

BOAT Name HOTSPOT Sail Nr M34 11	GPH 554.8	HULL Length Overall 10.320m Maximum Beam 3.008m Displacement 2,776kg Draft 2.532m IMS Reg. Division Performance Dynamic Allowance 0.001% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class M 34 Designer NIEVELL Builder ARCHAMBAULT Series 02/2010, CIN 11 Age 02/2011 Age Allowance 0.292% Offset File M34.OFF - 02/09/2011 14:02:52 Measurement by - 01/09/2011		IMSLS 10.064m VCGD -0.290m Sink 15.39kg/mm RL 9.529m VCGM -0.294m WS 20.19m² LSM0 9.710m Displacement/Length ratio 3.0322



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	543.9			610.5		
Time on Time	1.1031			1.1056		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	612.5	500.7	443.2	786.9	618.3	536.0
Time on Time	1.1020	1.3482	1.5230	0.8578	1.0917	1.2594

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	879.5	743.4	702.1	684.1	666.1	658.5	663.3
52°	578.7	508.0	491.7	484.5	478.4	471.8	470.6
60°	547.6	491.3	476.6	469.0	464.5	454.9	450.5
75°	527.7	478.2	455.0	442.2	434.3	429.4	413.0
90°	531.2	478.4	445.5	419.3	404.8	395.9	385.7
110°	534.3	471.6	446.1	423.0	401.0	372.8	337.7
120°	548.1	472.7	433.7	408.8	387.4	363.7	327.8
135°	616.7	498.8	452.6	406.4	363.2	334.5	295.2
150°	736.9	583.6	501.5	457.2	417.9	374.3	293.3
Run VMG	850.8	673.9	579.4	528.5	482.5	432.2	338.7

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Crew Weight
Default **660kg**
Maximum **555kg**
Minimum* **416kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	572.9	1.0472
Double H.OSN	566.0	1.0601
Non Spin GPH	592.0	1.0135
Non Spin OSN	580.4	1.0337

Selected Courses							
Windward / Leeward	865.2	708.6	640.8	606.3	574.3	545.4	501.0
Circular Random	743.9	610.2	540.2	499.3	472.2	451.8	421.1
Coastal / Long Distance	863.7	668.2	579.7	526.7	489.2	454.2	401.3
Non Spinnaker	810.9	657.4	575.2	526.6	495.3	473.5	443.3

Sails Limitations

Headsails	Spinnakers
5	3

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	42.2°	39.9°	38.6°	37.7°	37.2°	37.2°	38.1°
Beat VMG	4.09	4.84	5.13	5.26	5.40	5.47	5.43
52°	6.22	7.09	7.32	7.43	7.53	7.63	7.65
60°	6.57	7.33	7.55	7.68	7.75	7.91	7.99
75°	6.82	7.53	7.91	8.14	8.29	8.38	8.72
90°	6.78	7.53	8.08	8.59	8.89	9.09	9.33
110°	6.74	7.63	8.07	8.51	8.98	9.66	10.66
120°	6.57	7.62	8.30	8.81	9.29	9.90	10.98
135°	5.84	7.22	7.95	8.86	9.91	10.76	12.20
150°	4.89	6.17	7.18	7.87	8.62	9.62	12.27
Run VMG	4.23	5.34	6.21	6.81	7.46	8.33	10.63
Gybe Angles	142.5°	144.6°	150.4°	150.9°	147.4°	145.0°	145.4°

Class Division Length
CDL = **9.797**

Storm Sails Areas
Heavy Weather Jib **24.14**
Storm Jib (JL=8.70) **8.94**
Storm Trysail **11.61**

Owner

BOAT	
Name HOTSPOT	Sail Nr M34 11
File M3411	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Boom Inclining	LCFD	5.750	
Flotation date 07/05/2019	SG	1.0000	
FFM 1.294	FF 1.301	SFFP	0.514
FAM 0.917	FA 0.921	SAFP	10.284
W1 62.0	PD1 304.3	WD	4.605
W2 62.0	PD2 303.7	GSA	1.0
W3 62.0	PD3 302.3	RSA	1.0
W4 62.0	PD4 299.2	PLM	9000.0
LCF from stem on CL / on sheer		5.758 / 5.932	
Maximum beam station from stem		8.569	
RM Measured		74.4kg-m	
RM Default		83.2kg-m	
Limit of positive stability / Stab.Index		133.0° / 129.6	
Freeboard at mast at 4.130		1.063	



