



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 **00414**
Issued On **26/06/2020**
ORC Ref **03420000LIO**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	410kg
Maximum	410kg
Minimum*	308kg

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

Special Scoring

ToD	ToT
Non Spin GPH 827.9	0.7247
Non Spin OSN 799.4	0.7505

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes** **45.64**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

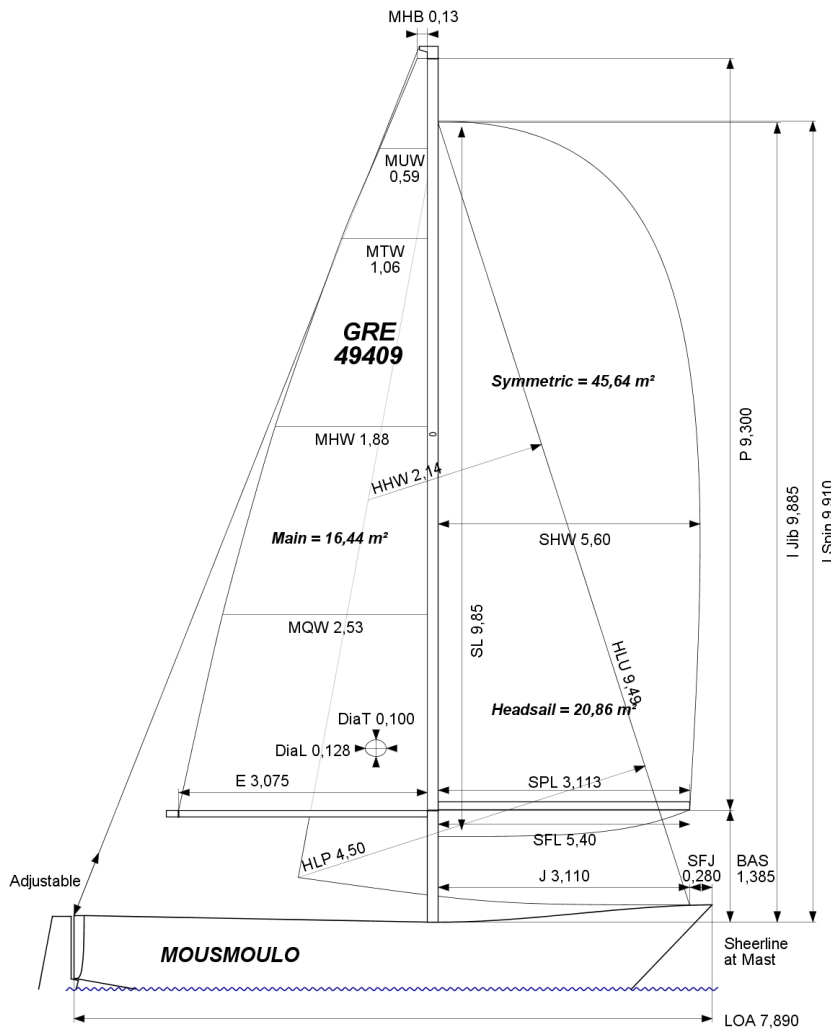
Class Division Length

CDL = 5.817

Stability (Estimated)

Limit Positive Stab.: **122.4°**
Stability Index: **123.3**

Owner



BOAT Name MOUSMOULO Sail Nr GRE-49409		GPH 793.8	HULL Data File GR49409 LOA 7.890m Offset File MOUS2001.OFF MB 2.726m Displacement 3,087kg Draft 1.347m			
CLASS Class HALLBERG RASSY 26 Designer OLLE ENDERLEIN Builder HALLBERG RASSY Series 01/1982 Age Date 01/1982 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.622% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 6.753m VCGD -0.061m Sink 10.97kg/mm RL 4.880m VCGM 0.017m WS 16.38m² LSM0 6.950m Displacement/Length ratio 9.1956		
COMMENTS		Water Ballast 0 Trim Tab No BLR Index 0.0000				
PROPELLER Installation Strut PRD 0.360 Type Folding 2 blades PBW 0.093 PIPA 0.0031		CENTERBOARD N/A				
SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	770.6			860.9		
Time on Time	0.7786			0.7841		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	918.7	700.9	621.7	1187.3	868.5	745.4
Time on Time	0.7347	0.9631	1.0857	0.5685	0.7772	0.9056

