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	44.3°	42.0°	41.3°	40.9°	40.1°	39.8°	39.8°
Beat VMG	3.27	3.96	4.48	4.81	4.95	5.01	5.05
52°	5.04	5.97	6.66	6.99	7.14	7.20	7.23
60°	5.35	6.29	6.90	7.19	7.34	7.42	7.47
75°	5.58	6.54	7.07	7.36	7.56	7.72	7.90
90°	5.55	6.65	7.24	7.54	7.70	7.87	8.27
110°	5.54	6.70	7.29	7.65	8.00	8.34	8.72
120°	5.34	6.50	7.19	7.57	7.93	8.32	9.03
135°	4.78	5.88	6.79	7.31	7.66	8.02	8.80
150°	4.03	5.08	5.98	6.70	7.15	7.44	7.99
Run VMG	3.49	4.40	5.18	5.80	6.22	6.82	7.52
Gybe Angles	145.0°	147.5°	147.3°	148.5°	174.0°	176.5°	178.5°