

BOAT Name WILD OATS XI Sail Nr AUS 10001	GPH 318.2	HULL Length Overall 30.480m Maximum Beam 5.092m Displacement 28,076kg Draft 5.891m IMS Reg. Division Performance Dynamic Allowance 0.001% Fwd Accommodation No Hull Construction Light, Aramid, Light Carbon Rudder Yes Crew Arm Extension
GENERAL Class REICHEL/PUGH 30m Designer REICHEL/PUGH Builder Mc Conaughy Boats Series 11/2015 Age 12/2015 Age Allowance 0.130% Offset File wildoatsXI_2015.off - 11/12/2015 Measurement by - 17/11/2016		IMSL 30.091m VCGD -0.700m Sink 86.85kg/mm RL 28.463m VCGM -0.834m WS 108.00m² LSM0 30.411m Displacement/Length ratio 0.9983



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	314.4			356.7		
Time on Time	1.9085			1.8925		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	355.6	287.4	245.6	468.8	365.6	302.7
Time on Time	1.8981	2.3489	2.7487	1.4400	1.8465	2.2298

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	532.1	455.3	417.4	395.8	375.1	363.4	352.5
52°	342.5	302.7	285.8	276.9	266.3	258.7	249.4
60°	317.7	287.8	274.7	266.1	255.0	245.9	236.0
75°	288.3	268.5	254.5	244.0	235.2	223.6	211.3
90°	280.1	258.6	242.9	231.2	222.3	215.6	195.6
110°	295.5	261.8	236.3	221.8	210.5	201.1	187.1
120°	303.1	266.6	246.2	224.0	208.1	196.3	179.8
135°	349.3	281.9	253.9	230.2	210.5	195.6	172.4
150°	428.4	340.3	308.2	275.9	245.1	218.6	179.4
Run VMG	494.6	393.0	355.9	318.6	283.0	252.4	207.5

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Number **2779**
ORC Ref **AUS00000220**
Issued On **09/07/2019**
VPP Ver. **2019 1.01**
Valid until **30/06/2020**

Crew Weight

Default **3,363kg**
Maximum **2,125kg**
Minimum* **1,594kg**
**when applied by the NoR and SI*
Non Manual Pwr **Yes**

Special Scoring

	ToD	ToT
Non Spin GPH	333.4	1.7996
Non Spin OSN	331.4	1.8105

Selected Courses							
Windward / Leeward	513.4	424.2	386.7	357.2	329.1	307.9	280.0
Circular Random	430.0	352.2	310.2	284.1	265.8	251.6	230.4
Coastal / Long Distance	511.5	397.0	345.1	304.5	274.8	251.5	217.0
Non Spinnaker	453.2	370.1	324.9	296.8	277.0	261.5	237.1

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	44.6°	41.3°	39.9°	38.3°	37.1°	35.6°	35.1°
Beat VMG	6.77	7.91	8.63	9.10	9.60	9.91	10.21
52°	10.51	11.89	12.60	13.00	13.52	13.92	14.43
60°	11.33	12.51	13.11	13.53	14.12	14.64	15.25
75°	12.49	13.41	14.14	14.75	15.31	16.10	17.04
90°	12.85	13.92	14.82	15.57	16.20	16.70	18.41
110°	12.18	13.75	15.23	16.23	17.10	17.90	19.25
120°	11.88	13.50	14.62	16.07	17.30	18.34	20.03
135°	10.31	12.77	14.18	15.64	17.10	18.41	20.88
150°	8.40	10.58	11.68	13.05	14.69	16.47	20.07
Run VMG	7.28	9.16	10.11	11.30	12.72	14.26	17.35
Gybe Angles	136.8°	139.0°	141.5°	145.0°	143.3°	143.9°	150.8°

Class Division Length

CDL = **29.279**

Storm Sails Areas

Heavy Weather Jib **175.2**
Storm Jib (JL=23.43) **64.92**
Storm Trysail **91.98**

