

BOAT Name SCALLYWAG Sail Nr HKG2276	GPH 293.0	HULL Length Overall 30.480m Maximum Beam 5.752m Displacement 27,800kg Draft 6.511m IMS Reg. Division Performance Dynamic Allowance 0.010% Fwd Accommodation Yes Hull Construction Carbon, Aramid Carbon Rudder Yes Crew Arm Extension IMSL 29.383m VCGD -1.565m Sink 102.48kg/mm RL 34.639m VCGM -1.592m WS 120.39m² LSM0 29.525m Displacement/Length ratio 1.0801
GENERAL Class SUPER MAXI Designer Andrew Dovell Builder RAGAMUFFIN YACHTIN Series 11/2014 Age 11/2014 Age Allowance 0.130% Offset File ragamuffin100 nk.off - 17/12/2018 Measurement by - 30/11/2014		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	286.5			328.0		
Time on Time	2.0939			2.0578		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	338.7	261.5	216.6	447.2	336.2	275.9
Time on Time	1.9927	2.5808	3.1158	1.5094	2.0080	2.4464

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	512.2	417.1	378.7	358.8	344.1	332.2	317.5
52°	321.6	281.5	264.5	251.5	237.1	226.8	213.1
60°	296.9	269.0	250.5	237.4	223.7	212.4	197.5
75°	274.3	248.0	227.5	214.3	205.0	186.5	171.8
90°	274.5	237.6	218.9	200.7	188.7	177.1	159.6
110°	285.8	247.8	215.4	195.9	178.6	169.8	155.1
120°	297.4	250.4	223.2	204.9	182.8	167.6	150.1
135°	339.0	277.4	238.9	211.0	185.9	172.8	151.2
150°	416.0	328.4	292.5	252.9	222.2	198.8	166.1
Run VMG	480.3	379.2	337.8	292.1	256.6	229.6	191.8

Selected Courses							
Windward / Leeward	496.2	398.2	358.3	325.4	300.3	280.9	254.7
Circular Random	407.5	328.7	285.0	257.3	237.7	222.8	201.1
Coastal / Long Distance	494.7	372.8	318.5	275.8	246.1	221.8	186.4
Non Spinnaker	440.0	354.3	306.6	276.0	253.8	236.2	209.7

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	47.3°	41.0°	38.1°	35.9°	35.0°	34.2°	38.0°
Beat VMG	7.03	8.63	9.51	10.03	10.46	10.84	11.34
52°	11.19	12.79	13.61	14.31	15.18	15.88	16.89
60°	12.13	13.38	14.37	15.16	16.10	16.95	18.22
75°	13.12	14.52	15.82	16.80	17.56	19.31	20.95
90°	13.11	15.15	16.44	17.94	19.08	20.33	22.55
110°	12.59	14.53	16.71	18.38	20.15	21.21	23.21
120°	12.10	14.38	16.13	17.57	19.69	21.48	23.98
135°	10.62	12.98	15.07	17.06	19.37	20.83	23.81
150°	8.65	10.96	12.31	14.23	16.20	18.10	21.67
Run VMG	7.50	9.49	10.66	12.33	14.03	15.68	18.77
Gybe Angles	137.4°	140.2°	134.2°	137.6°	139.1°	141.3°	147.3°

Certificate
Number **272700**
ORC Ref **AUS00000087**
Issued On **18/12/2018**
VPP Ver. **2018 1.00**
Valid until **30/06/2019**

Crew Weight
Default **3,224kg**
Maximum **3,224kg**
Minimum* **2,418kg**
**when applied by the NoR and SI*
Non Manual Pwr **Yes**

Special Scoring
ToD ToT
Non Spin GPH **315.2 1.9036**
Non Spin OSN **311.0 1.9293**

Sails Limitations
Headsails **8** Spinnakers **0**

Class Division Length
CDL = **32.014**

Storm Sails Areas
Heavy Weather Jib **195.1**
Storm Jib (JL=24.72) **72.27**
Storm Trysail **103.0**

Owner

BOAT	
Name SCALLYWAG	Sail Nr HKG2276
File 2727	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 5
Inner Stay None Fitted	Runners 1
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 40.900	E 14.400
IG 37.845	J 12.070
ISP 43.510	SFJ 0.970
BAS 2.420	SPL 0.330
FSP 0.000	TPS 17.740
MDT1 0.235	MW 0.397
MDL1 0.397	GO 0.452
MDT2 0.170	BD 0.620
MDL2 0.330	MWT 0.330
TL 5.400	MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 30/11/2018		SG 1.0250	
FFM 2.085	FF 2.085	SFFP 1.500	
FAM 1.228	FA 1.228	SAFP 30.480	
W1 202.0	PD1 50.0	WD 21.100	
W2 404.0	PD2 100.0	GSA 19.4	
W3 606.0	PD3 150.0	RSA 6400.0	
W4 808.0	PD4 200.0	PLM 2040.0	
LCF from stem on CL / on sheer		17.746 / 17.977	
Maximum beam station from stem		19.330	
RM Measured		3034.0kg-m	
RM Default		2068.9kg-m	
Limit of positive stability / Stab.Index		109.9° / 123.3	
Freeboard at mast at 13.040		1.738	



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IMS Measurement Certificate

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

COMMENTS	
wittyachting@gmail.com	

MOVABLE BALLAST			
Keel Angle 36.6	Water Ballast Volume 6,048		
List Angle 15.3	Water Ballast LCG 24.60		
BLR Index 1.0195	Water Ballast VCG 0.74		
	Water Ballast TCG 2.30		

