

BOAT
Name TOKOLOSH
Sail Nr AUS 11111

GPH
375.6

HULL	Length Overall	27.383 m
	Maximum Beam	4.696 m
	Displacement	20,820 kg
	Draft	4.539 m
	IMS Reg. Division	Performance
	Dynamic Allowance	0.000%
	Fwd Accommodation	No
	Hull Construction	Carbon
	Carbon Rudder	Yes
	Crew Arm Extension	
	IMS L	24.175
	VCGD	-0.447
	VCGM	-0.456
	Sink	66.94 kg/mm
	Wetted Area	87.44 m²



World Leader in Rating Technology


2009
ORC International
Certificate

GENERAL
Class MAXI
Designer SIMONIS/VOOGD
Builder CONCEPT YACHTS
Series 04/2004
Age 12/2004
Age Allowance 0.325%
Offset File NICOR90.OFF - 25/12/2012 14:22:50
Measurement by ANDERSON - 20/12/2004

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	375.6			433.8		
Time On Time	1.5973			1.5561		
Performance Line	PLT	PLD		PLT	PLD	
	1.258	46.3		1.477	238.0	
Triple Number	Low	Medium	High	Low	Medium	High
	1.5309	2.0415	2.3642	1.1388	1.5659	1.8631

Rating Office

Offshore
Racing
Congress



World Leader in Rating Technology

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	698.7	581.5	512.1	476.2	455.2	450.0	450.1
52°	439.8	365.9	330.0	310.4	299.4	296.4	293.9
60°	402.3	335.4	305.9	291.2	282.6	278.4	275.2
75°	359.9	303.5	281.9	266.8	257.3	251.7	248.1
90°	348.0	289.8	266.2	251.0	241.2	234.5	227.8
110°	369.1	298.6	276.7	241.0	228.5	218.6	206.2
120°	375.8	299.8	273.0	254.6	241.1	220.6	197.2
135°	435.2	337.4	294.6	253.2	237.0	223.8	200.6
150°	531.8	412.8	346.4	307.6	273.7	245.9	202.8
Run VMG	614.1	476.6	400.0	355.2	316.0	284.0	234.1

Certificate
Number 900600
ORC Ref AUS00000277
Issued On 21/12/2009
VPP Ver. 1.11
Valid until 30/6/2010

Selected Courses							
Windward / Leeward	668.8	536.8	463.6	420.1	390.6	371.2	344.3
Circular Random	527.6	421.9	364.0	329.4	307.3	292.4	273.6
Ocean for PCS	566.0	442.3	371.7	327.2	297.1	275.3	245.1
Non Spinnaker	584.8	467.4	402.1	361.7	334.9	316.2	291.9

Crew Weight
Declared 2,020 kg
Default* 2,020 kg
Non Manual Power No

Special Scoring	
ToD	ToT
D. Hand OSN 379.4	1.5816
Non Spin. OSN 414.6	1.4473
N/S Perf. Line	

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	44.9°	47.2°	44.4°	42.8°	41.9°	41.6°	43.4°
Beat VMG	5.15	6.19	7.03	7.56	7.91	8.00	8.00
52°	8.19	9.84	10.91	11.60	12.02	12.15	12.25
60°	8.95	10.73	11.77	12.36	12.74	12.93	13.08
75°	10.00	11.86	12.77	13.49	13.99	14.30	14.51
90°	10.34	12.42	13.53	14.34	14.92	15.35	15.81
110°	9.75	12.06	13.01	14.94	15.76	16.47	17.46
120°	9.58	12.01	13.19	14.14	14.93	16.32	18.26
135°	8.27	10.67	12.22	14.22	15.19	16.09	17.94
150°	6.77	8.72	10.39	11.70	13.15	14.64	17.75
Run VMG	5.86	7.55	9.00	10.13	11.39	12.68	15.38
Gybe Angles	136.8°	136.0°	139.0°	142.0°	138.5°	141.5°	146.2°

Sails Limitations		
Genoas 0	Jibs 6	Spinnakers 4
Spinnaker configuration Asymmetric-CL		

