

BOAT Name Wild Joe Sail Nr HUN 7002	GPH 420.6	HULL Length Overall 18.615m Maximum Beam 4.062m Displacement 10,365kg Draft 4.131m IMS Reg. Division Performance Dynamic Allowance 0.002% Fwd Accommodation No Hull Construction Carbon, Trim Tab Carbon Rudder Yes Crew Arm Extension
GENERAL Class Reichel/Pugh 60 Designer Reichel/Pugh Builder Azura Yachts Series 05/2002 Age 05/2002 Age Allowance 0.487% Offset File WILDJOEc.off - 12/09/2018 12:02:30 Measurement by Marinov - 12/05/2011		IMSL 17.670m VCGD 0.037m Sink 38.29kg/mm RL 16.643m VCGM -0.075m WS 49.96m² LSM0 17.374m Displacement/Length ratio 1.9764



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	411.2			467.0		
Time on Time	1.4590			1.4454		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	478.9	376.7	319.0	624.0	475.6	396.6
Time on Time	1.4096	1.7919	2.1163	1.0817	1.4194	1.7020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	687.7	580.5	540.5	517.6	492.7	478.3	467.5
52°	442.6	388.8	368.1	357.1	346.5	334.9	324.3
60°	411.6	370.8	352.9	341.1	330.6	316.2	304.3
75°	391.4	355.9	331.0	315.6	305.3	295.2	275.3
90°	393.3	352.6	321.3	297.5	284.2	274.7	254.7
110°	432.1	367.0	335.6	309.2	283.5	254.3	230.2
120°	445.2	366.8	330.7	304.7	282.5	257.7	223.8
135°	499.8	390.8	348.2	309.9	275.2	250.1	216.6
150°	599.4	464.1	394.5	352.2	322.9	286.8	226.2
Run VMG	692.2	535.9	455.5	411.5	372.9	331.2	261.2

Certificate

Number
ORC Ref **CRO00082235**
Issued On **21/09/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default **1,513kg**
Maximum **1,100kg**
Minimum* **825kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	451.7	1.3283
Non Spin OSN	445.9	1.3457

Selected Courses							
Windward / Leeward	689.9	558.2	498.0	464.5	432.8	404.7	364.3
Circular Random	577.8	468.6	409.2	372.5	346.8	326.9	296.9
Coastal / Long Distance	690.1	524.2	446.4	396.5	361.0	327.8	278.5
Non Spinnaker	627.4	506.0	439.0	397.4	368.7	347.4	316.7

Sails Limitations

Headsails	Spinnakers
8	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	44.2°	40.9°	39.6°	40.2°	38.5°	37.3°	36.6°
Beat VMG	5.24	6.20	6.66	6.96	7.31	7.53	7.70
52°	8.13	9.26	9.78	10.08	10.39	10.75	11.10
60°	8.75	9.71	10.20	10.56	10.89	11.39	11.83
75°	9.20	10.12	10.88	11.41	11.79	12.20	13.08
90°	9.15	10.21	11.20	12.10	12.67	13.10	14.13
110°	8.33	9.81	10.73	11.64	12.70	14.16	15.64
120°	8.09	9.82	10.89	11.81	12.74	13.97	16.08
135°	7.20	9.21	10.34	11.62	13.08	14.40	16.62
150°	6.01	7.76	9.13	10.22	11.15	12.55	15.92
Run VMG	5.20	6.72	7.90	8.75	9.65	10.87	13.78
Gybe Angles	140.9°	140.5°	146.5°	151.6°	145.2°	142.7°	144.5°

Class Division Length

CDL = **17.158**

Storm Sails Areas

Heavy Weather Jib **70.31**
Storm Jib (JL=14.83) **26.04**
Storm Trysail **35.89**

Owner

BOAT	
Name Wild Joe	Sail Nr HUN 7002
File HUN7002	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Boom Inclining		
Flotation date 31/08/2018	SG 1.0230	
FFM 1.606	FF 1.608	SFFP 0.600
FAM 1.196	FA 1.197	SAFP 18.275
W1 120.9	PD1 233.0	WD 8.160
W2 120.9	PD2 229.5	GSA 1.0
W3 120.9	PD3 231.8	RSA 1.0
W4 120.9	PD4 241.7	PLM 9000.0
LCF from stem on CL / on sheer	10.447 / 10.631	
Maximum beam station from stem	13.000	
RM Measured	332.1kg·m	
RM Default	321.6kg·m	
Limit of positive stability / Stab.Index	105.0° / 113.1	
Freeboard at mast at 7.800	1.448	



