

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
GENERAL Class REICHEL/PUGH 30m Designer REICHEL/PUGH Builder Mc Conaughy Boats Series 11/2015 Age 12/2015 Age Allowance 0.033% Offset File wildoatsXI_2015.off - 11/12/2015 Measurement by Anderson - 09/01/2015		IMSL 30.116m VCGD -0.671m Sink 87.10kg/mm RL 27.911m VCGM -0.809m WS 108.44m² LSMO 30.482m Displacement/Length ratio 1.0035



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	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	313.4			356.3		
Time On Time	1.9145			1.8945		
Performance Line	1.201	-1.3		1.640	209.5	
Triple Number	Low 1.8632	Medium 2.3559	High 2.7825	Low 1.4099	Medium 1.8533	High 2.2355

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	576.2	474.3	427.0	399.7	376.9	365.8	353.2
52°	363.2	310.2	288.4	277.2	265.9	258.7	247.9
60°	333.9	292.2	276.3	266.2	253.6	244.9	233.4
75°	296.4	271.0	255.5	243.3	232.2	220.0	204.5
90°	287.0	261.3	243.0	229.8	218.9	209.8	185.9
110°	294.1	265.3	237.3	219.2	204.3	192.2	175.2
120°	298.5	264.6	247.9	222.2	203.8	187.7	168.0
135°	339.0	277.8	251.4	226.5	209.9	194.6	170.2
150°	417.0	331.7	298.7	266.8	240.8	215.5	177.6
Run VMG	481.5	383.1	344.9	308.1	278.1	248.9	205.7

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VPP Ver. **2016 1.01**
Valid until **30/06/2017**

Crew Weight

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

Special Scoring

	ToD	ToT
Non Spin GPH	341.4	1.7575
Non Spin OSN	337.5	1.7780
N/S Perf. Line	-30.4	1.031

Selected Courses							
Windward / Leeward	528.9	428.7	386.0	353.9	327.5	307.4	279.5
Circular Random	437.2	355.5	310.9	283.1	263.7	248.7	226.3
Ocean for PCS	547.5	423.7	352.6	306.7	274.0	248.8	211.2
Non Spinnaker	474.1	382.3	331.9	300.6	278.7	261.5	233.4

Sails Limitations	
Headsails	8
Spinnakers	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	47.1°	42.6°	40.7°	39.9°	37.8°	36.3°	35.3°
Beat VMG	6.25	7.59	8.43	9.01	9.55	9.84	10.19
52°	9.91	11.61	12.48	12.99	13.54	13.92	14.52
60°	10.78	12.32	13.03	13.52	14.19	14.70	15.42
75°	12.15	13.29	14.09	14.79	15.50	16.36	17.60
90°	12.54	13.78	14.82	15.67	16.44	17.16	19.37
110°	12.24	13.57	15.17	16.43	17.62	18.73	20.55
120°	12.06	13.60	14.52	16.20	17.66	19.18	21.43
135°	10.62	12.96	14.32	15.89	17.15	18.50	21.15
150°	8.63	10.85	12.05	13.49	14.95	16.70	20.26
Run VMG	7.48	9.40	10.44	11.68	12.95	14.47	17.50
Gybe Angles	137.7°	140.3°	137.6°	139.2°	141.0°	145.1°	151.6°

Class Division Length

CDL = **29.016**

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 112.5	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		18.162 / 18.326
Maximum beam station from stem		22.010
RM Measured		1635.4kg·m
RM Default		1931.2kg·m
Limit of positive stability / Stab.Index		108.4° / 123.4
Freeboard at mast at 14.690		1.745

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
0418495254

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	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	4.740	5.50	7.18	9.50	11.49	364.55	374.06	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL			AS · (SFL + 4·SHW) / 6	
	45.22	45.42	45.32	24.30	30.11	961.61			

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	4.87	9.48	17.80	24.40	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