Storm Sails Areas
Heavy Weather Jib 170.5
Storm Jib (JL=23.10) 63.17
Storm Trysail 68.78

Owner

BOAT	
Name TOKOLOSH	Sail Nr AUS 11111
File 9006.dxt	Data in meters/kilograms

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 No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 33.250	E 11.820	MDT1 0.218	TL 4.800
IG 35.543	J 12.830	MDL1 0.415	MWT 1032.0
ISP 35.543	SFJ 0.850	MDT2 0.172	MCG 12.780
SPS 0.000	SPL 0.000	MDL2 0.298	CPW
BAS 2.148	TPS 13.130	MW 0.418	BD 0.480
BAL 0.150	FSP 0.000	GO 0.418	BWT

MIZZEN RIG AND SAILS	
N/A	

COMMENTS

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 14/12/2009		SG 1.0250	
FFM 1.875	FF 1.875	SFFP 0.500	
FAM 1.447	FA 1.447	SAFP 24.875	
W1 76.000	PD1 57.0	WD 25.300	
W2 152.00	PD2 113.0	GSA 19.4	
W3 228.00	PD3 170.0	RSA 6400.0	
W4 304.00	PD4 226.0	PLM 2030.0	
Max. beam station / LCF from stem		17.483 / 14.569	
RM Measured / Default		1204.4 / 992.1	
Limit of positive stability		133.4°	
Stability Index		148.4	
Freeboard at mast at 13.680		1.651	

PROPELLER	
Type No Propeller	

WATER BALLAST			
FFW	WBV	LIST	29.3
FAW	ZERW	CANT	50.0
W1W	PD1W	WDW	
W2W	PD2W	GSAW	
W3W	PD3W	RSAW	
W4W	PD4W	PLMW	

CENTERBOARD	
N/A	



World Leader in Rating Technology

2009

IMS Measurement Certificate

Certificate	
Number 900600	
ORC Ref AUS00000277	
Issued On 21/12/2009	
VPP Ver. 1.11	
Valid until 30/6/2010	



World Leader In Rating Technology

SAILS (Maximum Areas)										
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula	
	0.170	2.51	4.48	7.48	9.59	154.80	229.74	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)		
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG	Area	Formula	
	0.21	1.34	2.60	4.83	7.14	35.80	12.10	196.35	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
Symmetric										
Not Available										
Asymmetric										
	SLU	SLE	ASL	AMG	ASF	Area	Formula			
	39.83	35.05	37.44	19.98	21.72	634.23	ASL · (ASF + 4·AMG) / 6			
Code Zero										
Not Available										