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RIG			
Forestay Tension Aft	Spreaders	2	
Inner Stay None Fitted	Runners	0	
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 13.856	E 4.785	MDT1 0.098	MW 0.198
IG 13.370	J 4.030	MDL1 0.198	GO 0.198
ISP 15.420	SFJ 0.100	MDT2 0.098	BD 0.220
BAS 1.360	SPL 0.000	MDL2 0.150	MWT
FSP 0.070	TPS 5.630	TL 1.650	MCG

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD	0.410	
Type Folding 2 blades	PBW	0.096	
Twin Screw No	PIPA	0.0039	
ST1 0.065	ST3 0.178	ST5	0.316
ST2 0.178	ST4 0.112	EDL	1.770

COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	1.300	1.75	2.41	3.37	4.13	44.73	45.99	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	16.64	15.49	16.07	9.20	9.54	124.08	AS · (SFL + 4·SHW) / 6		

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HBB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.12	0.65	1.20	2.27	3.30	4.34	13.49	30.23	Y		15/02/2019	Carbon	Jib 2019
0.07	0.58	1.10	2.11	3.12	4.18	12.40	26.18	Y		03/07/2014	Kevlar	Light 5
0.09	0.54	1.04	2.04	3.09	4.14	12.56	25.98			13/04/2011	Kevlar	Jib M/H
0.08	0.56	1.07	2.07	3.11	4.18	12.36	25.87	Y		11/07/2014	Kevlar	Med 3
0.07	0.51	0.99	1.93	2.90	3.90	11.23	21.89			29/08/2011	Kevlar	Jib H-1
0.08	0.41	0.76	1.48	2.27	3.09	12.90	19.67	Y		07/07/2014	Polyest	SS
0.08	0.48	0.95	1.81	2.70	3.66	10.67	19.51	Y		11/07/2014	Kevlar	Hvy 2

MEASUREMENT INVENTORY				
Measurer				
Date 07/05/2019				
Comment BODENSEE				
Id	Item	Weight	Distance	VCG Description
4	Tools	4.0	5.60	1x Fireext.
Id	Item	Maker	Model	
06	Engine	Volvo Penta	D1-20F	
Id	Item	Weight Description		

