

BOAT Name SCALLYWAG Sail Nr HKG2276	GPH 316.7	HULL Length Overall 30.480m Maximum Beam 5.752m Displacement 25,684kg Draft 5.596m IMS Reg. Division Performance Dynamic Allowance 0.003% Fwd Accommodation Yes Hull Construction Carbon, Aramid Carbon Rudder Yes Crew Arm Extension
GENERAL Class SUPER MAXI Designer Andrew Dovell Builder RAGAMUFFIN YACHTIN Series 11/2014 Age 11/2014 Age Allowance 0.065% Offset File ragamuffin100.off - 03/12/2014 Measurement by Anderson - 30/11/2014		IMSL 29.486m VCGD -0.748m Sink 97.23kg/mm RL 28.213m VCGM -0.754m WS 115.21m² LSMO 28.737m Displacement/Length ratio 1.0823




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SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	310.6			352.1		
Time On Time	1.9320			1.9168		
Performance Line	1.281	22.7		1.802	260.8	
Triple Number	Low 1.8971	Medium 2.3711	High 2.7464	Low 1.4479	Medium 1.8825	High 2.2314

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	565.0	467.6	422.9	397.5	376.8	366.8	356.2
52°	356.9	308.4	288.7	278.1	267.9	261.4	252.3
60°	328.2	292.0	277.2	267.9	255.9	248.1	238.3
75°	294.2	271.8	256.9	245.6	235.2	224.7	213.3
90°	285.6	261.4	244.5	232.0	222.9	214.7	196.6
110°	292.4	262.9	235.6	220.2	208.4	198.8	185.8
120°	298.0	265.3	244.8	219.2	204.3	192.7	177.5
135°	327.1	278.2	248.3	228.3	211.7	197.2	175.2
150°	401.4	319.2	287.7	261.1	237.5	216.0	179.3
Run VMG	463.5	368.6	332.2	301.4	274.2	249.4	207.1

Certificate

Number **272700**
ORC Ref **AJS00000270**
Issued On **22/07/2016**
VPP Ver. **2016 1.01**
Valid until **30/06/2017**

Crew Weight

Declared **3,102kg**
Default* **3,102kg**
Non Manual Pwr **Yes**

Special Scoring

	ToD	ToT
Non Spin GPH	335.3	1.7894
Non Spin OSN	331.4	1.8107
N/S Perf. Line	-14.5	1.091

Selected Courses							
Windward / Leeward	514.3	418.1	377.6	349.5	325.5	308.1	281.6
Circular Random	429.7	350.8	308.4	282.5	264.8	251.5	231.6
Ocean for PCS	534.8	415.9	348.3	305.2	275.0	252.0	217.6
Non Spinnaker	461.9	374.1	326.2	296.6	276.1	260.6	237.6

Sails Limitations

Headsails	Spinnakers
8	0

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	46.8°	41.8°	39.9°	38.7°	37.1°	35.7°	35.1°
Beat VMG	6.37	7.70	8.51	9.06	9.55	9.82	10.11
52°	10.09	11.67	12.47	12.94	13.44	13.77	14.27
60°	10.97	12.33	12.99	13.44	14.07	14.51	15.11
75°	12.24	13.25	14.01	14.66	15.31	16.02	16.88
90°	12.61	13.77	14.73	15.51	16.15	16.77	18.31
110°	12.31	13.69	15.28	16.35	17.27	18.11	19.38
120°	12.08	13.57	14.70	16.42	17.62	18.68	20.28
135°	11.01	12.94	14.50	15.77	17.01	18.26	20.55
150°	8.97	11.28	12.51	13.79	15.16	16.67	20.08
Run VMG	7.77	9.77	10.84	11.94	13.13	14.44	17.39
Gybe Angles	138.2°	142.0°	142.6°	144.1°	147.1°	144.7°	149.4°

Class Division Length

CDL = **28.852**

Storm Sails Areas


Heavy Weather Jib **195.1**
Storm Jib (JL=24.71) **72.27**
Storm Triesail **100.2**

Owner

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

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 30/11/2014		SG 1.0250	
FFM 2.041	FF 2.041	SFFP 1.500	
FAM 1.280	FA 1.280	SAFP 30.480	
W1 160.0	PD1 50.0	WD 21.100	
W2 320.0	PD2 100.0	GSA 19.4	
W3 480.0	PD3 150.0	RSA 6400.0	
W4 640.0	PD4 200.0	PLM 2040.0	
LCF from stem on CL / on sheer		17.154 / 17.390	
Maximum beam station from stem		19.330	
RM Measured		2403.2kg·m	
RM Default		2649.2kg·m	
Limit of positive stability / Stab.Index		113.1° / 125.9	
Freeboard at mast at 13.040		1.746	

RIG			
Forestay Tension Aft	Spreaders 5		
Inner Stay None Fitted	Runners 2		
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 14.000	MDT1 0.235	MW 0.397
IG 37.845	J 12.070	MDL1 0.397	GO 0.452
ISP 43.510	SFJ 0.970	MDT2 0.170	BD 0.620
BAS 2.420	SPL 	MDL2 0.330	MWT
FSP 0.000	TPS 17.740	TL 5.400	MCG




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IMS Measurement Certificate

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

COMMENTS	
witty.aching@gmail.com	

MOVEABLE BALLAST	
Water Ballast Volume	6,048
Water Ballast LCG	24.60
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		

