

BOAT Name WILD OATS XI Sail Nr AUS 10001	GPH 319.3	HULL Length Overall 30.480m Maximum Beam 5.092m Displacement 28,422kg Draft 5.895m IMS Reg. Division Performance Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Light, Aramid, Light Carbon Rudder Yes Crew Arm Extension IMSL 30.116m VCGD -0.662m Sink 87.10kg/mm RL 28.452m VCGM -0.801m WS 108.44m²
GENERAL Class REICHEL/PUGH 30m Designer REICHEL/PUGH Builder Mc Conaughy Boats Series 11/2015 Age 12/2015 Age Allowance 0.000% Offset File wildoatsXI_2015.off - 11/12/2015 Measurement by Anderson - 09/01/2015		



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2015
ORC International
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Rating Office

Offshore
Racing
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	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	313.5			356.8		
Time On Time	1.9141			1.8918		
Performance Line	1.563	71.4		1.691	230.0	
Triple Number	Low 1.8683	Medium 2.3567	High 2.7575	Low 1.4138	Medium 1.8544	High 2.2161

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	573.0	472.3	423.9	395.9	381.4	370.9	357.3
52°	362.5	308.9	286.9	276.0	268.7	261.9	251.3
60°	333.1	291.3	275.2	264.8	256.4	248.6	237.4
75°	295.9	270.4	254.6	242.3	233.4	224.9	209.9
90°	286.4	261.1	242.5	229.3	218.6	209.6	192.3
110°	293.6	265.2	237.7	219.4	204.7	192.4	175.3
120°	298.4	264.5	248.3	223.6	205.2	188.9	168.2
135°	338.8	274.3	251.5	227.7	210.4	195.0	170.8
150°	416.8	331.9	299.8	268.8	239.9	216.2	179.8
Run VMG	481.2	383.3	346.2	310.4	277.0	249.7	207.6

Certificate

Number **2779**
ORC Ref **AUS00050502**
Issued On **16/12/2015**
VPP Ver. **2015 1.01**
Valid until **30/06/2016**

Crew Weight

Declared **2,125kg**
Default* **3,374kg**
Non Manual Pwr **Yes**

Special Scoring

	ToD	ToT
Non Spin GPH	343.8	1.7452
Non Spin OSN	339.9	1.7654
N/S Perf. Line	35.2	1.348

Selected Courses							
Windward / Leeward	527.1	427.8	385.0	353.1	329.2	310.3	282.5
Circular Random	436.2	354.9	310.8	283.7	264.9	250.7	229.1
Ocean for PCS	467.8	371.9	317.6	282.5	257.3	237.6	207.1
Non Spinnaker	475.5	384.1	334.1	303.4	282.3	265.8	239.0

Sails Limitations

Headsails	Spinnakers
8	4

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	46.7°	42.6°	40.6°	38.5°	37.4°	36.8°	35.7°
Beat VMG	6.28	7.62	8.49	9.09	9.44	9.71	10.07
52°	9.93	11.65	12.55	13.04	13.40	13.74	14.32
60°	10.81	12.36	13.08	13.59	14.04	14.48	15.17
75°	12.17	13.31	14.14	14.86	15.42	16.01	17.15
90°	12.57	13.79	14.84	15.70	16.47	17.17	18.73
110°	12.26	13.57	15.14	16.41	17.59	18.72	20.53
120°	12.06	13.61	14.50	16.10	17.54	19.06	21.40
135°	10.63	13.13	14.31	15.81	17.11	18.46	21.07
150°	8.64	10.85	12.01	13.39	15.01	16.65	20.02
Run VMG	7.48	9.39	10.40	11.60	13.00	14.42	17.34
Gybe Angles	137.7°	139.8°	137.1°	138.8°	144.2°	144.6°	149.2°

Class Division Length

CDL = **29.286**

Storm Sails Areas

Heavy Weather Jib **175.3**
Storm Jib (JL=23.43) **64.95**
Storm Triesail **92.39**