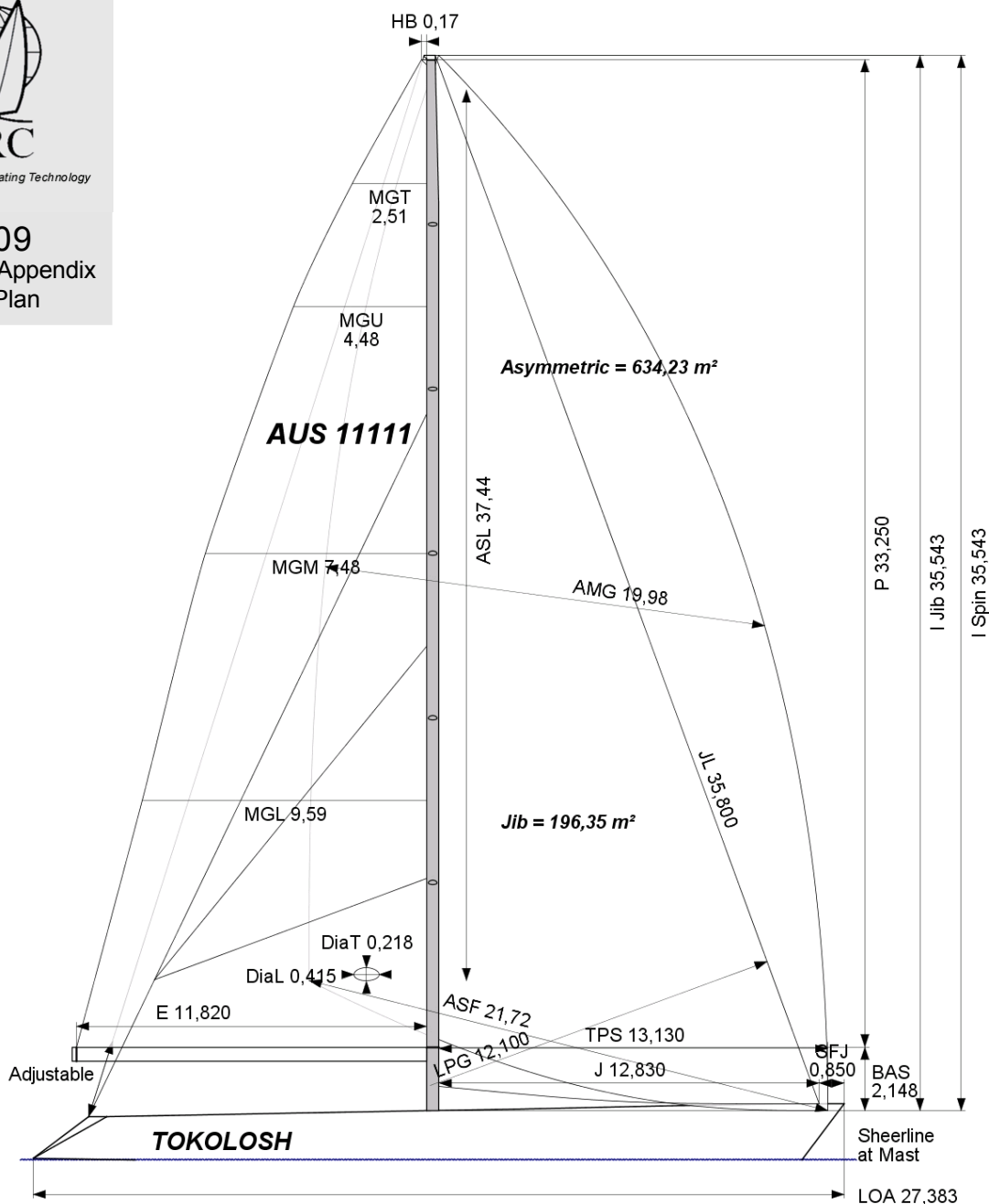
MEASUREMENT INVENTORY			
Measurer J Anderson 2015			
Date 17/12/2009			
Comment			
Id	Item	Weight	Distance
			VCG Description
1	Engine		Volkswagon 120HP
1	Deck Gear	15.0	Sheets

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
3	Tank Fuel		S/Steel	200.0	15.50		60.0	1/4 full
2	Tank Water		Rubber	100.0	13.00		0.0	Empty
1	Tank Water		Rubber	100.0	13.00		0.0	Empty
Id	Item	Weight	Distance	VCG Description				
2	Battery	23.0	16.90	1 x 12v sealed				
1	Battery	69.0	14.80	3 x 12v sealed				
2	Misc	25.0	18.30	Hy draulic Pump				
1	Misc	78.0	18.30	15HP Yanmar motor				



World Leader in Rating Technology

2009
Certificate Appendix
Sail Plan



SAILS INVENTORY														
MANSAIL														
Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacture	Material	Comment		
1	0.170	2.51	4.48	7.48	9.59	154.80	229.74	J Anderson	17/12/2009	North	Carbon			
JIBS / GENOAS														
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.21	1.34	2.60	4.83	7.14	12.10	35.80	94%	188.36	J	17/12/2009	North	Unknown	
1	0.21	1.34	2.60	4.83	7.14	9.54	31.20	74%	151.18	J	17/12/2009	North	Carbon	
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		
2	39.83	35.05	37.44	19.98	21.72	634.23	asym	J Anderson	17/12/2009	North	Unknown			
1	38.14	35.60	36.87	17.73	22.00	570.99	asym	J Anderson	17/12/2009	North		A3		