Owner

BOAT	
Name WILD OATS XI	Sail Nr AUS 10001
File 2779	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 06/12/2015			SG 1.0250		
FFM 2.204	FF 2.204	SFFP 1.800			
FAM 1.440	FA 1.446	SAFP 30.480			
W1 112.5	PD1 51.0	WD 20.830			
W2 225.0	PD2 102.0	GSA 19.4			
W3 337.5	PD3 153.0	RSA 6400.0			
W4 450.0	PD4 204.0	PLM 2040.0			
LCF from stem on CL / on sheer			18.142 / 18.306		
Maximum beam station from stem			22.010		
RM Measured			1635.4kg-m		
RM Default			2078.1kg-m		
Limit of positive stability / Stab.Index			108.8° / 123.8		
Freeboard at mast at 14.690			1.749		



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RIG					
Forestay Tension Aft	Spreaders 5				
Inner Stay Adjustable	Runners 3				
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 39.400	E 13.340	MDT1 0.200	MW 0.455		
IG 35.983	J 14.400	MDL1 0.455	GO 0.475		
ISP 41.663	SFJ 0.290	MDT2 0.183	BD 0.663		
BAS 2.247	SPL	MDL2 0.363	MWT 1050.0		
FSP 0.000	TPS 18.600	TL 5.700	MCG 16.590		

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type	No Propeller

COMMENTS	
DSS system removed new J and longer forestay fitted and inner forestay	

MOVABLE BALLAST			
Keel Angle 43.0	Water Ballast Volume 2,552		
List Angle 26.9	Water Ballast LCG 24.68		
BLR Index 0.9173	Water Ballast VCG 0.76		
	Water Ballast TCG 1.84		

DYNAMIC STABILITY SYSTEM			
Wing Span	Maximum Thickness		
Wing Angle	Root Chord Distance		
Chord Length			



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	4.660	5.42	7.13	9.44	11.44	362.21	371.58	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric									
Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	44.55	43.84	44.20	22.74	26.92	868.28	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
0.10	4.08	8.30	15.87	21.34	25.25	43.17	619.09		Y	14/12/2016	Carbon	R1
0.24		4.16	7.85	11.50	15.00	38.34	296.81	Y		24/11/2016	Carbon	Fits on Fixed Forestay
0.16	1.55	2.95	5.84	8.81	11.88	36.31	214.52	Y		13/04/2015	Carbon	Fits on inner Forestay forestay

MEASUREMENT INVENTORY				
Measurer 2015				
Date 06/12/2015				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	YANMAR	4LHA-STP	
Id	Item	Weight Description		