Owner

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

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 06/12/2015	SG 1.0250	
FFM 2.200	FF 2.200	SFFP 1.800
FAM 1.436	FA 1.442	SAFP 30.480
W1 112.50	PD1 51.0	WD 20.830
W2 225.00	PD2 102.0	GSA 19.4
W3 337.50	PD3 153.0	RSA 6400.0
W4 450.00	PD4 204.0	PLM 2040.0
LCF from stem on CL / on sheer		18.162 / 18.326
Maximum beam station from stem		22.010
RM Measured		1635.4kg·m
RM Default		1930.8kg·m
Limit of positive stability / Stab.Index		108.3° / 123.3
Freeboard at mast at 14.690		1.745



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Measurements Datasheet

RIG				
Forestay Tension Aft	Spreaders 5			
Inner Stay None Fitted	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 13.400	MDT1 0.200	MW 0.455	
IG 35.983	J 12.260	MDL1 0.455	GO 0.475	
ISP 41.663	SFJ 2.430	MDT2 0.183	BD 0.663	
BAS 2.247	SPL 	MDL2 0.363	MWT 1025.0	
FSP 0.000	TPS 18.600	TL 5.700	MCG 15.990	

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

COMMENTS	

MOVEABLE BALLAST	
Keel Angle 43.0	Water Ballast Volume 2,552
List Angle 26.9	Water Ballast LCG 24.68
	Water Ballast VCG 0.76
	Water Ballast TCG 1.84

DYNAMIC STABILITY SYSTEM	
Wing Span 3.250	Maximum Thickness 0.077
Wing Angle 90.0	Root Chord Distance 1.825
Chord Length 0.550	



Invalid for Racing

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SAILS (Maximum Areas)						
Mainsail	HB	MGT	MGU	MGM	MGL	
	4.740	5.50	7.18	9.50	11.49	
						Area Area (r) Formula
						364.55 374.06 P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)
Symmetric						
Not Available						
Asymmetric						
	SLU	SLE	ASL	AMG	ASF	
	45.22	45.42	45.32	24.30	30.11	
						961.61 ASL · (ASF + 4·AMG) / 6

HEADSAILS												
Area = 0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)												
JH	JGT	JGU	JGM	JGL	LPG	JL	Area	Btn	Fly	Meas.Date	Material	Comment
0.10	4.87	9.48	17.8	24.4	29.63	43.70	719.52		Y	06/12/2015	Carbon	on a roller furler
0.16	1.55	2.95	5.84	8.81	11.88	36.31	214.54	Y		13/04/2015	Carbon	Fits on forestay