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IMS Measurement Certificate

RIG	
Forestay Tension Aft & Forward	Spreaders 3
Inner Stay None Fitted	Runners 0
Carbon Mast Yes	Jumper Struts None
Taper Hollows No	Jib Furler No
Fiber Rigging Yes	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 23.790	E 8.620
IG 22.709	J 7.080
ISP 25.949	SFJ 0.720
BAS 1.949	SPL 0.310
FSP 0.100	TPS 9.900
MDT1 0.160	MW 0.360
MDL1 0.360	GO 0.395
MDT2 0.160	BD 0.354
MDL2 0.310	MWT 0.310
TL 2.690	MCG

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type	No Propeller

COMMENTS	

MOVABLE BALLAST	
Keel Angle	40.0
List Angle	24.3
BLR Index	0.8234



Invalid for Racing

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DYNAMIC STABILITY SYSTEM	
Wing Span	2.660
Wing Angle	7.0
Chord Length	0.750
Maximum Thickness	0.105
Root Chord Distance	1.420

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	1.340	2.40	3.51	5.42	6.84	124.41	127.06	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	Area	Formula		
	28.12	25.29	26.70	15.30	15.70	342.27	AS · (SFL + 4·SHW) / 6		

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.17	1.08	2.04	3.78	5.50	7.24	22.94	85.79				Unknow	JLE
0.17	1.09	2.06	3.76	5.47	7.22	22.83	85.15			21/09/2018	Unknow	J2
0.17	1.07	2.04	3.73	5.45	7.24	22.77	84.62	Y			Unknow	JME
0.16	1.07	2.00	3.78	5.52	7.22	22.65	84.54	Y			Unknow	JTC
0.25	1.03	1.90	3.59		7.20	22.91	83.79			22/01/2015	Unknow	JHF
	0.90	1.74	3.43	5.14	6.95	19.40	67.13	Y			Unknow	J4D
		1.40	2.83	4.28	5.73	21.24	60.86	Y			Unknow	SPI staysail
		1.40	2.70	3.96	5.21	14.36	38.35	Y	Y		Unknow	Inner jib