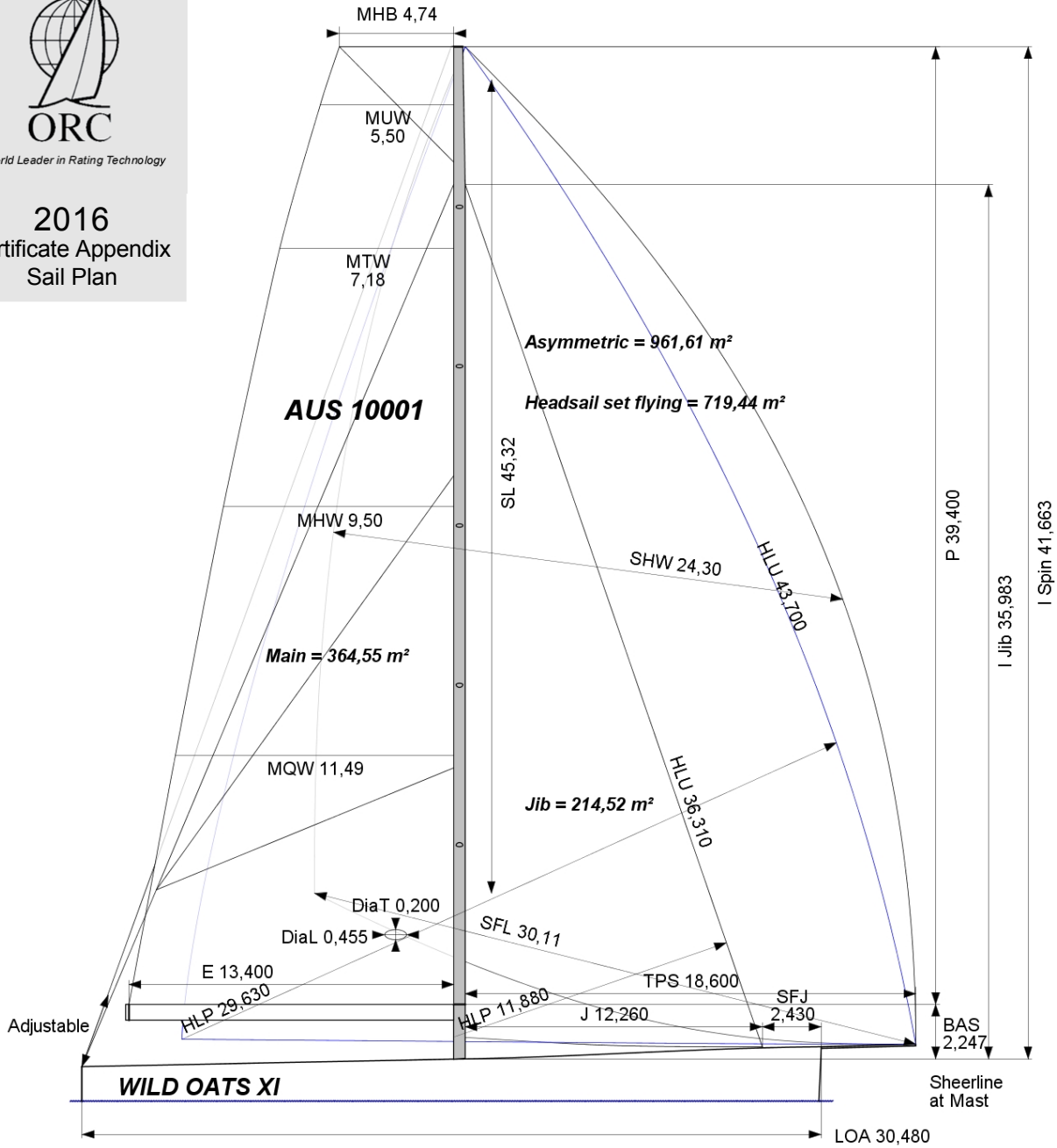
MEASUREMENT INVENTORY			
Measurer Anderson 2015			
Date 06/12/2015			
Comment			
Id	Item	Weight	Distance
VCG	Description		
Id	Item	Maker	Model
1	Engine	YANMAR	4LHA-STP
Id	Item	Weight Description	

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn
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 tanks one			
1	1,387	20.28	0.86	2.16 2 tanks one			



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Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	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	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.10	4.87	9.48	17.80	24.40	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	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	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	