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	5.003	5.83	7.67	10.29	12.28	403.77	415.43	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	29.03	45.50	775.99		Y	11/12/2014	Carbon	
0.11	3.18	6.41	12.91	19.52	25.78	45.01	582.12		Y	14/12/2013	Unknow	
0.21	1.72	3.24	6.11	9.04	12.24	38.35	235.87	Y		09/12/2013	Carbon	

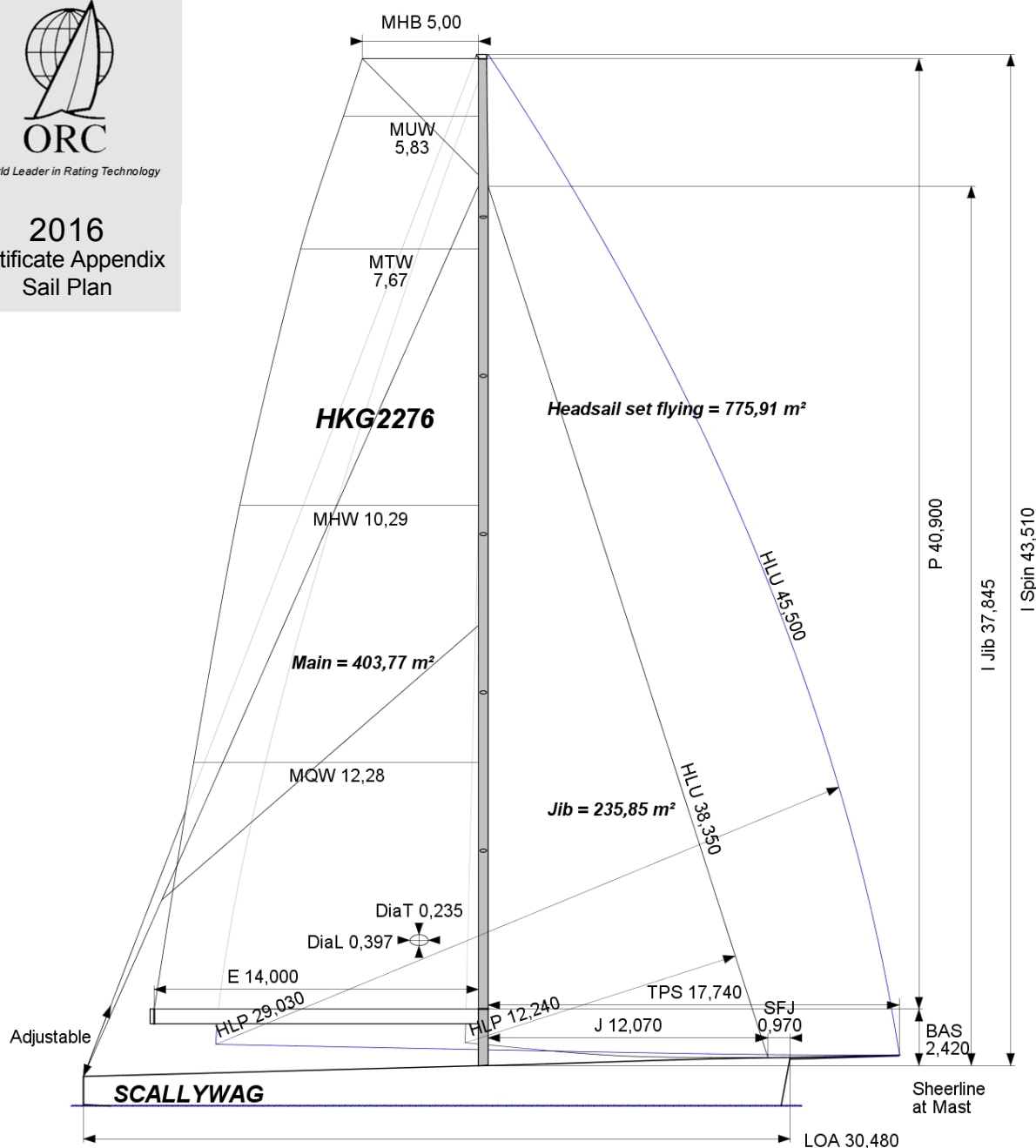
MEASUREMENT INVENTORY				
Measurer Anderson 2015				
Date 30/11/2014				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	STYRE	220hp	
Id	Item	Weight Description		

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
2	Tank FUEL		S/S	240.0	20.20			
1	Tank WATER		Rubber	200.0	13.14			0-0
Id	Item	Weight	Distance	VCG Description				
2	Battery	12.0	17.00	1 X 12v Sealed				
1	Battery	80.0	17.00	2 X 12v Sealed				
Water Ballast Tanks								
Id	Volume	Distance	VCG	TCG	Description			
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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Sail Plan



SAILS INVENTORY																
MANSAIL																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	5.003	5.83	7.67	10.29	12.28	403.77	Mark Fullerton	18/07/2016	DOYLE	Carbon						
1	4.340	5.46	7.11	9.46	11.34	377.79	Anderson	09/12/2013	DOYLE	Carbon						
HEADSAILS																
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	29.03	45.50	241%	775.99		Y	Anderson	11/12/2014	Doyle	Carbon	
1	0.11	3.18	6.41	12.91	19.52	25.78	45.01	214%	582.12		Y	Anderson	14/12/2013	DOYLE	Unknown	
2	0.21	1.72	3.24	6.11	9.04	12.24	38.35	101%	235.87	Y		Anderson	09/12/2013	DOYLE	Carbon	
SYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				