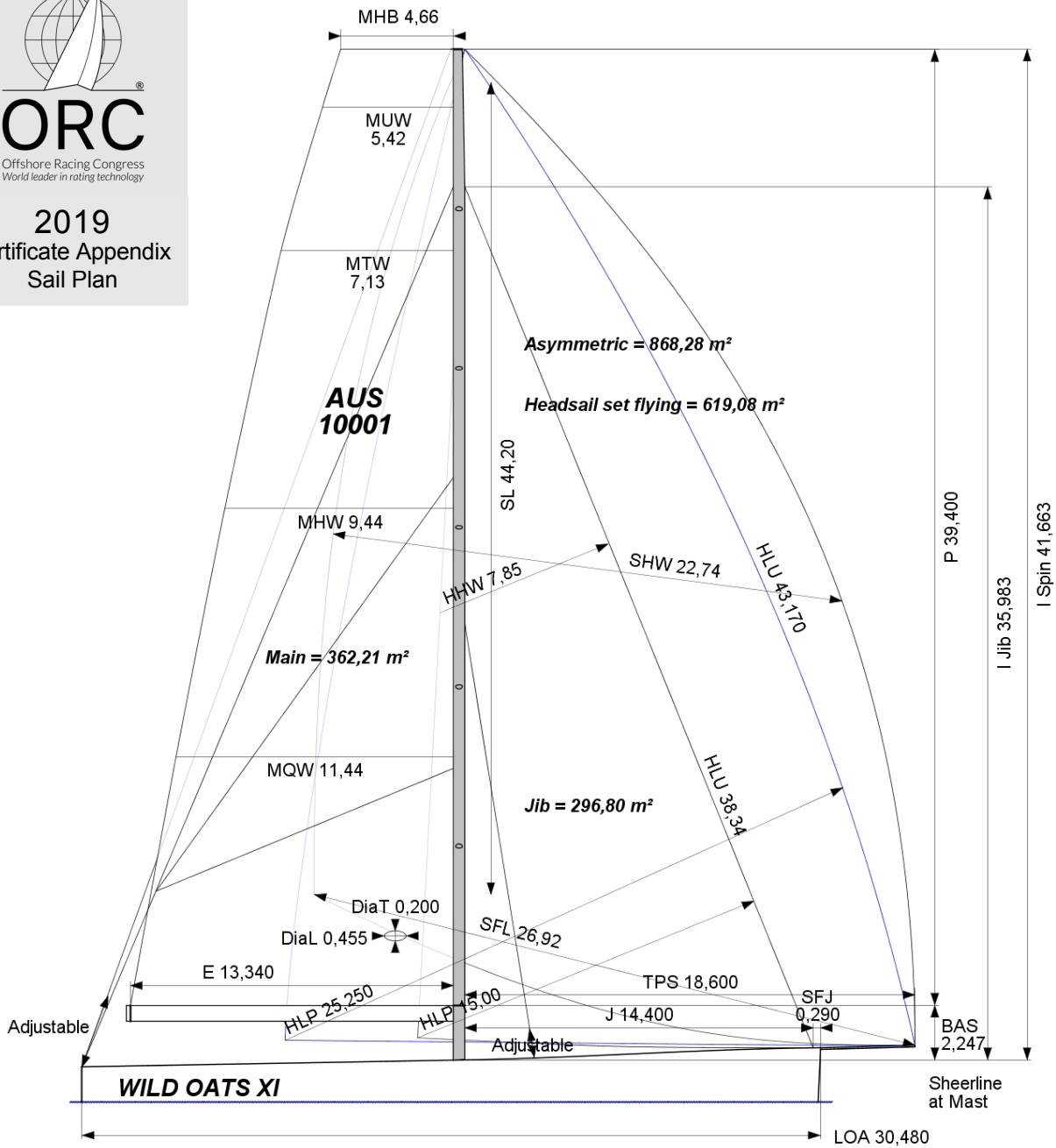
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
4	Tank Fuel		Carbon	350.0	21.60		155.0
3	Tank Fuel		Carbon	350.0	21.60		155.0
2	Tank Water		Carbon	65.0	23.60		0.0
1	Tank Water		Carbon	65.0	23.60		0.0
Id	Item	Weight	Distance	VCG Description			
2	Battery	25.5	18.80	1 X 12v Sealed ENGINE			
1	Battery	56.0	18.80	1 X 12 v Sealed HOUSE			
Water Ballast Tanks							
Id	Volume	Distance	VCG	TCG Description			
2	1,165	29.91	0.65	1.45 2 tanls one			
1	1,387	20.28	0.86	2.16 2 tanks one			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	4.66	5.42	7.13	9.44	11.44	362.21		14/12/2016	North	Carbon	

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
4	0.10	4.08	8.30	15.87	21.34	25.25	43.17	175%	619.09		Y		14/12/2016	North	Carbon	R1
3	0.24	4.16	4.16	7.85	11.50	15.00	38.34	104%	296.81	Y			24/11/2016	North	Carbon	Fits on Fixed Forestay
2	0.16	1.55	2.95	5.84	8.81	11.88	36.31	83%	214.52	Y			13/04/2015	North	Carbon	Fits on inner Forestay

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
2	44.55	43.84	44.20	22.74	26.92	868.29	asym		25/06/2015	North	Unknown	