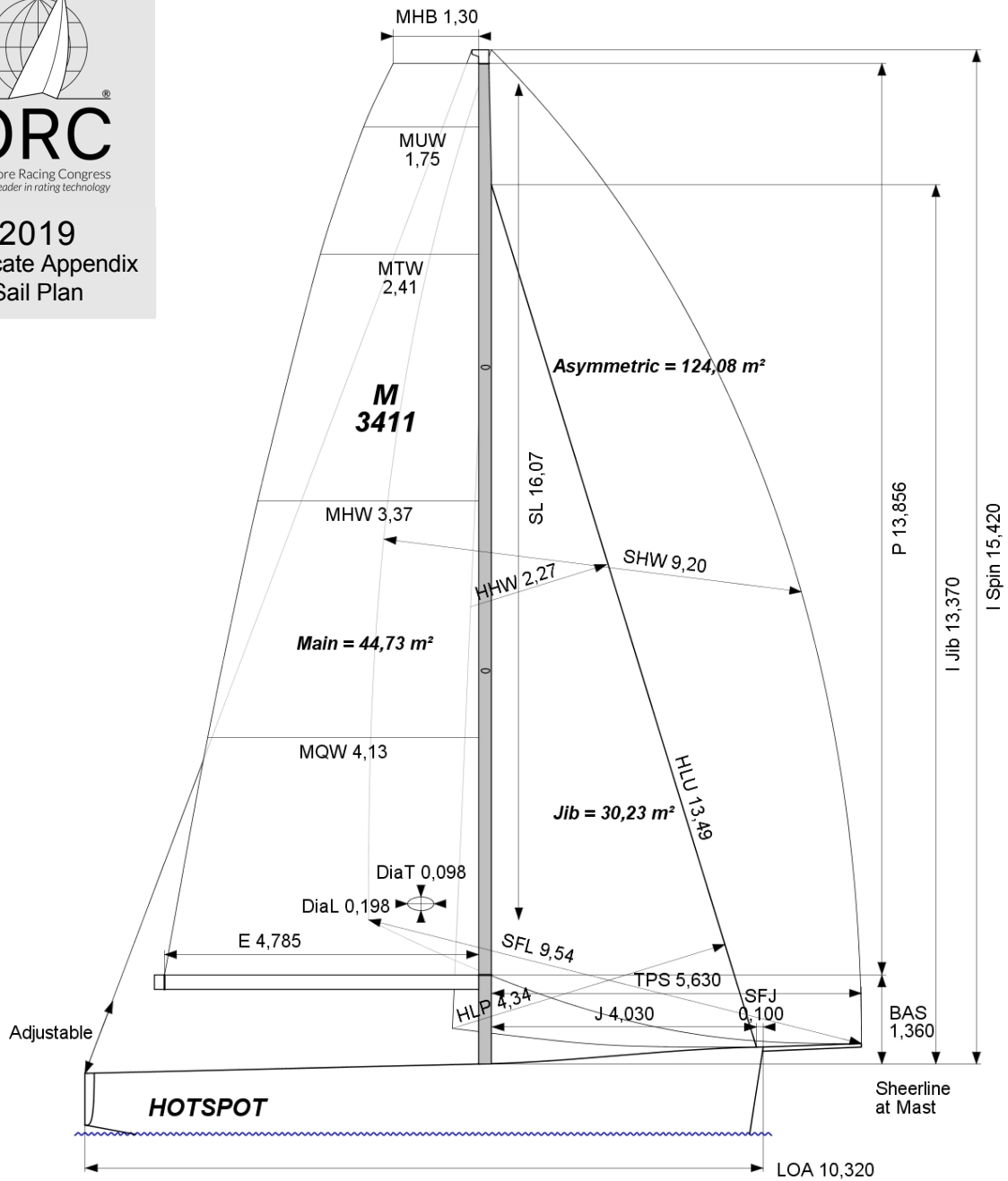
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
07	Tank Fuel		PVC	50.0	6.90		5-0 5I FUEL
Id	Item	Weight	Distance	VCG Description			
03	Battery		5.65	Engine			
04	Battery		5.85	Service			



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Sail Plan



SAILS INVENTORY

MAINSAIL (3)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
0	1.30	1.75	2.41	3.37	4.13	44.69		28/03/2018	North Sails	Carbon	M4
148105	0.21	1.19	1.98	3.07	3.96	40.03		11/07/2014	North Sails	Carbon	M3

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
0	0.12	0.65	1.20	2.27	3.30	4.34	13.49	108%	30.23	Y			15/02/2019	North Sails	Carbon	Jib 2019
0	0.07	0.58	1.10	2.11	3.12	4.18	12.40	104%	26.18	Y			03/07/2014	North Sails	Kevlar	Light 5
14330	0.09	0.54	1.04	2.04	3.09	4.14	12.56	103%	25.98				13/04/2011	North Sails	Kevlar	Jib M/H
148103	0.08	0.56	1.07	2.07	3.11	4.18	12.36	104%	25.87	Y			11/07/2014	North Sails	Kevlar	Med 3
143377	0.07	0.51	0.99	1.93	2.90	3.90	11.23	97%	21.89				29/08/2011	North Sails	Kevlar	Jib H-1
86284	0.08	0.41	0.76	1.48	2.27	3.09	12.90	77%	19.67	Y			07/07/2014	North Sails	Polyest	SS
155086	0.08	0.48	0.95	1.81	2.70	3.66	10.67	91%	19.51	Y			11/07/2014	North Sails	Kevlar	Hvy 2

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (6)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
0	16.64	15.49	16.07	9.20	9.54	124.08	asym		14/02/2019	North Sails	Nylon	A1.5 2019
154931	16.94	14.60	15.77	9.45	9.39	124.04	asym		22/07/2014	North Sails	Nylon	A2-5
148101	16.88	14.55	15.71	9.43	9.34	123.26	asym		11/07/2014	North Sails	Nylon	A2-6
1433..	14.66	13.02	13.84	6.29	7.98	76.45	asym		29/08/2011	North Sails	Nylon	A5-1
153380	14.53	12.87	13.70	6.19	7.88	74.53	asym		11/07/2014	North Sails	Nylon	A5-2