BILGEBOARD			
BS 4.870	BT 0.110	BA 9.0	
BF 0.000	BX 12.440		
BC 0.720	BY 1.474		



Invalid for Racing

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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	5.000	5.93	7.85	10.50	12.57	412.81	425.44	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric									
Not Available									
Asymmetric									
Not Available									

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	5.00	10.00	19.10	25.70	29.30	45.50	777.91		Y	11/12/2014	Carbon	
	1.78	3.24	6.14		12.27	39.06	242.98	Y		15/11/2018	Unknow	

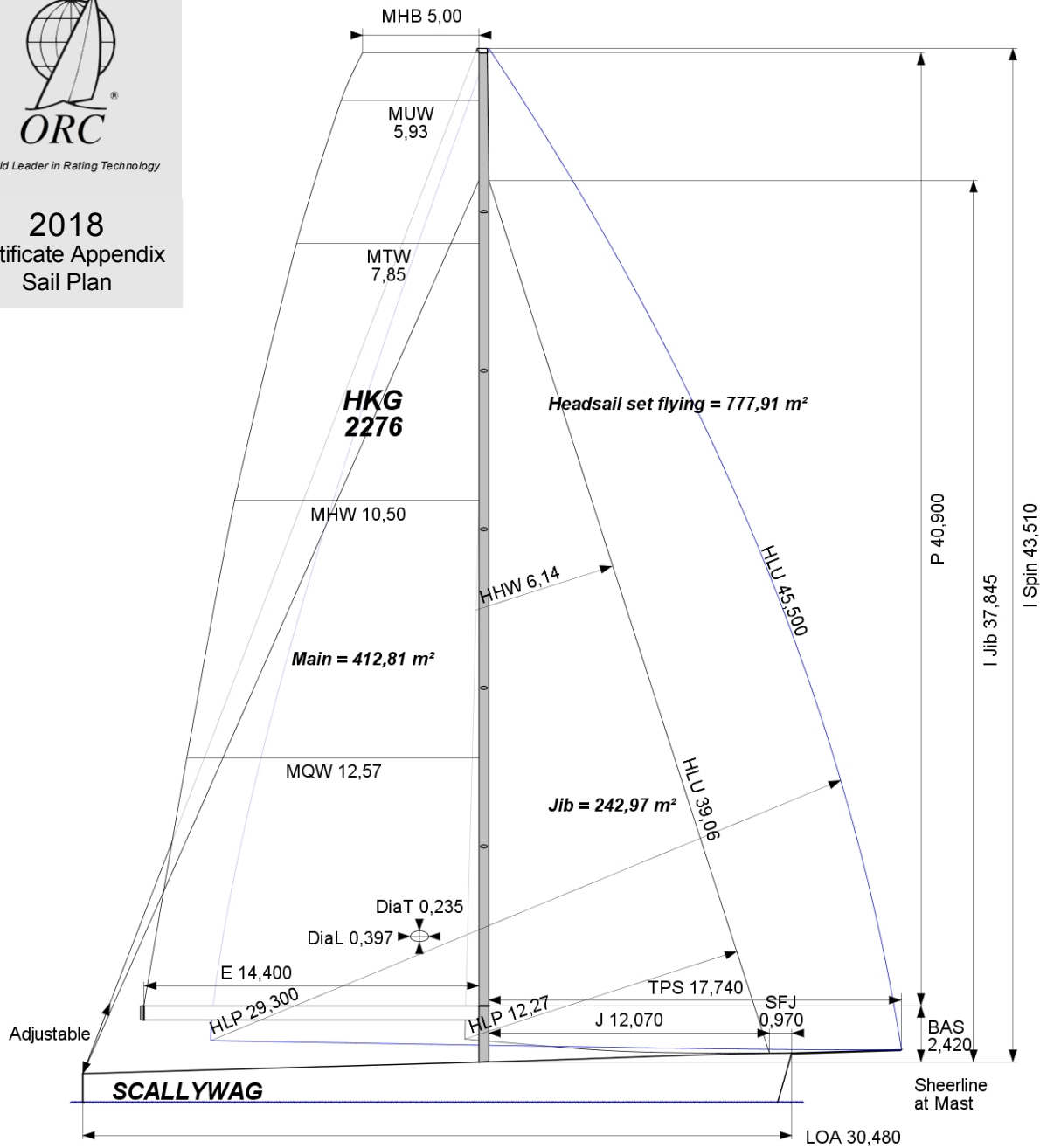
MEASUREMENT INVENTORY				
Measurer 2015				
Date 30/11/2014				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	STYRE	220hp	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
2	Tank FUEL		S/S	240.0	20.20		
1	Tank WATER		Rubber	200.0	13.14		0-0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
2	Battery	12.0	17.00	1 X 12v Sealed			
1	Battery	80.0	17.00	2 X 12v Sealed			
Water Ballast Tanks							
<i>Id</i>	<i>Volume</i>	<i>Distance</i>	<i>VCG</i>	<i>TCG</i>	<i>Description</i>		
4	1,624	29.25	0.67	1.99			
3	1,314	25.07	0.79	2.41			
2	1,472	23.02	0.77	2.42			
1	1,638	21.02	0.75	2.42			



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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					
3	5.00	5.93	7.85	10.50	12.57	412.81		30/11/2018		Unknown						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3	0.10	5.00	10.00	19.10	25.70	29.30	45.50	243%	777.91		Y		11/12/2014	Doyle	Carbon	
4		1.78	3.24	6.14		12.27	39.06	102%	242.98	Y			15/11/2018		Unknow	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				