BOAT	
Name MOUSMOULO	Sail Nr GRE-49409
File GR49409	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 1
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 9.300	E 3.075 MDT1 0.100 MW 0.128
IG 9.885	J 3.110 MDL1 0.128 GO 0.128
ISP 9.910	SFJ 0.280 MDT2 0.100 BD 0.083
BAS 1.385	SPL 3.113 MDL2 0.128 MWT
FSD 0.000	TPS TL 0.000 MCG

INCLINING TEST AND FREEBOARDS	
Inclining Test Club Estimated VCG	
Flotation date 18/04/2017	SG 1.0285
FFM 1.041	FF 1.032 SFFP 0.500
FAM 0.771	FA 0.780 SAFF 7.730
LCF from stem on CL / on sheer	4.601 / 4.753
Maximum beam station from stem	4.600
RM Measured	45.0kg-m
RM Default	43.7kg-m
Limit of positive stability / Stab.Index	122.4° / 123.3
Freeboard at mast at 3.390	0.827



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2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Strut	PRD 0.360
Type Folding 2 blades	PBW 0.093
Twin Screw No	PIPA 0.0031
ST1 0.046	ST3 0.170 ST5 0.290
ST2 0.170	ST4 0.098 EDL 0.735

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COMMENTS	

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	0.13	0.59	1.06	1.88	2.53	16.44		23/06/2020		Unknown						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.06	0.55	1.06	2.14	3.29	4.50	9.49	145%	20.86		No		23/06/2020		Dacron	
2	0.05	0.51	0.98	1.99	3.04	4.13	9.50	133%	19.28		No		23/06/2020		Dacron	
3	0.05	0.43	0.82	1.64	2.44	3.18	9.54	102%	15.50		No		23/06/2020		Dacron	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	9.85	9.85	9.85	5.60	5.40	45.64					* Copied from legacy *					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer GRE-7				
Date 18/04/2017				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
1	Engine	Volvo		Penta
Id	Item	Weight	Distance	VCG Description

MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
2	Tank	Fuel		Inox	40.0	6.90	-0.15	30.0	
Id	Item	Weight	Distance	VCG	Description				
1	Battery	32.0	6.05		2 x 60Ah				

2020

ORC Club Certificate Appendix

BOAT			
Name	MOUSMOULO	Certificate Number	00414
Sail Nr	GRE-49409	Issued On	26/06/2020

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	1408.3	1185.0	1048.9	955.8	907.3	893.3	900.4	
52°	905.3	766.1	684.0	639.4	618.3	610.7	609.4	
60°	849.2	719.8	651.4	619.3	601.4	591.9	588.4	
75°	813.6	690.4	630.2	603.7	585.9	571.7	556.7	
90°	810.7	671.3	610.0	583.4	569.8	561.3	534.3	
110°	794.6	658.4	602.7	573.8	548.1	526.3	504.2	
120°	816.9	673.9	609.6	579.4	553.0	527.7	490.4	
135°	902.1	735.9	637.8	597.0	570.4	544.6	499.6	
150°	1040.8	829.2	703.3	628.7	594.5	570.0	523.2	
Run VMG	1201.8	954.1	809.1	705.1	636.0	600.0	552.7	
Selected Courses								
Windward / Leeward	1305.1	1069.5	929.0	830.5	771.6	746.6	726.6	
Circular Random	1099.2	885.7	769.8	701.8	660.4	634.6	606.0	
Coastal / Long Distance	1294.7	1000.3	831.8	725.0	668.7	632.2	574.2	
Non Spinnaker	1159.6	928.8	802.2	726.9	680.5	651.4	619.1	

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°	44.8°	42.8°	43.1°	42.2°	42.0°	42.8°	
Beat VMG	2.56	3.04	3.43	3.77	3.97	4.03	4.00	
52°	3.98	4.70	5.26	5.63	5.82	5.90	5.91	
60°	4.24	5.00	5.53	5.81	5.99	6.08	6.12	
75°	4.42	5.21	5.71	5.96	6.14	6.30	6.47	
90°	4.44	5.36	5.90	6.17	6.32	6.41	6.74	
110°	4.53	5.47	5.97	6.27	6.57	6.84	7.14	
120°	4.41	5.34	5.91	6.21	6.51	6.82	7.34	
135°	3.99	4.89	5.64	6.03	6.31	6.61	7.21	
150°	3.46	4.34	5.12	5.73	6.06	6.32	6.88	
Run VMG	3.00	3.77	4.45	5.11	5.66	6.00	6.51	
Gybe Angles	149.0°	153.5°	155.0°	170.0°	180.0°	180.0°	180.0°	