



2020
ORC Club
Certificate

Rating Office
Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



Certificate
Number **01359**
Issued On **29/07/2020**
ORC Ref **03420000NB5**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	906kg
Maximum	906kg
Minimum*	680kg

**when applied by the NoR and SI*
Non Manual Pwr **Rig**

Special Scoring

ToD	ToT
Non Spin GPH 605.2	0.9914
Non Spin OSN 587.5	1.0212

Sails Limitations

Headsails **6** Spinnakers **4**

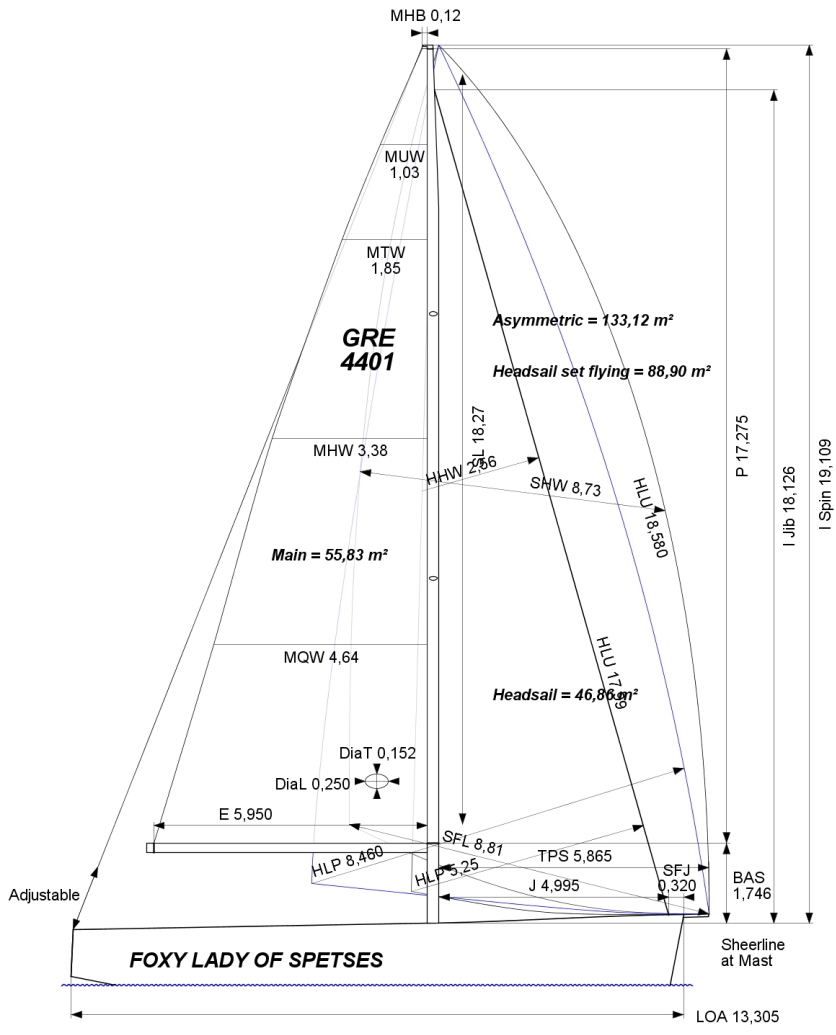
Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 133.12**
Flying H/S: **Yes 88.90**
Spin. Pole: **No**

Class Division Length
CDL = **11.390**

Stability (Estimated)
Limit Positive Stab.: **126.8°**
Stability Index: **131.7**

Owner



BOAT
Name **FOXY LADY OF SPETSES**
Sail Nr **GRE-4401**

GPH
560.7

HULL

Data File	GR4401	LOA	13.305m
Offset File	XP44SD.OFF	MB	4.054m
Displacement	9,506kg	Draft	2.340m

CLASS

Class	XP-44 SD
Designer	JEPESSEN
Builder	X YACHTS
Series	12/2010
Age Date	04/2012
Age Allowance	0.325%

IMS Division	Cruiser/Racer	Dynamic All.	0.201%
Plan Review		Construction	Cored
Fiber Rigging	No	Aramid Core	No
Crew Arm Ex		Carbon Rudder	Yes
		Light Stanchions	No

IMSL	12.315m	VCGD	-0.128m	Sink	27.61kg/mm
RL	10.463m	VCGM	-0.109m	WS	37.05m²
LSM0	12.125m	Displacement/Length ratio	5.3328		

COMMENTS

Water Ballast **0** Trim Tab **No**
BLR Index **0.0000**

PROPELLER

Installation	Strut	PRD	0.460
Type	Folding 3 blades	PBW	0.135
		PIPA	0.0034

CENTERBOARD
NA

SCORING OPTIONS

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time on Distance	548.5			621.5		
Time on Time	1.0939			1.0861		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	638.5	497.5	444.9	844.9	625.2	544.8
Time on Time	1.0571	1.3567	1.5173	0.7989	1.0797	1.2390