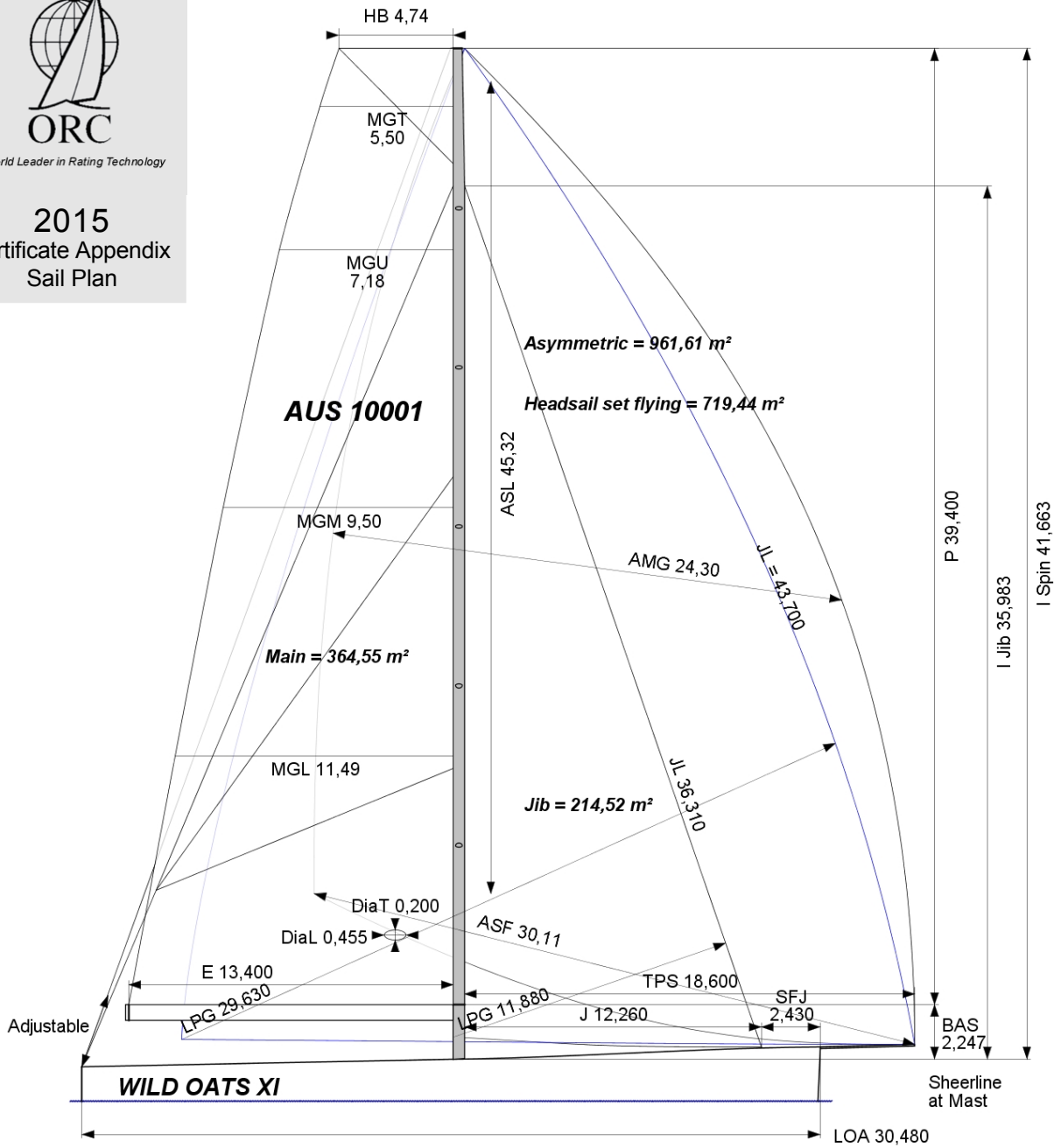
MEASUREMENT INVENTORY				
Measurer Anderson 2015				
Date 06/12/2015				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	YANMAR	4LHA-STP	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY						
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG Condtm Description</i>
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
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>		
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						
<i>Id</i>	<i>Volume</i>	<i>Distance</i>	<i>VCG</i>	<i>TCG Description</i>		
2	1,165	29.91	0.65	1.45 2 tanks one		
1	1,387	20.28	0.86	2.16 2 tanks one		



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Sail Plan



SAILS INVENTORY

MAINSAIL																
Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	4.740	5.50	7.18	9.50	11.49	364.55	Anderson	05/11/2014	North	Carbon						
HEADSAILS																
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.10	4.87	9.48	17.8	24.4	29.63	43.70	242%	719.52		Y	Anderson	06/12/2015	North	Carbon	on a roller furler
2	0.16	1.55	2.95	5.84	8.81	11.88	36.31	97%	214.54	Y		Anderson	13/04/2015	North	Carbon	Fits on forestay
SYMMETRIC SPINNAKERS																
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment							
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	45.22	45.42	45.32	24.30	30.11	961.61	asym	Andersdon	17/12/2015	North	Unknown					
2	44.88	44.40	44.64	22.23	27.26	864.38	asym	Anderson	25/06/2015	North	Unknown					