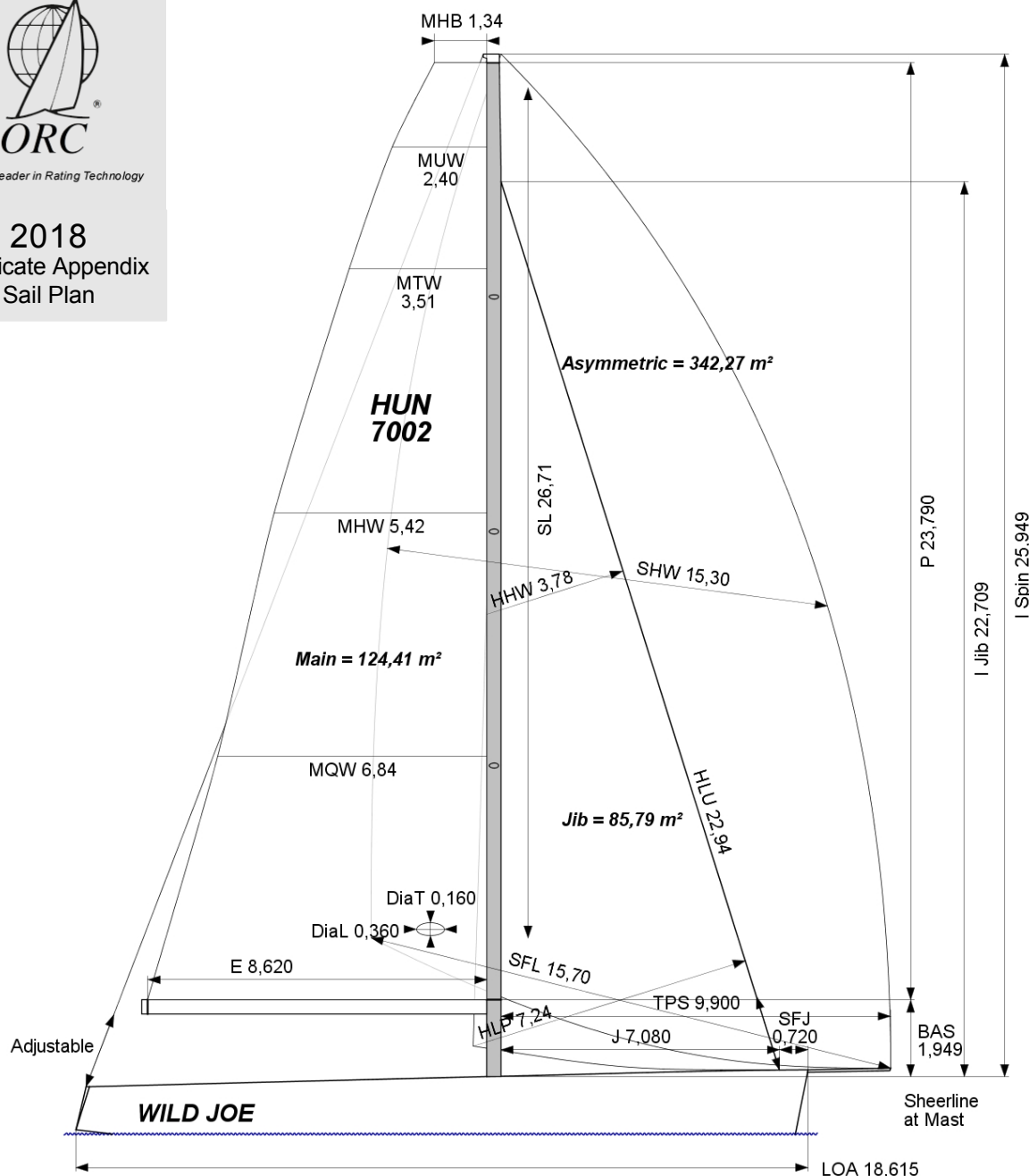
MEASUREMENT INVENTORY				
Measurer Marinov CRO5				
Date 31/08/2018				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	Yanmar	4JH3-Ti	
Id	Item	Weight Description		

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG Condtn Description
4	Tank	Water	PVC Fix.	210.0	10.30	0-0 port
3	Tank	Disel	Remuv.	100.0	15.00	0-0 center
port	Tank	Disel	PVC Fix.	125.0	10.30	40-0 port
1	Tank	Hid.oil	Fix.	25.0	7.30	0-0 starboard
Id	Item	Weight	Distance	VCG Description		
3	Battery		7.80	2x180Ah starboard		
2	Battery		8.80	4x180 Ah starboard		
1	Battery		10.80	60 Ah starboard		



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	1.340	2.40	3.51	5.42	6.84	123.34	Marinov	19/03/2015		Unknown	

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.17	1.08	2.04	3.78	5.50	7.24	22.94	102%	85.79						Unknown	JLE
1	0.17	1.09	2.06	3.76	5.47	7.22	22.83	102%	85.15			Marinov	21/09/2018	North Sails	Nylon	Unknown J2
2	0.17	1.07	2.04	3.73	5.45	7.24	22.77	102%	84.62	Y					Unknown	JME
4	0.16	1.07	2.00	3.78	5.52	7.22	22.65	102%	84.54	Y					Unknown	JTC
8	0.25	1.03	1.90	3.59		7.20	22.91	102%	83.79			NS Loft	22/01/2015		Unknown	JHF
5		0.90	1.74	3.43	5.14	6.95	19.40	98%	67.13	Y					Unknown	J4D
6			1.40	2.83	4.28	5.73	21.24	81%	60.86		Y				Unknown	SPI staysail

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (5)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
4	28.12	25.29	26.70	15.30	15.70	342.27	asym			North sails	Nylon	A2G
7	28.75	23.80	26.27	15.15	16.10	335.88	asym	ITA 122	14/05/2014	North Sails	Nylon	A4
1	28.00	25.54	26.77	12.28	15.03	286.22	asym	Marinov	02/05/2011	North sails	Nylon	1 AC
5	27.65	23.80	25.73	12.06	13.15	263.21	asym				Unknown	A3B
6	26.08	24.30	25.19	10.02	13.16	223.52	asym	Duvančić	17/09/2013	North sails	Unknown	Code 0