BOAT			
Name	FOXY LADY OF	Sail Nr	GRE-4401
File	GR4401	Data in	meters/kilograms
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	17.275	E	5.950
IG	18.126	J	4.995
ISP	19.109	SFJ	0.320
BAS	1.746	SPL	
FSD	0.043	TPS	5.865
MDT1	0.152	MW	
MDL1	0.250	GO	
MDT2		BD	
MDL2		MWT	
TL	-2.000	MCG	

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date		03/05/2019	SG
FFM	1.508	FF	1.512
FAM	1.202	FA	1.201
SFFP	0.744	SAFP	13.259
LCF from stem on CL / on sheer		7.456 / 7.714	
Maximum beam station from stem		9.119	
RM Measured		263.0kg-m	
RM Default		255.4kg-m	
Limit of positive stability / Stab.Index		126.8° / 131.7	
Freeboard at mast at 5.315		1.340	



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet

MIZZEN RIG AND SAILS			
N/A			

PROPELLER			
Installation	Strut	PRD	0.460
Type	Folding 3 blades	PBW	0.135
Twin Screw	No	PIPA	0.0034
ST1	0.050	ST3	0.175
ST2	0.175	ST4	0.101
		ST5	0.270
		EDL	2.500

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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	0.12	1.03	1.85	3.38	4.64	55.84		26/03/2015	NORTH	Kevlar	MARATHON					
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.15	1.51	2.87	5.21	7.00	8.46	18.58	169%	88.90		Yes		26/03/2015	NORTH	Polyest	C1
1	0.11	0.68	1.29	2.56	3.89	5.25	17.99	105%	46.86	Y	No		26/03/2015	NORTH	Kevlar	Tafeta Marathon
3						3.43	9.93	69%	17.34		No		26/03/2015	NORTH	Dacron	STORM JIB
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	19.56	16.97	18.27	8.73	8.81	133.13	asym		26/03/2015	NORTH	Nylon					

MEASUREMENT INVENTORY				
Measurer GRE-21				
Date 03/05/2019				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	YANMAR	4JH5E (39.6	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	FUEL		200.0	5.60			50-0 (S)
2	Tank	WATER		350.0	5.60			0-0 (P)
3	Tank	HOLDING		55.0				
Id	Item	Weight	Distance	VCG Description				
1	Battery		4.20	1 x 220 Ah (S)				
2	Battery		4.60	1 x 330 Ah (S)				
3	Battery		9.00	1 x 55 Ah (S)				
1	Misc		1.00	ANCHOR WINDLASS Quick 1000W				
2	Misc		8.50	BOILER 30L				
3	Misc	150.0		TEAK DECK (approx weight by designer)				
4	Misc			BIMINI, SPRAYHOOD, SOLAR PANEL				

2020

ORC Club Certificate Appendix

BOAT			
Name	FOXY LADY OF SPETSES	Certificate Number	01359
Sail Nr	GRE-4401	Issued On	29/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	949.9	782.4	703.9	652.8	633.9	625.7	612.0
52°	603.8	504.8	468.5	451.3	442.4	438.4	434.2
60°	556.7	474.3	448.3	437.4	429.7	425.4	422.8
75°	513.0	451.0	429.2	418.0	410.4	404.8	397.5
90°	501.8	446.0	423.9	407.6	393.2	383.1	369.7
110°	544.1	468.8	435.0	412.5	392.4	379.2	348.9
120°	596.2	487.7	440.9	416.8	394.1	371.4	339.6
135°	668.4	538.2	466.0	433.3	411.5	389.1	343.8
150°	796.3	630.3	531.9	471.9	442.6	424.2	389.9
Run VMG	919.5	727.8	614.1	544.9	509.9	478.3	427.1
Selected Courses							
Windward / Leeward	934.7	755.1	659.0	598.8	571.9	552.0	519.5
Circular Random	768.9	622.2	544.1	499.1	471.5	453.1	427.6
Coastal / Long Distance	933.2	706.0	589.2	517.2	481.9	453.4	407.4
Non Spinnaker	857.2	682.0	585.7	528.5	492.6	468.9	438.6

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	45.8°	43.9°	41.3°	40.1°	39.4°	39.0°	39.0°
Beat VMG	3.79	4.60	5.11	5.51	5.68	5.75	5.88
52°	5.96	7.13	7.68	7.98	8.14	8.21	8.29
60°	6.47	7.59	8.03	8.23	8.38	8.46	8.51
75°	7.02	7.98	8.39	8.61	8.77	8.89	9.06
90°	7.17	8.07	8.49	8.83	9.16	9.40	9.74
110°	6.62	7.68	8.28	8.73	9.18	9.49	10.32
120°	6.04	7.38	8.17	8.64	9.13	9.69	10.60
135°	5.39	6.69	7.73	8.31	8.75	9.25	10.47
150°	4.52	5.71	6.77	7.63	8.13	8.49	9.23
Run VMG	3.92	4.95	5.86	6.61	7.06	7.53	8.43
Gybe Angles	143.0°	146.5°	148.0°	149.5°	151.0°	175.0°	178.0°